

## TCU VITA

### 1. NAME

Molly Hand Weinburgh

### 2. CONTACT INFORMATION

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817.257.6115

### 3. ACADEMIC BACKGROUND

#### 3A. Education

Ph.D.	Emory University	Educational studies; emphasis in science education
M.A.T.	Emory University	Educational studies; emphasis in biology
B.A.	Agnes Scott College	Biology (with teaching certification)

#### 3B. Professional Certifications

Diploma of Advanced Study in Teaching – 1991

Georgia Teaching Certification (Biology T-5) – 1980 [expired]

Georgia Teaching Certification (Biology/Science T-4) – 1974 [expired]

#### 3C. Present Rank

Piper Professor: College of Education

#### 3D. Year of Appointment

2018	Andrews Chair of Research in Mathematics & Science Education
2015	Affiliate faculty, Women and Gender Studies
2009	Professor
2006	Director, Andrews Institute of Mathematics & Science Education (95% CoE/5% CoSE)
2006	William and Betty Adams Chair of Education
2002	Associate Professor (College of Education/College of Science & Engineering)

#### 3E. Year of Last Promotion

2009 promoted to Professor at TCU

#### 3F. Previous Appointments

2012- 2020	Research Associate, Botanic Research Institute of Texas
2001- 2002	Associate Professor: Graduate Faculty. Department of Early Childhood Education, Georgia State University
1996- 2001	Assistant Professor: Graduate Faculty. Department of Early Childhood Education Georgia State University
1993-1996	Assistant Professor: Clinical. Department of Middle/Secondary Education and Instructional Technology, Georgia State University
1991-1993	Instructor: Clinical. Department of Middle/Secondary Education and Instructional Technology, Georgia State University
1979-1991	Teacher. Marist School, Atlanta, GA
1977-1979	Teacher. Babb Jr. High, Clayton Co., GA
1974-1977	Teacher. Cedar Grove High School, DeKalb Co., GA

#### 3G. Formal Continuing Education

Bridges, TCU 2018, 2019

Code of Conduct, TCU 2018, 2019, 2020, 2021, 2022

Human Subjects Training, TCU, 2012, 2017, 2018, 2021

Common Rule Changes, Cooks Children's Hospital, 2017, 2018, 2020

Human Subjects Training, Cooks Children's Hospital, 2016, 2018, 2020, 2022

EEOC Training, TCU, 2014

FCOI, National Institute of Health, 2015

Child Abuse & Prevention, Alliance for Children, TCU, 2012, 2015, 2018, 2019, 2020, 2021  
Peer Review Training, TCU Human Resources, 2011

### 3H. Honors and Awards

2022 Nomination for Science Teacher Association of Texas Skoog Cup College Faculty  
2020 Award for Outstanding Long-Term Service to ASTE  
2018 Andrews Chair of Mathematics & Science Education  
2017 Nominated ASTE Mentor Award  
2016 Exemplary Faculty Practices Award – Consortium of State Organizations of Texas Teacher Education  
2015 Piper Professor Award – Awarded by the state of Texas  
2011 American Association for the Advancement of Science (AAAS) Fellow  
2011 Chancellor’s Award for Distinguished Achievement as a Creative Teacher and Scholar  
2011 Nomination for Most Inspiring Professor (selected by TCU students)  
2011 *Science and Children* received a Distinguished Achievement Award from the Association of Educational Publishers in the category “one-theme issue” for Sept. 2011’s “Maps and Models.”  
2008 Dean’s Outstanding Research Award for College of Education  
2007 Nomination for the Chancellor’s Distinguished Achievement as a Creative Teacher and Scholar.  
2007 Nomination for Most Inspiring Professor (selected by TCU students)  
2006 William L. & Betty F. Adams Chair of Education  
2006 Director, Andrews Institute of Mathematics, Science & Technology Education  
2000 Woman of the Year-American Biographical Institute  
2000 Phi Beta Delta Honor Society for International Scholars (March 2000 induction)  
2000 International Who’s Who of Professional and Business Women (nominated by Dr. Beth Farokhi)  
2000 Who’s Who among America’s Teachers (nominated by Sherry Pattillo, class ‘99)  
1999 John Shrum for Excellence in Science Teacher Education, Southeastern Association of Educators of Teachers of Science (nominated by David Kumar, Florida Atlantic)  
1999 Chancellor’s Award for Professional Development  
1999 Summer Professional Development in Ghana, West Africa recipient. July-August  
1999 Nominated for National Association of Research in Science Teaching (NARST) Early Career Research Award (nominated by Ann Stucke, North Georgia College)  
1998 Nominated for American Association of University Women (AAUW) Emerging Scholar (nominated by Beth Farokhi, Georgia State University)  
1993 Distinguished Paper Award, Georgia Educational Research Association  
1992 Distinguished Paper Award, Georgia Educational Research Association  
1991 Outstanding Student Paper Award, Georgia Educational Research Association

## **4. TEACHING**

### 4A. Courses Taught

#### A. Courses taught at Texas Christian University

##### *A.1 Undergraduate*

EDUC 20013	Science for Elementary Education
EDUC 30013	Creative Thinking and Problem Solving: Science
EDUC 30014	Science & Mathematical Thinking: Methods of Science
EDSE 30323	Secondary Science Methods
EDMS 40533	Senior Seminar: Science
EDSE 40533	Senior Seminar: Science
EDUC 40870	Directed Study
EDUC 40966	Supervision of Student Teachers
BIOL 10003	Contemporary Issues in Biology
BIOL 10003	Honors: Contemporary Issues in Biology
UNLF 10211	Introduction to University Life

##### *A.2 Graduate*

EDSC 60033	Academic Language in Science
EDSC 60053	Internship in Informal Settings
EDSC 60333	Theory and Pedagogy in Science Teaching
EDSC 60810	Research Seminar: Teacher Continuum

EDSC 60810	Research Seminar: Topics in Science Education
EDUC 60980	Internship in Teaching
EDSC 70013	Colloquia in the Profession of Science Education
EDSC 70033	Scientific Inquiries and Nature of Science
EDSC 70053	History and Philosophy of Science
EDUC 70870	Advanced Directed Study
EDUC 70903	Treaties
EDUC 70943	Apprenticeship in Teaching
EDUC 70960	Apprenticeship in Research
EDUC 70980	Thesis I
EDUC 70990	Thesis II
EDUC 90980	Dissertation I
EDUC 90990	Dissertation II

## B. Courses taught at Georgia State University

### *B.1 Undergraduate*

ECE 3603	Elementary Science Methods
GEO 4920	Elementary Science Education Partners: Geology
BIO 4920	Elementary Science Education Partners: Biology
CHE 4920	Elementary Science Education Partners: Chemistry
PERS 2002	Freshman Learning Community Perspectives
EDSC 447	Middle School Methods in Science
EDSC 329	Middle School Concepts and Issues in Science
EDSC 309	Middle School Issues in Biology
EDSC 457	Secondary School Methods in Science
EDCI 465	Opening School Experience
EDCI 470	Supervision of Student Teachers

### *B.2 Graduate*

ECE 9850	Research Seminar
ECE 9810	Directed Reading
ECE 9000	Research Apprenticeship
ECE 9080	Dissertation I
ECE 9090	Dissertation II
EDSC 7120	Middle School Concepts and Issues in Science

## 4B. Courses Developed at TCU

EDSC 70013	Colloquia in the Profession of Science Education
EDSC 70033	Scientific Inquiries and the Nature of Science
EDSC 60033	Academic Language in Science
EDSC 60053	Internship in Informal Settings
EDSC 60810	Research Seminar: Topics in Science Education
EDSC 60810	Research Seminar: Teacher Continuum
EDSC 60333	Theory and Pedagogy in Science Teaching
EDSC 70033	Scientific Inquiries and the Nature of Science
EDSC 70053	History and Philosophy of Science

## 4C. Other Teaching

### A. Honors Projects

Joanna Baxter – 2017

Rachel Hilton – 2015

### B. McNair Scholar

Ana Benitez – 2022-2024

## 4D. Graduate Theses/Dissertation

### A. Dissertation

#### *A.1 Chair*

Jayne Simlin, in progress [anticipated graduation May 2024]

Megan Clawson, in progress [anticipated graduation December 2023]

Jennifer Tuff, in progress [anticipated graduation December 2023]

Tonie Domino, in progress [anticipated graduation December 2023]

Lara Charles-Kuhlman, in progress [anticipated graduation May 2023]

Heather Thompson, in progress [anticipated graduation May 2023]

Cassandra Cartmill, (November 2022). *“Who am I?” A narrative study of the (in)visible intersectionalities of Asian American women doctoral students in science*

Monica Amyett, (May 2022). *Understanding Mindset and Feedback During Classroom Problem-Solving: A Case Study with Instructional Guide Documents and High School Engineering Teachers*

John Cordell, (May 2021). *A passion for teaching science: A case study of five science teachers.*

Stacy Vasquez, (December 2020). *Moving beyond scientific content knowledge: Investigating the impacts of a multicultural science curriculum.*

Shelly Wu, (December 2020). *A case study of mentoring high school students with care ethics in a science research apprenticeship.*

Daniella Biffi, (January 2020). *Framing effects on attitudes and intentions towards shark meat consumption in Peru.*

Ron Ivey, (February 2019). *An exploration of teacher self-efficacy through the lens of power/knowledge in the elementary science classroom*

Morgan Stewart, (April 2018). *Investigating scientific curiosity in young learners: A multiple case study of a five-, six-, and seven-year-old*

Beau Hartweg, (March 2018) *A case study exploring the experiences of preservice teachers in a live-interactive portable planetarium program*

Ummuhan Malkoc, (March 2017). *Students’ understanding of salt dissolution: Visualizing animation in the chemistry classroom.*

Erin Pearce, (April 2017). *Teaching in a post-standardized tested world: Physics and chemistry teachers’ voices.*

Melissa Patterson, (April 2017). *Coloring, drawing, and water coloring to learn plant structures: Exploring pre-service teachers’ perceptions of botany lessons with art interventions.*

Channa Barrett, (July 2016). *Veiled chameleons: Analyzing urban science teachers’ epistemological and ontological beliefs on caring for urban student’s science literacy.*

Jenesta Nettles, (December 2015). *The underlying relationships between the observed practices as revealed by an exploratory factor analysis of EQUIP ratings.*

Jingjing Ma, (May 2015). *Investigating academic language proficiency and chemistry content knowledge of newcomer English language learners in a public high school classroom.*

Angela Buffington, (April 2015). *Women scientists’ scientific and spiritual ways of knowing.*

Katherine Fogelberg, (November 2014). *Attitudes and beliefs of university science professors toward the discipline of education.*

Deborah Henry, (September 2014) *Exploring hypothetical learning progressions for the chemistry of nitrogen and nuclear processes.*

Kelly Feille (April 2014) *Investigating the professional life history of upper elementary teachers who successfully facilitate effective science teaching both within the classroom and in the outdoor learning environment.*

Valerie Wielard (December 2012) *The effect of a computer program designed with constructivist principles for college non-science majors on understanding photosynthesis and cellular respiration.*

Deborah Flynn (December 2011). *A look at the definition, pedagogy, and evaluation of scientific literacy within the natural science departments at a southwestern university.*

April Sawey (December 2010). *The Lived Experience of In-service Teachers Building a Community of Practice During a Long-term Professional Development.*

Tammy Oliver (December 2009) *Inquiry Experiences and the Development of Science Vocabulary and Concepts with English Language Learners (ELLs)*

Mark Bloom (April 2008). *The Effect of a Professional Development Innovation on Inservice Science Teachers’ Conception of Nature of Science.*

Kathy Smith (August 2000). *Early Childhood Teachers’ Pedagogical Content Knowledge in*

*Mathematics: Quantitative Study.* Georgia State University

*A.2 Dissertation Committee Member*

- Joshua Howton Torres, in progress. Dr. Jo Beth Jimerson, chair.  
Chris Juarez, in progress [Grand Canyon University]. Dr. Hancock-Johnson, chair.  
Yohanis de la Fuentes (November 2018). *Bilingual Preservice Teachers' Perspectives of Implementing Multimodal Translanguaging Pedagogy in Science Instruction.* Dr. Przymus, Chair.  
Joe Ferrara (December 2013). *Teacher concerns associated with the implementation of project/problem based learning.* Texas Christian University. Dr. Thomas, Chair.  
Lisa Bellows (June 2010). *A Case for Place-based Environmental Education: Immersive Field Experiences Utilizing Local Geographic Regions to Bring Awareness to Teachers.* Texas Christian University. Dr. Kelly, chair  
Steven Palko (December 2008). *An Epistemological Framework for Curriculum and Instruction In The 21st century.* Texas Christian University. Dr. Powell, chair.  
Jim Bowen (October 2006). *An Examination of Potential Teacher Behaviors that Encourage Persistence in AP Chemistry and the Idea that Branding Might Offer an Alternative Explanation.* Texas Christian University. Dr. Sacken, chair  
Brenda Brockstein (July 2006). Middle school teachers' response to using hand held computers in teaching science, Georgia State University, Dr. Hannah, chair  
Sarah Bexell (July 2006). *Effect of a Wildlife Conservation Camp Experience in China on Student Knowledge of Animals, Care, Propensity for Environmental Stewardship, and Compassionate Behavior toward Animals.* Georgia State University. Dr. Jarrett, chair  
Terrie Kielborn (May 2001) *Sixth Grade Students' Perceptions of Science and Scientists Following a Field-Based Science Investigation.* University of Florida. Dr. Davis, chair.  
Lucinda Gibson (April 2000). *Phases of Learning during Action Learning Experiences: An Exploratory Study.* Georgia State University. Dr. Willis, chair  
Marie Borim (November 1999). *Factors Influencing Inservice Teachers' Gender Equity Awareness: A qualitative Study.* Georgia State University. Dr. Lakes, chair  
Ann Stucke (July 1999). *An Interpretative Study of Elementary School Teachers' Conceptions of the Nature of Inquiry and of their roles While Participating in an Inquiry Based Science Curriculum.* Georgia State University. Dr. Lucy, chair  
Susan Green (April 1999). *Women's Mid-Life Career Change: The Case of Episcopal Women Priests.* Georgia State University. Dr. Willis, chair  
Catherine Carter (November 1998). *A Case Study of Meaningful Learning in a Collaborative Concept Mapping Strategy as a Preparation for a College Biology Laboratory.* Georgia State University. Dr. Hassard, chair  
Joyce Lockwood (September 1997). *The Effects of College Students' Gender and Ethnicity on Occupational Choice of Gender-Dominated Occupations.* Georgia State University. Dr. Willis, chair  
Priscilla Golley (July 1997). *An Investigation of Teachers' Perceptions and Implementation of Interdisciplinary Mathematics and Science.* Georgia State University. Dr. Lucy, chair  
Carol White (October 1996). *Voices of Collegiate Women: Influences that Impact Women Silence in an Undergraduate Classroom.* Georgia State University. Dr. Willis, chair

*A.3 Dissertation External Reader*

- Hanadi Chatila – *Students' Attitudes Toward and Achievement in Science: A Cross-Cultural Approach.* Maquarie University, Australian Centre for Educational Studies, (Invited as outside examiner). Defense – June 2005. Dr. Cooney, Chair  
Warren Rich – *Design Attributes of Education Computer Software for Optimizing Girls' Participation in Education Game Playing.* Curtin University of Technology (Perth, WA). (Invited as outside examiner). Defense – Spring 2005. Dr. Taylor, Chair

B. Master Thesis

*B.1 Chair*

- Molly Marek (Fall 2021) *Scientific analogy-ing: A collaborative and critical approach to*

(re)generating analogical models in biology.

Marie Lamkin (Spring 2015) *Problem-based learning effects in 9<sup>th</sup> grade biology*.

David Blasingame (Spring 2015). *An evaluation of State Standards: Addressing the theory of evolution*.

Maegan Admire (Spring 2013) – *The effects of incorporating classroom pets into the fourth grade science curriculum*.

Teresa Powers (Fall 2012) – “Some days it’s good and some it’s hard”: *The experience of faculty at Native American boarding schools*.

Morgan Stewart (Summer 2012) – *Using a schoolyard garden to increase language acquisition and conceptual understanding of science in elementary ELL students*.

Kristen Payne (May 2012) – *A collective case study: Teacher opinions of their students’ engagement in the outdoor classroom*.

### B.2 Committee Member

Ramya Enuga (April 2016). *Challenges pre-service science teachers face when implementing a 5E inquiry model of instruction*. Dr. Hokayem, chair.

Sarah Boukhari (April 2012) *Would You Give a Kindergartener an iPad2?* Dr. Reynolds, chair.

Megan Adams, (October 2010). *Goethe’s Delicate Empiricism, Plant Growth and Young Children*. Dr. Reynolds, chair.

Robert Malloy, (July 2010) *Pre-service Teachers’ Concept of Nature of Science*. Dr. Bloom, chair

Suzanne Reid, (February 2009) *Children and Delicate Empiricism*. Dr. Reynolds, chair

Anne Schrubba, (April 2008). *Evaluation of Student Attitude toward Science and Self-Efficacy in a Non-majors College Biology Course*. Dr. Kelly, chair

Timothy Hayden (December 2007) *The Miseducation of America: An Examination of the Educational Experiences of Students of Color*. Dr. Reynolds, chair

Paul Vinson, (November 2006). *The Effect of Orientation on Learning Experiences in Science Centers*. Dr. Reynolds, chair

Karen Martin, (April 2003). *Perceptions, Attitudes, and Achievement in a Fifth Grade Hispanic Science Classroom*. Tarleton State University Dr. Smith, chair

Jamia Jester (April 2000). *Changing the Culture of the Classroom: A Study of the Elementary Science Education Partners (ESEP) Program*. Georgia State University. Dr. Kozaitis, chair.

### B.3. Treaties

Brook Salazar (December 2019). *2019-2020 Pre-AP Biology DNA through Protein Synthesis Curriculum Unit*

Jacqueline Navarrete (May 2019). *Academic science language and its difficulties*

Jennifer Tuff (May 2019). *Are digital literacy programs delivering on promised benefits in their target classrooms?*

## 5. RESEARCH AND CREATIVE ACTIVITY

### 5A. Refereed publications in print

#### A.1 Peer Refereed Research Journal Articles (\* student)

Price, C.\*, Biffi, D., Weinburgh, M. H., Smith, K. H., Silva, C., Amyett, M.\*, & Domino, A.\* (2023).

Emergent multilingual learners use of multimodal discursive practices in science journals to communicate ‘doing’ and ‘learning’ on erosion. *Electronic Journal of Research in Science and Mathematics Education*.

Weinburgh, M. H. (2022). “Students were just sticky notes on jamboard”: A first-year biology teacher’s story of 2020-2021. *School Science and Mathematics Journal*122(5), 235-246. DOI:10.1111/ssm.12539

Biffi, D., Richards, A. S., & Weinburgh, M. H. (2022). Framing effects on attitudes and intentions towards shark meat consumption in Peru. *Frontiers in Conservation Science*. 3:807252. Doi: 10.3389/foosc.2022.807252

Feille, K., Stewart, M., Nettles, J., & Weinburgh, M. H. (2021). Like the kids do it: Engineering design in middle-school science teacher professional development. *Electronic Journal of Science and Mathematics Education*, 25(1), 5-19.

- Weinburgh, M. H., Silva, C., & Smith, K. H. (2021). Multimodality and the 5R Instructional Model: Biology teachers learning to engage emergent multilingual learners. *Journal of Science Teachers Education*. 32(4), 378-399. DOI: 10.1080/1046560X.2020.1830503
- Biffi, D., Lopez-Mobilia, A., Williams, D., Chumchal, M., & Weinburgh, M. H. (2020). Mislabelling and high mercury content hampers the efforts of market-based seafood initiatives in Peru. *Scientific Reports*.
- Pearce, E. \*, Stewart, M. \*, Malkoc, U. \*, Ivey, R. \*, & Weinburgh, M. H. (2020). Utilizing a dynamic model of food chains to enhance English language learners' science knowledge and language construction. *International Journal of Science & Math Education*, 18, 887-901  
doi.org/10.1007/s10763-019-10004-5
- Weinburgh, M. H. (2020). Emerging, Existing, and Imagined Identities: A Case of Mid-Career and Late-Career Secondary Science Teacher Departure/Dropout. *Journal of Science Teachers Education*, 31(6), 654-674.
- Pearce, E. \*, Hartweg, B. \*, de la Fuentes, Y. \*, & Weinburgh, M. H. (2019). Peer-Coaching as a Component of a Professional Development Model for Biology Teachers. *School Science and Mathematics* 119(3), 117-126.
- Wu, S. \*, Silveus, A. \*, Vasquez, S. \*, Biffi, D. \*, Silva, C. & Weinburgh, M.H. (2019). Supporting ELL's use of Hybrid Language and Argumentation during Science Instruction. *Journal of Science Teacher Education*, 30(1), 24-43. DOI: 10.1080/1046560X.2018.1529520
- Weinburgh, M. H. & Kamen, M. (2019). A brief history of the Electronic Journal of Science education. *Electronic Journal of Science Education* 23(5), 1-3.
- Weinburgh, M. H., Stewart, M. \*, & Silva, C. (2018). Manual-technical operations: A critical examination of one mode of Lemke's hybrid language. *Electronic Journal of Science Education*. 22(4), 36-49.
- Feille, K., Nettles, J. & Weinburgh, M. H. (2018) Silhouettes of development: A tool for understanding the needs and growth of teachers. *Journal of Science Teacher Education*. 29(1) 30-45.
- Hartweg, B. \*, Biffi, D. \*, de la Fuentes, Y. \*, Malkoc, U. \*, Patterson, M. \*, & Weinburgh, M. H. (2017). Peruvian Food Chain Jenga: Learning ecosystems with an interactive model. *School Science and Mathematics*. 117(6), 229-238.
- Oliveira, A. & Weinburgh, M. H. (2016). Coming to Terms with Language: Editorial for the EJSE Special Issue on Science and Language. *Electronic Journal of Science Education*, 20(3), 1-10.
- Melville, W., Weinburgh, M. H., & Bartley, A., Jones, D. \*, Lampo, A., Lower, J. & Sacevich, N. (2016). The chair's dispositions as virtues. *Teaching and Teacher Education*, 57, 109-117.
- Biffi, D. \*, Hartweg, B. \*, de la Fuente, Y. \*, Patterson, M. \*, Stewart, M. \*, Simanek, E., & Weinburgh, M. H. (2016). Developing an Educational Tool to Model Food Chains. *Electronic Journal of Science Education*, 20(1), 40 – 53.
- Faggella-Luby, M., Griffith, R., Silva, C. & Weinburgh, M. H. (2016) Assessing Ells' Reading comprehension and Science Language Development. *Electronic Journal of Science Education*, 20(3), 40-53.
- Huckaby, M. F. & Weinburgh, M. H. (2015). "Spark like a dialectic": Difference Inbetween Feminisms/Duoethnography. *International Review of Qualitative Research*. 8(1), 49-67.
- Weinburgh, M. H., Silva, S., Smith, K., Groulx, J., & Nettles, J. \*. (2014). The intersection of inquiry-based science and language: Preparing teachers for ELL classrooms. *Journal of Science Teacher Education* 25(5), 519-542. DOI 10.1007/s10972-014-9389-9
- Griffith, R., Silva, C., & Weinburgh, M. H. (2014). Language and literacy brokering: Becoming "linguisticians" through parent interviews. *Language Arts*. 91(5)340-351.
- Melville, W., Hardy, I., Weinburgh, M. H., & Bartley, A. (2014). School leadership, subject departments and the politics of change: The need for educational alignment and autonomy. *Cogent Education*. 1:983587. DOI 10.1080/2331186X.2014.983587
- Westmoreland, S., Garcia, J., Rich, R. & Weinburgh, M. H. (2013, August). Shifting Lab Activity. *The STATellite*. 57(3).
- Silva, C., Weinburgh, M. H. & Smith, K. H. (2013). Not just good science teaching: supporting academic language development. *Voices in the Middle*. 20(3), 34-42
- Melville, W., Bartley, A. & Weinburgh, M. H. (2012). Change forces: Implementing change in a secondary school for the common good. *Canadian Journal of Educational Administration & Policy*, 133, 1-26.
- Silva, C., Weinburgh, M.H., Smith, K., Malloy, R. \* & Marshall, J\*. (2012). Toward Integration: A Model

- of Science and Literacy. *Childhood Education*. 88(2). 91-95.
- Holden, M., Groulx, J., Bloom, M. & Weinburgh, M. H. (2011). Assessing efficacy through an outdoor professional development experience for inservice science teachers. *Electronic Journal of Science Education*. 15(2) 1-25.
- Bloom, M.A., Sawey, A. \*, Holden, M.E. \*, & Weinburgh, M.H. (Winter, 2009). To What Degree Can Explicit Classroom Interventions Change pre-Service Elementary Teachers' Conceptions of Nature of Science? *Council for Elementary Science International* 40(02), 27-39.
- Silva, C., Weinburgh, M. H., Smith, K. H., Barreto, G., & Gabel, J. (Winter, 2008/2009). Partnering to Develop Academic Language for English Language Learners in Mathematics and Science. *Childhood Education*. 85(2), 107-112.
- Weinburgh, M. H. (2008). How middle childhood in-service teacher view the scientific method. *California Journal of Science Education*. 9(1), 87-102.
- Weinburgh, M. H., Smith, K. H., & Clark, J. (2008). Using the reflective teaching model in long-term professional development: a case study of a second year urban elementary teacher. *Electronic Journal of Science Education*. 12(2), 1-20.
- Weinburgh, M. H. (2008). The Effect of Tenebrio obscurus on Elementary Teachers' Content Knowledge, Attitudes, and Self-efficacy. *Journal of Science Teacher Education*. 18(6) 801-816.
- Collier, S., Weinburgh, M. H., & Rivera, M. (2004). Infusing technology skills into a teacher education program: Change in student's personal knowledge about and use of technology. *Journal of Technology & Teacher Education*. 12(3), 447-468.
- Weinburgh, M. H., Collier, S., & Rivera, M. (2003). Preparing elementary teachers: Infusing technology as recommended by the international society for technology in education's national educational technology standards for teachers. *TechTrends*. 47(4), 43-46.
- Weinburgh, M. H. (2003). Confronting and changing middle school teachers' beliefs about scientific methodology. *School Science and Mathematics*, 103(5), 222-232.
- Weinburgh, M. H. (2003). Review of Equity and Science Education Reform. *Science Education*, 87(2), 301-302.
- Weinburgh, M. H. (2003). The effects of systemic reform on Urban, African-American fifth grade students' attitudes toward science. *Journal of Women and Minorities in Science and Engineering*. 9(1), 53-72.
- Weinburgh, M. H. (Fall 2000). Gender, ethnicity, and grade level as predictors of middle school students' attitudes toward science. *Current Issues in Middle Level Education*. 72-84.
- Weinburgh, M. H. & Steele, D. (2000). The modified Attitudes Toward Science Inventory: Developing an instrument to be used with fifth grade urban students. *Journal of Women and Minorities in Science and Engineering*, 6(1), 87-94.
- Weinburgh, M. H. (1998). Middle school students' grade expectation and preferred topics in science by gender and ethnicity. *Current Issues in Middle Level Education*, 7(2), 74-88.
- Weinburgh, M. H., Smith, L. & Smith, K. H. (1997, Oct.). Preparing early childhood education majors to infuse technology into the teaching of mathematics and science. *TechTrends*, 42(5), 43-45.
- Weinburgh, M. H. (1996). T.R.E.E.: Co-reform in professional development. *UPDATE*, 12(14), 10-11.
- Weinburgh, M. H. (1995, Spring). Preparing gender inclusive science teachers: Suggestions from the literature. *Journal of Science Teacher Education*, 6(5). 102-107.
- Weinburgh, M. H. (1995). Gender differences in student attitudes toward science: A meta-analysis of the literature from 1970-1991. *Journal of Research in Science Teaching*, 32(4), 387-398.
- Weinburgh, M. H., Franklin, B., & Franklin, C. (1994, Spring). Gender equity in science classroom: What can be done?. *Current Issues in Middle Level Education*, 3(1), 11-19.
- Weinburgh, M. H. & Engelhard, G. (1994). Gender, prior academic achievement, and belief as predictors of student attitudes toward biology laboratory instruction. *School Science and Mathematics*, 94(3), 118-123.
- A.2 Peer Refereed Teacher Journal Articles (\* student)*
- Weinburgh, M. H., Gutierrez, N., & Silva, C. (Sept/Oct. 2022). Modifying instruction on plate tectonics using the 5E learning cycle and 5R instructional model with culturally and linguistically diverse students. *Science Scope*
- Feille, K., Nettles, J. & Weinburgh, M. H. (2017). Water, water, everywhere! But is it clean to drink? Applying Engineering Design to the Challenge of Water Purification. *Science Scope*. 40(6), 50-56.



- Biffi, D\*, Hartweg, B\*, Stewart, M\*, Patterson, M\*, Simanek, E., & Weinburgh, M.H. (2016). Engaging students with dynamic models: Peruvian food chain Jenga. *Science Scope*, 39(5), 51-57.
- Weinburgh, M.H., Silva, C., Malloy, R\*, Marshall, J\*, & Smith, K. (2012). A Science Lesson or Language Lesson? Using the 5Rs. *Science & Children*. 49(9) 72-76.
- Weinburgh, M. H. & Silva, C. (2011). Math, science, and models. *Science & Children*. 48(10). 38-42.
- Weinburgh, M. H. (2004). Teaching photosynthesis: More than a lecture but less than a lab. *Science Scope*. 27(9), 15-17.
- Weinburgh, M. H. (2003). Good Science Instruction: A Leg (or Three) to Stand On. *Science & Children*. 40(6), 28-30.
- Weinburgh, M. H. (1994, Fall). Gender equity in science classrooms: Recommendations for teachers. *The Georgia Science Teacher*, 36(1) 7-8.

#### A.3 Peer Refereed Edited Books and Authored Books

- Weinburgh, M. H., Silva, C., & Smith, K. H. (2019). *Supporting Emergent Learners in Science: Grades 6-12*. Arlington, VA: NSTA Press.
- Oliveira, A. & Weinburgh, M. H. (Eds.) (2017). *Science Teacher Preparation in Content-Based Second Language Acquisition*. London: Springer
- Wiseman, K. & Weinburgh, M. H. (Eds.) (2009). *Becoming and Being: Women's Experience in Leadership in K-16 Science Education Communities*. Monograph sponsored by the Association for Science Teacher Education. London: Springer

#### A.4 Peer Refereed Chapters in Books

- Popejoy, K., Hammond, T. C., Malone, D., Morrison, J., Firestone, J., Bodzin, A. M., Leeson, D., Brown, K., Alexander, C., & Weinburgh, M. H. (accepted 06.20.2022) Integrating ArcGIS Digital Technologies for Learning: Socio-Environmental Science Investigations to Promote Geospatial Thinking. In S. Asim, J. Ellis, D. Slykhuis, & J. Trumble (Eds.). *Theoretical and Practical Teaching Strategies for K-12 Science Education in the Digital Age*. IGI Global
- Carnes, G. N. & Weinburgh, M. E. (2022). Multicultural science education for middle-level teacher candidates: Examining the past while prepared for the future. In M. Atwater (Ed). *International Handbook of Multicultural Education*. (pp.1-20 ). Online  
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#### *A.5 Peer Refereed Proceedings*

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## 5B. Non-Refereed Research/Columns

### *B.1. Non-Refereed Textbooks/Manuals*

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- Smith, K. H. & Weinburgh, M. H. (1997). A working handbook for successful teaching in the early childhood science classroom. Oklahoma City: Custom Academic Publishing Company.
- Weinburgh, M. H. (1995). Successful science teaching to middle childhood students: A methods manual. Atlanta, GA: Georgia State University.
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### *B.2 Research/Project Reports*

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- Weinburgh, M. H., Alanis, N., Clawson, M., Titus, A., & Wallace, S. (2021). Chemistry Boot Camp. Report #122921
- Anderson, S., Ezzani, M., Hernandez, F., Huddleston, G., Lacina, J., & Weinburgh, M. H. (2021). Rainwater Foundation community partners: A snapshot of stakeholder COVID-19 experiences. Rainwater Charitable Foundation Project #23764. Report #080121
- Alexander, C., & Weinburgh, M. H. (2021) Collaborative Research: Socio-Environmental Science Investigations: Exploring Alternative New Directions. Year 1 2020-2021 National Science Foundation. #1949393
- Weinburgh, M.H. & Mitrano, M. (2020). Year 4 Report to Bryant Bridge of Hope.
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- Weinburgh, M. H. (2016). Teacher Quality Grant 532 - 2014-2016 cycle – Final Report to the Texas Higher Education Coordinating Board.
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- Weinburgh, M. H. (2015). THECB's Report to Texas Commissioner of Education – Teacher Quality Grants 24289 and 24292
- Weinburgh, M. H. (2015). THECB – Teacher Quality Grant 24288 - 2012-2014 cycle – Mid-point Report
- Weinburgh, M. H. & Smith, P. (2015). Technical Report 2014-2015
- Weinburgh, M. H. (2014). THECB – Teacher Quality Grant 502 - 2012-2014 cycle – Final Report
- Weinburgh, M. H. (2014). Teacher Quality Standard State Evaluation 24289 – Progress report to THECB committee [with presentation in Austin]

- Weinburgh, M. H. & Smith, P. (2014). Teacher Quality Standard State Evaluation 24289 – Final Report to the Texas Higher Education Coordinating Board.
- Weinburgh, M. H. & Smith, P. (2014). Teacher Quality Standard State Evaluation 24292 – First Progress report to the Texas Higher Education Coordinating Board.
- Weinburgh, M. H. (2014). THECB – Teacher Quality Grant 24296 – Interim Progress Report.
- Weinburgh, M. H. (2013). Earth/Space. Grant 502. Midpoint Report to the Texas Higher Education Coordinating Board.
- Weinburgh, M. H. (2013). Teacher Quality Standard State Evaluation 2012-2013 cycle – End of Year 1 Report December 31, 2013. Report to the Texas Higher Education Coordinating Board.
- Weinburgh, M. H. (2012). An examination of the Professional Growth of Teachers Participating in a Professional Development Program (cycle 2009-2012). Report to the Texas Higher Education Coordinating Board. Grant # 05829.
- Weinburgh, M. H. (2011). Environmental Systems Emphasizing Sustainable Education. Report to the Texas Higher Education Coordinating Board. Grant # 469.
- Weinburgh, M. H. (2009). Developing PCK in Environmental Education. Report to the Texas Higher Education Coordinating Board. Grant # 406.
- Weinburgh, M.H. (2009). Elementary teachers developing PCK in Outdoor Ed – Final Report to the Texas Higher Education Coordinating Board. Grant # 411.
- Weinburgh, M.H. (2009). MSL Summer School Grant – Report to JP Morgan Chase. November 2009.
- Weinburgh, M. H. (2008). Increasing PKC and NOS Using Contemporary Issues in Biology. Report to the Texas Higher Education Coordinating Board. Grant # 322.
- Weinburgh, M. H. (2007). Increasing Content Knowledge and Pedagogical Skills Using Contemporary Issues in Biology. Report to the Dana Center. Grant # 270.
- Weinburgh, M. H. (2007). Developing Content and Pedagogy for Earth/Space Science. Report to Dana Center. Grant #278.
- Weinburgh, M. H. (2006). Professional Development for Biology Teachers: Contemporary Issues. Report to Texas Higher Education Coordinating Board. Grant #178.
- Weinburgh, M. H. (2005). Biology Module: Contemporary Issues in Biology. Report to Texas Higher Education Coordinating Board. Grant # 000.
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- Weinburgh, M. H. (2003). Bransom-Hommel Water Project. Report to Texas Higher Education Coordinating Board.
- Hart, L., & Weinburgh, M. H. (2003). The Decatur Elementary Math/Science Project: Enhancing Teacher Change (Year 3), Report to Eisenhower Higher Education Funds.
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- DeHaan, R., Allwood, V., Weinburgh, M., and Hall, B. (2001). Annual Progress Report: Elementary Science Education Partners. Report to National Science Foundation. Grant #ESI-9552864.
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### *B.3 Column not Refereed*

- Weinburgh, M. H. (February 22, 2013) Huffington Post. Blog. *Women in Math, Science and Medicine: Still Work to be Done*
- Bloom, M., Weinburgh, M. H., & Danell, P. (2008, Spring). What's good for the teacher may not be good for the student. *Childhood Education International: Focus on Middle School*. 20(3), 4-8.
- Bloom, M. & Weinburgh, M. H. (2007, Fall). Why every teacher should know NOS. *Childhood Education International: Focus on Middle School*, 20(2), 1-4.

### 5C. Materials accepted

N/A

### 5D. Presentations

#### A. International

- Popejoy, K., Hammond, T., Bodzin, A., Morrison, J., & Weinburgh, M. (March, 2022). Advancing Teachers' Geospatial TPACK: Three Universities' Professional Development Initiatives. Paper presented at the annual meeting of NARST, Vancouver, BC.
- Brown, K. A., Weinburgh, M.H., & Alexander, B (2022 January). Professional development during COVID-19: Using socio-environmental science investigations to promote geospatial thinking. Paper set presented at the virtual annual meeting of the Association for Science Teacher Education.
- Thompson, H. & Weinburgh, M., (2022 January). Pedagogical practices: Using the 5R Instructional Model and multimodal language to scaffold entry into a community of practice. Paper set presented at the virtual annual meeting of the Association for Science Teacher Education.
- Weinburgh, M.H., Biffi, D., & Silva, C. (2022 January). Situated cognition and socio-cultural constructivism: Science teacher instructional intentions and science learning by a emergent multilingual learner. Paper set presented at the virtual annual meeting of the Association for Science Teacher Education.
- Biffi, D., Richards, A.S, & Weinburgh, M. (2021 November). Framing effects on attitudes and intentions towards shark meat consumption in Peru. Society for Conservation Biology, Conservation Marketing Virtual Conference (ConsMark2021).
- Biffi, D., Richards, A.S, & Weinburgh, M. (October 2021). Framing effects on attitudes and intentions towards shark meat consumption in Peru. Paper presented at the Society for Conservation Biology, Conservation Marketing Virtual Conference.
- Weinburgh, M. H. (2021 August) *The 5R Instructional Model: Supporting Emergent Multilingual Students*. Workshop for Improving Science Education in Kazakhstan: An online professional development program for high school teachers. Funded by NARST.
- Weinburgh, M. H. (2021 July). *Improving instruction: 5R Instructional Model*. Workshop presented for the Hanoi, Vietnam science teachers.
- Weinburgh, M. H. (2021 April). *Movement: Disruptive or appropriate in science labs*. Paper presented at the virtual annual meeting of NARST.
- Weinburgh, M., Alexander, C., & Brown, K. (January 2021). Synchronous or asynchronous: Learning geospatial thinking and reasoning through ZOOM. Paper set presented at the virtual annual meeting of the International Consortium for Research in Science & Mathematics Education. Online
- Weinburgh, M. H., Silva, C., Smith, K. H., Biffi, D., Price, C., Amyett, M., & Domino, A. (2021 January). *What I Did-What I Learned: Discursive resources students use to communicate 'practice' and 'content'*. Paper set presented at the virtual annual meeting of the Association for Science Teacher Education.
- Thompson, H., Cordell, J., & Weinburgh, M. H. (2020 January). *Investigating African-American and Latinx Discourse Practices in Joining a Chemistry Lab Community*. Paper presented at the annual meeting of the Association for Science Teacher Education. San Antonio, TX.
- Weinburgh, M. H. (2020 January). *Secondary Science Teacher Dropout: A Case Study*. Paper presented at the annual meeting of the Association for Science Teacher Education. San Antonio, TX.
- Biffi, D., Lopez-Mobilia, A., Kelez, S., Williams, D.A., Chumchal, M.M., & Weinburgh, M.H. (2019 September). *Mislabeling and mercury content in seafood in Peru. 1st Peruvian Shark Symposium. Lima, Peru*. 14th International Conference on Mercury as a Global Pollutant. Krakow, Poland.



- Weinburgh, M. H. (2019 April). *Movement expressiveness as an enactment of engagement and learning: A case study within a chemistry lab*. Paper presented at the annual meeting of NARST, Baltimore, MD.
- Gayne, G., Edmondson, W. E., Luft, J. A., Bell, R., Reiser, B. J., Whitworth, B., Meser, F. & Weinburgh, M.H. (2019 April). *Early Career Faculty Forum*. Invited forum at NARST, Baltimore, MD.
- Biffi, D., Lopez-Mobilia, A., Kelez, S., Williams, D., Chumchal, M.M., & Weinburgh, M. H. (2019 March). *Mislabeling and mercury content in seafood in Peru*. Paper presented at the First Latin American Congress of Sharks, Rays, and Chimaeras, Playa del Carmen, Mexico
- Weinburgh, M.H., & Silva, C. (2019 January). *A case study of a 6<sup>th</sup> grade science teacher's implementation of the 5R Instructional Model*. Paper presented at the annual meeting of the Association for Science Teacher Education. Savannah, GA.
- Weinburgh, M.H., Silva, C., Smith, K. H., & Gutierrez, N. (2019 March). *Using the 5R Instructional Model to Enhance Learning for Emergent Multilingual Learners*. Paper presented at the ICRSME, San Jose, Costa Rica.
- Weinburgh, M.H. (2018 July). *Erosion: Using inquiry science as access for students with special needs*. University of Hanoi's Special Education Conference, Hanoi, Vietnam.
- Biffi, D., Lopez-Mobilia, A., Kelez, S., Williams, D., Chumchal, M.M., & Weinburgh, M. H. (2018 June). *Mislabeling and mercury content in seafood in Peru*. Paper presented at the 5<sup>th</sup> International marine Conservation Congress, Kuching, Sarawak Malaysia.
- Adams, J., Bayne, G., Bell, R., Butler, M., Luft, J., Otulaja, F. & Weinburgh, M.H., (2018 March) *Early Career Faculty Forum*. Panel presented at the annual meeting of NARST, Atlanta, GA.
- Weinburgh, M.H., Silva, C., & Smith, K.H. (2018 January). *School/University partnerships focusing on science for ELLs*. Paper presented at the annual meeting of the Association for Science Teacher Education. Baltimore, MD.
- De la Fuente, Y., Vasquez, S., Biffi, D., & Weinburgh, M. H. (2018 January). *An ELL's journey into a science speech community*. Paper presented at the annual meeting of the Association for Science Teacher Education. Baltimore, MD.
- Wu, S., Vasquez, S., Silveus, A., Biffi, D., & Weinburgh, M. H. (2018 January). *How ELLs use the hybrid language of science to construct scientific argumentation*. Paper presented at the annual meeting of the Association for Science Teacher Education. Baltimore, MD.
- Biffi, D.\*, López-Mobilia, A., & Weinburgh, M. H. (2017 September). *Attitudes and knowledge about the marine ecosystem: An exploratory study in northern Peru*. Paper presented at the annual meeting of the World Environmental Education Congress, Vancouver, Canada.
- Biffi, D., Lopez-Mobilia, A., Williams, D.A., Chumchal, M. M. & Weinburgh, M. (2017 October) *Mercury content and mislabeling in sharks from markets in Lima and Tumbes*. 1<sup>st</sup> Peruvian Shark Symposium. Lima, Peru.
- Weinburgh, M., Silva, C. & Smith, K. (2017 January). *Professional Development: What attracts biology teachers and what they value*. Paper presented at the annual meeting of the Association for Science Teacher Education. De Moines, Iowa.
- Naizer, G. & Weinburgh, M. H. (2017 January). *Our journey of understanding through Lesson Study*. Poster in invited session ASTE Book Series in Science Education – Enhancing Professional Knowledge of Pre-service Science Teacher Education by Self-study Research presented at the annual meeting of the Association for Science Teacher Education, De Moines, Iowa.
- Weinburgh, M., Silva, C. & Smith, K. (2016 January). *Inservice Science Teacher Needs: Integration of Mathematics and Language*. Paper presented at the annual meeting of the Association for Science Teacher Education. Reno, NV.
- Hartweg, B., Biffi, D., de la Fuente, Y., Stewart, M., Patterson, M., & Weinburgh, M. (2016 January). *Engaging Students with Dynamic Models: Peruvian Food Chain Jenga*. Paper presented at the annual meeting of the Association for Science Teacher Education. Reno, NV.
- Silva, C. & Weinburgh, M. (2016 April). *Acquiring the discourse of the science classroom*. Annual meeting of European Teacher Education Network. Setubal, Portugal
- Oliveria, A. & Weinburgh, M. (2016 May) *Communication Models of ELL Science Instruction*. Paper presented at the annual meeting of the Canadian Society for the Study of Education, Calgary, CA.
- Weinburgh, M., & Stewart, M. (2015 October) *Hybrid language of science: What is the manual-technical part?* Paper presented at the annual meeting of School Science & Mathematics Association. Oklahoma City, OK.



- Smith, K.H., Silva, C., Weinburgh, M.H., & Smith, N. (2015 March). *Emerging Bilinguals: Developing a Rubric for Communicating in Mathematics* Paper presented at the annual meeting of RCML. Las Vegas.
- Weinburgh, M., Silva, C. & Smith, K. (2015 January). *Developing conceptual understanding and academic language for English language learners*. Paper presented at the annual meeting of the Association for Science Teacher Education. Portland, OR.
- Bartley, A., Weinburgh, M., Jones, D., Campbell, H., Lampo, A., & Sacevich, N. (2015 January). *Triumphs and tensions: What we have learned from four years of single sex classes for at-risk boys*. Paper presented at the annual meeting of the Association for Science Teacher Education. Portland, OR.
- Nettles, J., Feille, K. & Weinburgh, M. (2015 January) *Reflection writing: A tool for understanding teacher's perspectives on long term professional development*. Paper presented at the annual meeting of the Association for Science Teacher Education. Portland, OR.
- Smith, K.H., Silva, C., Weinburgh, M. H. & Smith, N. (2014, March) *As mathematicians, how do English language learners communicate mathematically?* Paper presented at the annual meeting of the RCML, San Antonio, TX.
- Silva, C., Weinburgh, M. H., & Smith, K. (2014, January) *Natural language – reading writing, speaking, listening - Paper 1*. Paper set (*Interrogating the hybrid language of science in ELL classrooms.*) presented at the annual meeting of the Association for Science Teacher Education. San Antonio, TX.
- Smith, K. Weinburgh, M. H., & Silva, C. (2014, January) *Visual representation – What can you learn from what I draw? - Paper 2*. Paper set (*Interrogating the hybrid language of science in ELL classrooms.*) presented at the annual meeting of the Association for Science Teacher Education. San Antonio, TX.
- Weinburgh, M. H., Silva, C., & Smith, K. (2014, January) *Manual/technical skills – Do I communicate like a scientist? - Paper 3*. Paper set (*Interrogating the hybrid language of science in ELL classrooms.*) presented at the annual meeting of Association for Science Teacher Education. San Antonio, TX.
- Melville, W., Weinburgh, M.H., & Bartley, A. (2014, January). *Conduct in leadership: Virtues and the department chair*. Paper presented at the annual meeting of the Association for Science Teacher Education. San Antonio, TX.
- Weinburgh, M. H., Silva, C., & Smith, K. (2013, January). *Using student artifacts with pre-service teachers: changing methods courses - Paper 2*. Paper set (Educating science teachers for ELL classrooms: stories from the field) presented at the annual meeting of the Association for Science Teacher Education. Charleston, SC.
- Meadows, L., Jablon, P., Eick, C., Akerson, V., Guy, M., Lott, K., Weinburgh, M., & Brown, S. (2013, January). *Teaching science to K-12 students as professional development for science teacher educators: An interactive panel discussion on various approaches, goals, and benefits*. Invited panel presented at the annual meeting of the Association for Science Teacher Education. Charleston, SC.
- Smith, K. H., Silva, C., & Weinburgh, M.H. (2013, March). *How do ELL students and families view communication in mathematics?* Paper presented at the annual meeting of the Research Council on Mathematics Learning.
- Hokayem, H. & Weinburgh, M. (2013, March). *Elementary students' reasoning about species interactions in an ecosystem*. Paper presented at the bi-annual meeting of the International Consortium of Science and Mathematics Education. Granada, Nicaragua.
- Kamen, M. & Weinburgh, M.H. (2013, March). *So you want to publish in (or review for) the Electronic Journal of Science Education*. Paper presented at the bi-annual meeting of the International Consortium of Science and Mathematics Education. Granada, Nicaragua.
- Weinburgh, M. H., Silva, C. & Smith, K. H. (2013, March). *Is this a science, mathematics, or language arts lesson? Practice Advice*. Paper presented at the bi-annual meeting of the International Consortium of Science and Mathematics Education. Granada, Nicaragua.
- Silva, C., Smith, K.H., Cox, J., Balial, R. & Weinburgh, M. H. (2012, February) *Academic language: A manner of speaking*. Presentation at the National Association for Bilingual Education, Dallas, TX
- Weinburgh, M. H., Silva, C., Smith, K. (2012, January). *Integrating languages and content: Science, mathematics, and English - Paper 1*. Paper set presented at the annual meeting of the Association for Science Teacher Education. Clearwater, FL.

- Silva, C., Weinburgh, M. H., Nettles, J., & Smith, K. (2012, January). *Inquiry as an equalizer: Natural and mathematical language through science - Paper 3*. Paper set presented at the annual meeting of the Association for Science Teacher Education. Clearwater, FL.
- Bartley, A., Melville, W., Jones, D., Weinburgh, M. H., Lampo, A., Sacevich, N., Campbell, H., Lower, J., Seymour, R., & Petrick, N. (2012, January). *Where the Boys Are – Issues in Single Sex Classes for Science and Mathematics*. Paper set presented at the annual meeting of the Association for Science Teacher Education. Clearwater, FL.
- Weinburgh, M. H. (2011, November). *Undergraduate Research in chemistry: Authentic and Original*. Paper presented at the annual meeting of School Science and Mathematics Association. Colorado Springs, CO.
- Huckaby, M. F. & Weinburgh, M. (2011, May) *Duoethnographies of Difference: Alleyways and paths of patriotism, pride, and oppression*. Panel presented at the International Congress of Qualitative Inquiry. Urbana, Illinois.
- Weinburgh, M. & Silva, C. (2011, April). *Discourse of science: Helping English language learners with speaking, reading, writing*. Paper presented at the annual meeting of the National Association for Research in Science Teaching. Orlando, FL.
- Huckaby, M. F. & Weinburgh, M. (2011, April). *Duoethnographies of Status, Privilege, and Power: Alleyways and paths of patriotism, pride, and oppression: New avenues of Dear Molly*. Panel paper presented at the annual meeting of the American Educational Research Association. New Orleans, LA.
- Weinburgh, M. H., Silva, C., Marshall, J., Smith, K., & Malloy, R. (2011, January). *Science talk-Math talk: Using the 5R model to help English language learners make meaning through language and integrated science and mathematics. Paper 3 – Oral discourse*. Paper set presented at the annual meeting of the Association for Science Teacher Education. Minneapolis, MN.
- Smith, K., Weinburgh, M. H., Malloy, R., Marshall, J. & Silva, C. (2011, January). *Science talk-Math talk: Using the 5R model to help English language learners make meaning through language and integrated science and mathematics. Paper 2 – Written discourse*. Paper set presented at the annual meeting of the Association for Science Teacher Education. Minneapolis, MN.
- Bartley, A.W., Melville, W., Weinburgh, M., Jones, D., Lampo, A., Sacevich, N., Lower, J. (2011, January). *Curriculum innovation from within – Emancipatory action research in the context of single sex classes in science and mathematics*. Paper presented at the annual meeting of the Association for Science Teacher Education. Minneapolis, MN.
- Huckaby, M.F. & Weinburgh, M. (2011, January). *Alleyways and pathways: Our avenues through patriotic songs*. 2011 International Conference: narrative, Arts-Based, and “Post” Approaches to Social Research.
- Weinburgh, M. H. & Silva, C (2010, March). *Integrating language and science: The 5R’s for English language learners*. Paper presented at the bi-annual meeting of the International Consortium of Research in Science and Mathematics Education, Los Angeles Locos, Mexico.
- Weinburgh, M. H. (2010, March). *Inquiry: Messy science-clean science*. Paper presented at the bi-annual meeting of the International Consortium of Research in Science and Mathematics Education, Los Angeles Locos, Mexico.
- Weinburgh, M. H., Silva, C., & Oliver, T. (2010, March). *Testing a model for developing content knowledge and academic language in science: The 5Rs for teaching ELLs*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, PA.
- Holden, M., Groulx, J., Bloom, M., & Weinburgh, M. H. (2010, March). *Assessing efficacy through an outdoor professional development experience for inservice science teachers*. Paper presented at annual meeting of the National Association for Research in Science Teaching, Philadelphia, PA.
- Weinburgh, M. H., & Silva, C. (2010, January). *Science content knowledge and language acquisition: Replacing, repositioning, revealing, repeating and reloading academic language*. Paper presented at the annual meeting of the Association for Science Teacher Education, Sacramento, CA.
- Bartley, A., Melville, W., Jones, D., & Weinburgh, M. (2009, May). *Describing science as inquiry: The use of video evidence to analyze exemplary practice*. Paper presented at annual conference of the Canadian Society for the Study of Education, Ottawa, CA
- Weinburgh, M. H., Silva, C., Oliver, T., and Wielard, V. (2009, April). *Reloading and repositioning science language for ELL students: A new look at sheltered instruction*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Orange Grove, CA.

- Giscombe, C., Davis, K., Wiesemen, K., Abder-Fraser, P., Yeotis, C., Weinburgh, M., Johnson, A. & Monosson, E. (2009, January). *I answer with my life: Lessons learned from the experiences of women science teacher educators as they navigate and negotiate in science careers*. Paper presented at the annual meeting of the Association for Science Teacher Education, Hartford, CT.
- Wiesemen, K., Weinburgh, M., Giscombe, C., Davis, K., Abder-Fraser, P., & Yeotis, C. (2009, January). *Turning on your leadership lights: a workshop of activities for becoming and being leaders*. Invited workshop presented at the annual meeting of the Association for Science Teacher Education, Hartford, CT.
- Weinburgh, M. H. (2009, January). *Informing college teaching through self-study: A three-year journey*. Paper presented at the annual meeting of the Association for Science Teacher Education, Hartford, CT.
- Weinburgh, M. H. (2008, May). *Delicate empiricism: Creating a model for science education*. Paper presented at the International Consortium for Research in Science and Math Education XII, Quito, Ecuador.
- Weinburgh, M. H., Silva, C., Oliver, T. & Wielard, V. (2008, May). *Science content and language acquisition for elementary ELL students*. Paper presented at the International Consortium for Research in Science and Math Education XII, Quito, Ecuador.
- Kamen, M., Marble, S., Mitchell, M. & Weinburgh, M. H. (2008, May). *Japanese Lesson Study*. Paper presented at the International Consortium for Research in Science and Math Education XII, Quito, Ecuador.
- Weinburgh, M. H., Reynolds, S., Sawey, A., & Holden, M. (2008, January). *If it is brown, It must be dead: Student data informing instructional decisions*. Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis, MO.
- Weinburgh, M. H., Smith, K., Silva, C., Wielard, V., Oliver, T., & Gabel, J. (2008, January). *Is it a delta or data? Building academic language in science and mathematics for English Language Learners*. Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis, MO.
- Bloom, M.A., Sawey, A.T., Holden, M.E., & Weinburgh, M. H. (2008, January). *To what degree can explicit classroom interventions change pre-service elementary teachers' conceptions of nature of science?* Paper to be presented at the annual meeting of the Association for Science Teacher Education, St. Louis Missouri.
- Sawey, A., Holden, M., Bloom, M., Weinburgh, M. H., & Huckaby, M. F. (2008, January). *Pre-service teachers' theoretical conceptions of the nature of inquiry*. Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis, MO.
- Holden, M., Sawey, A., Bloom, M., Weinburgh, M. H., & Huckaby, M. F. (2008, January). *How pre-service teachers' conceptualization of inquiry affects teaching practice*. Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis, MO.
- Scantlebury, K., Elmesky, R., Pringle, R., McKinley, E., Bailey, B., & Weinburgh, M. H. (2007, April). *Re-visioning Science Education from Feminist Perspectives*. Symposium presented at the annual meeting of the National Association for Research in Science Teaching. New Orleans, LA.
- Weinburgh, M. H. (2007, April). *Sustained Professional Development: an Examination of the Effects on Urban Elementary Teachers' Content and Practice*. Paper presented at the annual meeting of the National Association for Research in Science Teaching. New Orleans, LA.
- Reynolds, S., Weinburgh, M. H., Reid, S., Adams, M. & Bellows, L. (2007, April). *A Goethean Approach to Science Education*. Paper presented at the annual meeting of the American Education Research Association. Chicago, IL.
- Weinburgh, M. H., Groulx, J., Bloom, M. & Sawey, A. (2007, January). *The effect of professional development on biology teachers' knowledge of classic content, contemporary content and nature of science*. Paper presented at the annual meeting of the Association Science Teacher Education. Clearwater, FL.
- Weinburgh, M. H., Groulx, J., Bloom, M. & Sawey, A. (2007, January). *Deconstructing the myth of scientific method with elementary pre-service teachers*. Paper presented at the annual meeting of the Association Science Teacher Education. Clearwater, FL.
- Weinburgh, M. H. (2006, March). *Challenging Elementary Preservice Teachers' Beliefs about Scientific Methodology*. Paper present at the International Consortium for Research in Science and Math Education, The Bahamas.

- Weinburgh, M. H., Hart, L. & Carriere, J. (2006, March). *A Professional Development Model for Integrating Math and Science in Urban Elementary Schools*. Paper presented at the International Consortium for Research in Science and Math Education, The Bahamas.
- Weinburgh, M. H., Bloom, M. (2006, January). *Professional Development for Biology Teachers: Change in Knowledge of Classical Content and Contemporary Content*. Paper presented at the annual meeting of the Association of Science Teacher Education. Portland, OR.
- Kamen, M., Weinburgh, M. H., Marble, S. & Naizer, G. (2006, January). *Implementing Lesson Study Among Elementary Science Methods Instructors*". Presented at the annual meeting of the Association Science Teacher Education. Portland, OR.
- Weinburgh, M. H. (2006, January). *Using Local Informal Science Centers to Prepare Elementary Pre-service Teachers to Teach Science*. Paper presented at the annual meeting of the Association Science Teacher Education. Portland, OR.
- Kamen, M., Weinburgh, M. H., Marble, S., Fraser-Abder, Pamela, Eick, C. & Mitchell, M. (2006, January). *New Professor Session*. Sponsored by the Membership Committee and presented as an interactive panel discussion at the annual meeting of the Association Science Teacher Education. Portland, OR.
- Kamen, M., Marble, S., Mitchell, M., Weinburgh, M. H. & Nazier, G. (2006, January). *Japanese Lesson Study with Pre-service Teachers*. Professional Workshop presented at the annual meeting of the Association Science Teacher Education. Portland, OR.
- Wieseman, K., Adbuer, P., Koch, J., Yeotis, C., Moscovici, H. & Weinburgh, M. H. (2005, April). *Crucial Intersections in Academic/Professional and Personal Livers: Women's Experience in Science Education*. Presented at the annual meeting of the National Association for Research in Science Teaching, April 6, 2005, Dallas, TX.
- Jones, L., Shipman, H., Weinburgh, M. H., Gilmer, P. & Smith, W. (2005, January). *Learning Science for Teaching: Content Courses for Elementary Education Majors*". Presented as a roundtable discussion at the annual meeting of the Association for the Education of Teachers in Science. Colorado Spring, CO.
- Weinburgh, M. H. (2005, January). *Pre-service Elementary Science Methods: Refining a Learning Experience*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science. Colorado Spring, CO.
- Weinburgh, M. H., Anderson, P. & Jones, L. (2004, April). *Whiskey is for Drinking: Water is for ...* Symposium presented at the annual meeting of the National Association for Research in Science Teaching, Vancouver, BC.
- Weinburgh, M. H. (2004, April). "Effect of *Tenebrio obscurus* on Elementary Preservice Teachers' Content Knowledge, Attitudes, and Self-Efficacy. Presented at the annual meeting of the National Association for Research in Science Teaching, Vancouver, BC.
- Weinburgh, M. H. (2004, March). *Long-term Professional Development for Elementary Teachers: Cost and Benefits*. Presents at the International Consortium for Research in Science and Mathematics Education, 2004 Consultation, Concepcion, Chile.
- Kamen, M., Weinburgh, M. H., Marble, S., Fraser-Abder, P., Eick, C. & Mitchell, M. (2004, January) *First time professor? Cutting your professional teeth*. Presented as an interactive panel discussion at the annual meeting of the Association for the Education of Teachers in Science. Nashville, TN.
- Kamen, M., Yeotis, C., Nichols, S., Nichols, S., Tippins, D., Norman, K. & Weinburgh, M. H. (2004, January). *The learning cycle in science teacher education: embrace or move out?* Presented as an interactive panel discussion at the annual meeting of the Association for the Education of Teachers in Science. Nashville, TN.
- Kamen, M., Mitchell, M., Roebuck, K., Van Sickle, M., Weinburgh, M. H. & Marble, S. (2004, January). *Blocking/integrating science and math methods: perspectives and lessons learned from those who do*. Presented as an interactive panel discussion at the annual meeting of the Association for the Education of Teachers in Science. Nashville, TN.
- Weinburgh, M. H. (2003, December). *Role and Potential of E-teaching and E-learning in Transatlantic Projects*. Invited paper for Session 9 of the Transatlantic Education and Training conference, Lisbon, Portugal.
- Weinburgh, M. H. (2003, March). *Using the Reflective Teaching Model to Change In-service Teachers' Beliefs and Behaviors*. Presented at the annual meeting of the National Association for Research in Science Teaching. Philadelphia, PA.

- Jones, L., Fisher, K., Haury, D., Weinburgh, M. H., Jackson, D., Meadows, L., Staver, J., Reiss, M. & Venville, G. (2003, March). *Rethinking the Evolution/Creation Controversy: Epistemological Alternatives*". Invited symposium presented at the annual meeting of the National Association for Research in Science Teaching. Philadelphia, PA.
- Weinburgh, M. H. (2003, January). *Learning to Teach From (or About) a Worm*. Presented at the annual meeting of the Association for the Education of Teachers in Science. St. Louis, MO.
- Weinburgh, M. H. (2002, April). *Equity of Input in Science Classrooms: Have Interactions Changed in Twenty Years?* Presented at the annual meeting of the National Association for Research in Science Teaching. New Orleans, LA.
- Weinburgh, M. H. (2002, January). *Changing Elementary and College Science Teaching Through Coteaching/Cogenerative Dialogue*. Presented at the biannual meeting of International Consortium for Research in Science and Mathematics Education. Panama City, Panama.
- Weinburgh, M. H. (2002, January). *Getting Involved in AETS*. Presented at the annual meeting of the Association for the Education of Teachers in Science. Charlotte, NC.
- Weinburgh, M. H., Hughes, M. & Steele, D. (2000, April). *Urban, African-American Students' Realistic Understanding of the Nature of Scientific Knowledge*. Presented at the annual international conference of the National Association of Research in Science Teaching. New Orleans, LA.
- Lewis, B., Jones, L. Weinburgh, M. H. & Hayes, M. (2000, April). *Embracing an Antiracist Agenda for Science Education: Explorations of Racism and White Privilege from Northern and Southern Perspectives*. Invited symposium, "Science for all: Is it a fitting objective?", Paper presented at the annual international conference of the National Association of Research in Science Teaching. New Orleans, LA.
- Fraser-Abder, P., Anderson, P., McGinnis, R., Ross, K., Calabrese-Barton, A., Hammond, L., Weinburgh, M. H., Letts, W., Lewis, B., Norman, O. & Sadler, K. (2000, April). *Science Education for All? Examining Connections/Disconnections Between Theory and Classroom Practice and Finally Moving this Ideas from Rhetoric Toward Reality*. Invited panel presented at the annual international conference of the National Association of Research in Science Teaching. New Orleans, LA.
- Weinburgh, M. H. (2000, January). *How Middle Childhood In-service Teachers View The Scientific Method*. Presented at the annual international conference of the Association for the Education of Teachers of Science. Akron, OH.
- Roseman, J. E. & Weinburgh, M. H. (2000, January). *K-12 Benchmarks and Standards: What Role Should They Play in Pre-Service Programs?* Presented at the annual international conference of the Association for the Education of Teachers of Science. Akron, OH.
- Weinburgh, M. (1999, March-April). *Addressing Issues of (Gender) Equity in Science Education: So much to do in only fifteen weeks*. Invitational Colloquium: Gender and Science Education. Boston, MA.
- Weinburgh, M. H. (1999, March). *Does Hands-on, Inquiry Science Really Help African-American and Female Students?* Presented at the annual international conference of the National Association for Research In Science Teaching, Boston, MA.
- Roseman, J. E., Weinburgh, M. H. & Lederman, N. (1999, January). *Finding Textbooks that meet Benchmarks and Standards*. Presented at the annual international conference of the Association for the Education of Teachers of Science, Austin, TX.
- Koch, J., Hines, S. M., Weinburgh, M. H., Epps, V. & Fraser-Abder, P. (1999, January). *Images of Inclusive Science education: Involving Diverse Learners in School Science*. Presented at the annual international conference of the Association for the Education of Teachers of Science, Austin, TX.
- Norby, R. F., Graham, M., Weinburgh, M. H. & Melear, C. (1998, April) *Women, Science, Inequities, and the Glass Ceiling-Science Education's Role*. Symposium presented at the annual international conference of the National Association for Research in Science Teaching, San Diego, CA
- Weinburgh, M. H. & Steele, D. (1998, April). *Streamlining the Attitude Toward Science Inventory to Improve the Effectiveness of Data Gathering*. Presented at the American Educational Research Association, San Diego, CA.
- Weinburgh, M. H., Schriver, M. & Thorsen, C. (1998, April). *Perspectives on Developing Gender Equity Workshops for Faculty at Teaching and Research Institutions*. Panel presented at the annual international conference of National Association for Research in Science Teaching, San Diego, CA.

- Hughes, M. & Weinburgh, M. H. (1997, January). *The Effects of Hands-on, Kit-based Instruction on Fourth Grade Teachers' Willingness to Teach Science*. Presented at the annual international meeting of the Association for the Education of Teachers of Science. Cincinnati, OH.
- Goebel, C. & Weinburgh, M. H. (1996, January). *Elementary Science Education Partners: Pathways to Professional Development*. Presented at the annual international meeting of the Association of Educators of Teachers of Science. Seattle, WA.
- Weinburgh, M. H. (1995, January). *Race and Gender as Predictors of Middle School Students Attitude Toward Science*. Presented at the annual international meeting of the Association for the Education of Teachers in Science. Charleston, WV.
- Weinburgh, M. H. (1994, March). *Achievement, Grade Level and Gender as Predictors of Student Attitudes Toward Science*. Presented at the annual international meeting of the National Association of Research in Science Teaching. Anaheim, CA.
- Weinburgh, M. H. (1994). *Gender Equity in Science Classrooms: What can Teacher Preparation Do?* Presented at the annual international meeting of the Association of Educators of Teacher of Science. El Paso, TX.

#### B. National

- Alanis, N., Wallace, S., Titus, A., Clawson, M., & Weinburgh, M. (2022, March 4-6). *Underrepresented Minorities and First-Generation First-Year Students Taking a Summer Chemistry Bootcamp Course* [Conference roundtable session]. American Association of Colleges for Teacher Education (Holmes Scholar Preconference), New Orleans, LA, United States
- Alexander, C., Hammond, T., Popejoy, K., Valverde, E., Stroup, M., Weinburgh, M., Brown, K., & Leeson, D. (November 2021). Cultural Heritage Mapping with GIS in Two U.S. Cities. Presented at the National Council for the Social Studies 2021 Annual Conference. Online. Retrieved from [https://whova.com/portal/webapp/ncsse\\_202111/Agenda/1959511](https://whova.com/portal/webapp/ncsse_202111/Agenda/1959511).
- Brown, K., Weinburgh, M. H., & Alexander, C. (October 2021). Zooming through professional development: Learning Geospatial thinking and reasoning through ZOOM. Paper set presented at the annual meeting of the School Science & Mathematics Association, online Retrieved from [https://whova.com/portal/webapp/ssama\\_202110/Agenda/1969801](https://whova.com/portal/webapp/ssama_202110/Agenda/1969801)
- Clawson, M., Charles-Kuhlman, L., del Mario, Jayme, & Weinburgh, M. H. (November 2020). *Investigating Discourse Practices in STEM Undergraduate Classes Using DART*. Paper presented at the virtual meeting of School Science and Mathematics Association.
- Thompson, H. & Weinburgh, M. H. (November 2020). Pedagogical acts: Scaffolding chemistry literacy using multimodality and the 5R Instructional Model. Paper presented at the virtual meeting of School Science and Mathematics Association.
- Biffi, D., Price, C., Smith, K. H., Silva, C., & Weinburgh, M. H. (November 2020). *Investigating science discourse practices of emergent multilingual learners using SALT*. Paper presented at the virtual meeting of School Science and Mathematics Association.
- Tolar, A., Huddleston, G. & Weinburgh, M. (October, 2019). Posthumanist theory in the service of anti-racist curriculum studies scholarship. Panel at the Journal of Curriculum Theorizing Conference on Curriculum Theory and Classroom Practice (Bergamo), Dayton, OH.
- Silva, C. & Weinburgh, M.H. (November 2019). *Language development within science and mathematics content instruction: A case study*. Paper presented at the annual meeting of the SSMA.
- Weinburgh, M.H. (November 2019). *A four year journey of self-study as a science educator*. Paper presented at the annual meeting of the School Science and Mathematics Association.
- Huddleston, G., Tolar, A. & Weinburgh, M. H. (October 2019). *Thought experiments as diffractive practice in science education*. Bergamo Conference on Theory & Pedagogy. Dayton, OH.
- Biffi, D., Lopez-Mobilia, A., Kelez, Sh., Williams, D., Chumchal, M. & Weinburgh, M. (July 2019). *Mislabeling and mercury content in seafood in Peru*. Paper presented at the Joint Meeting of Ichthyologists and Herpetologists, Snowbird, Utah
- Silveus, A., Wu, Shelly, de la Fuentes, Y., & Weinburgh, M.H. (2018 October). *Exploring hybrid language and argumentation results from a ELL program*. Paper presented at the annual meeting of School Science and Mathematics Association, Little Rock, AR.
- Thompson, H., Cordell, J. & Weinburgh, M. H. (2018 October). *Antibiotics from antidepressants: A case study of joining the chemistry community*. Paper presented at the annual meeting of School Science and Mathematics Association, Little Rock, AR.

- Wu, S., Silveus, A., Vasquez, S, Biffi, D., & Weinburgh, M.H. (2017, October). *Using knowledge maps to assess emergent bilingual 5<sup>th</sup> graders' use of hybrid language and argumentation in science notebooks*. Paper presented at the annual meeting of School Science and Mathematics Association, Lexington, KY.
- De la Fuente, Y., Vasquez, S., Biffi, D., & Weinburgh, M.H. (2017, October). *Language and content of the science speech community in a student's journal: A case study..* Paper presented at the annual meeting of School Science and Mathematics Association, Lexington, KY.
- Weinburgh, M.H., Cordell, J., Thompson, H. & Malkoc, U. (2017, October). *Hybrid discourse practices as entry into a chemistry research community*. Paper presented at the annual meeting of School Science and Mathematics Association, Lexington, KY.
- Smith, K. H., Harmon, H., Weinburgh, M. H., & Silva, C. (2016 October). *Mathematical thinking within the Middle School Science Classroom*. Paper presented at the annual meeting of School Science and Mathematics Association, Phoenix, AR.
- Weinburgh, M. H., Silva, C., & Smith, K. H. (2016 October). *Using Reflections to Explore In-service Biology Teachers' Professional Growth*. Paper presented at the annual meeting of School Science and Mathematics Association, Phoenix, AR.
- Smith, K. H., Weinburgh, M. H., & Silva, C. (2016 October). *Examining Students' Understanding of Mathematical Communication*. Paper presented at the annual meeting of School Science and Mathematics Association, Phoenix, AR.
- Smith, K.H., Smith, N., Silva, C. & Weinburgh, M.H. (2014, June). *Scaling up: Student learning for ELLs*. Paper presented at the annual meeting of TODOS 2014, Phoenix, AR.
- Silva, C., Smith, K.H., Cox, J., Balial, R. & Weinburgh, M. H. (2011). *Academic language: A manner of speaking*. Presentation at the National Association for Bilingual Education, Dallas, TX
- Weinburgh, M. H., & Smith, K.H. (2010, November). *Word Walls: Strategies for use in mathematics and science classrooms*. Paper presented at the annual meeting of the School Science and Mathematics Association, Fort Myers, FL.
- Weinburgh, M. H. (2009, October). *Reloading science academic language for ELL students*. Paper presented at the annual conference of School Science and Mathematics Association. Reno, NA
- Weinburgh, M. H. (2008, November). *Delicate empiricism: Goethe's Science of Nature*. Paper presented at the annual conference of School Science and Mathematics Association. Raleigh-Durham, NC.
- Weinburgh, M. H. (2007, November). *Developing an understanding of plants using a Goethean approach with preservice teachers*. Presented at the annual meeting of the School Science and Mathematics Association, November 2007, Indianapolis, IN.
- Reynolds, S., Weinburgh, M. H. Reid, S., Bellows, L. & Adams, M. (2007, October). *It is green or it is dead*. Paper presented at the annual Curriculum & Pedagogy Conference. Marble Falls, TX.
- Weinburgh, M. H., Reynolds, S., Reid, S., Bellows, L. & Adams, M. (2007, October). *Goethe: Transforming College Curriculum through Action Research*. Paper presented at the annual Curriculum & Pedagogy Conference, Marble Falls, TX.
- Reynolds, S., Weinburgh, M. H., Adams, M. & Reid, S. (2006, October). *A Goethean Approach to Science Education*. Paper presented at Curriculum and Pedagogy Conference, Austin, TX.
- Groulx, J. & Weinburgh, M. H. (2005, April). *Improving the Development and Support of Student Teacher Mentors: A Pilot Evaluation*. Presented at the annual meeting of the American Educational Research Association, Montreal, Quebec, Canada.
- Weinburgh, M. H. (2004, October). *Pre-service elementary teachers' content knowledge about electricity: how shocking can it be?* Presented at the annual meeting of the School Science and Mathematics Association, Atlanta, GA.
- Farokhi, B. & Weinburgh, M. H. (1999, June). *Is the Climate Chilly or Warm for Women in Higher Education Institutions?* Presented at the bi-annual Symposium for Higher Education, American Association of University Women, Washington, DC.
- Baird, M. K., Weinburgh, M. H. & Farokhi, E. (1998, August). *Self-Efficacy and Outcome Expectations in Undergraduate Women*. Poster session at American Psychological Association, San Francisco, CA.
- Irvine, J., Frasher, R., Weinburgh, M. H., Jones, J. & Causey, V. (1998, February). *Perfecting Educational Practice: Culturally Responsive Curriculum Development*. Presented at the annual meeting of the American Association of Colleges for Teacher Education, New Orleans, LA.
- Weinburgh, M. H. (1998, January). *Gender, Ethnicity, and Grade Level as Predictors of Middle School*

- Students' Attitudes Toward Science*. Presented at the annual meeting of the Association for the Education of Teachers of Science. Minneapolis, MN.
- Weis, C., Weinburgh, M. H. & Thorsen, C. (1997, June). *Gender Equity In and Out of the Classroom*. Presented at the semi-annual symposium of the American Association of University Women. Anaheim, CA.
- Farokhi, B., Weinburgh, M. H. & Thorsen, C. (1997, June). *Integrating Gender Equity and Reform in Higher Education*. Presented at the semi-annual symposium of the American Association of University Women. Anaheim, CA.
- Weinburgh, M. H. & Mewborn, D. (1997, March). *Integrating Gender Equity and Reform: Reports from the participating institutions*. Presented at the annual meeting of the American Educational Research Association. Chicago, IL.
- Irvine, J., Frasher, R., Weinburgh, M. H. & Causey, V. (1996, October). *Culturally Responsive Pedagogy: Weather Unit*. Presented at the annual meeting of the American Association of Colleges of Teacher Education. Augusta, GA.
- Canada, B., Kozaitis, K., Allwood, V., Weinburgh, M. H. & DeHaan, B. (1996, June). *Elementary Science Education Partners*". Presented at the National Science Foundation's Dynamic Partnerships: Seeding and Sustaining Education Reform. Washington, DC.
- Causey, V., Weinburgh, M. H., Irvine, J., Frasher, R. & Jones, J. (1996, February). *Developing Culturally Responsive Middle Grades Curriculum Material*. Presented at the annual meeting of the American Association of Colleges for Teacher Education. Chicago, IL.
- Weinburgh, M. H. (1994, April). *Achievement, Grade Level, and Gender as Predictors of Student Attitudes Toward Science*. Presented at the Distinguished Research Session of the annual meeting of the American Educational Research Association. New Orleans, LA.
- Weinburgh, M. H. (1994, March). *Gender Equity in Science Classrooms: Recommendations for the classroom teacher*. Presented at the annual meeting of the National Science Teachers Association. Anaheim, CA.
- Weinburgh, M. H. (1994, April). *Gender Differences in Student Attitudes Toward Science: A Meta-analysis of the literature from 1970-1991*. Presented at the Distinguished Paper Session at the annual meeting of the American Educational Research Association. Atlanta, GA.
- Freedman, F., Weinburgh, P. & Weinburgh, M. H. (1993, November). *Critical Thinking in a Student Centered Classroom*. Presented at the Fall Forum of Coalition of Essential Schools. Louisville, KY.

### C. Regional

- Brown, K., Weinburgh, M. H., & Alexander, C. (October 2021). Teachers learning with GIS while learning about GIS: 2020-2021 PD. Paper set presented at the annual meeting of the Southwest Association of Science Teacher Educators, The Woodlands, TX
- Weinburgh, M. H. (October 2021). Developing ELL's conceptual understanding and language for doing and learning. Paper set presented at the annual meeting of the Southwest Association of Science Teacher Educators, The Woodlands, TX
- Weinburgh, M.H. (2018 October). *Dropout or departure: Where are the science teachers?* Paper presented at the annual meeting of Southwestern Association for Science Teacher Education, Norman, OK.
- Wu, S., Salazar, B., & Weinburgh, M. H. (2018 October). *An exploratory case study of a high school student's fieldwork and lab experiences with diatoms on turtles*. Paper presented at the annual meeting of the Southwestern Association for Science Teacher Education, Norman, OK.
- Weinburgh, M. H. (2017 September). *Movement expression in chemistry: Multimodal ensembles*. Paper presented at the annual meeting of Southwestern Association for Teacher Educators, Waco, TX.
- Weinburgh, M.H. (2013, October). *Becoming a reviewer*. Paper presented at the annual meeting of the Southwestern Association for Science Teacher Educators, San Antonio, TX.
- Weinburgh, M. (2012, October). *Helping ELLs with science academic language using the 5R Instructional Model*. Paper presented at the annual meeting of the Southwestern Association for Science Teacher Education. Houston, TX.
- Weinburgh, M. H. (2011, October). *Are we smart enough to use a smart phone?* Roundtable presented at the annual meeting of the Southwestern Association for Science Teacher Education. Lubbock, TX.
- Weinburgh, M. H. (2010, October). *Chemistry students doing original research*. Paper presented at the annual meeting of the Southwestern Association for Science Teacher Education. Stillwater, OK.



- Weinburgh, M. H. (2010, October) *Finding time to get it all done*. Roundtable presented at the annual meeting of the Southwestern Association for Science Teacher Education. Stillwater, OK.
- Stuessy, C., Weinburgh, M.H., Kamen, Michael, Naizer, G., & Thomas, J. (2010, October). *It's everyone's problem: Science teacher preparation and professional development*. Symposium presented at the annual meeting of Southwestern Association for Science Teacher Education. Stillwater, OK.
- Bloom, M., Holden, M., Sawey, A., & Weinburgh, M. H. (2008, November). *Promoting the use of Outdoor Learning Spaces by K-12, In-service Science Teachers through an Outdoor Professional Development Experience*. Paper presented at the annual meeting of Southwest Association of Science Teacher Education, Arlington, TX.
- Holden, M., Bloom, M., & Weinburgh, M. H. (2008, November). *Examining K-12 Teacher Efficacy in the Use of Outdoor Learning Spaces through a Sustained Professional Development Experience*. Paper presented at the annual meeting of Southwest Association of Science Teacher Education, Arlington, TX.
- Weinburgh, M. H. (2007, October). *Goethe and Kuhn: Using Philosophers to Guide Instructional Design*. Paper presented at the annual meeting of the Southwest Association for Science Teacher Education, Fort Worth, TX.
- Sawey, A. & Weinburgh, M. H. (2007, April). *Preservice Teachers Language of Inquiry: Messy vs. Clean Science*. Paper presented at the annual meeting the Southwest Association for Science Teacher Education, Fort Worth, TX.
- Holden, M., Sawey, A., Bloom, M., Weinburgh, M. H. & Huckaby, F. (2007, April). *Pre-service Teachers' Conceptualization of Inquiry: Effects on Beginning Practice*. Paper presented at the annual meeting the Southwest Association for Science Teacher Education, Fort Worth, TX.
- Weinburgh, M. H. (2006, September). *Reflective Teaching Model in Long-term Professional Development for Urban Elementary Teachers*. Paper presented at the Southwestern Association of Science Teacher Educators, Wichita, KA.
- Weinburgh, M. H., Groulx, J., & Bloom, M. (2006, September). *Increasing Classical and Contemporary Biology Knowledge through Professional Development*. Paper presented at the Southwestern Association of Science Teacher Educators, Wichita, KA.
- Bloom, M. & Weinburgh, M. H (2006, September). *Surveying Science Teachers' Knowledge of Evolution Uncovers Misconceptions of the Nature of Science*. Paper presented at the Southwestern Association of Science Teacher Educators, Wichita, KA.
- Weinburgh, M. (2005, February). *Findings from a Year-long Professional Development Experience for Science Teachers in Urban Elementary Schools*. Presented at the annual meeting of the Southwestern Association of Science Teacher Educators, San Antonio, TX.
- Weinburgh, M. H (2004, February). *Do they even realize what they don't know: A look at elementary pre-service teachers' content knowledge*. Paper presented at the annual meeting of Southwest Association for the Education of Teachers of Science, Georgetown, TX.
- Weinburgh, M. H (2001, October). *Sex and Race Differences in Interactions Between Teachers and Students in Fifth Grade Science Classrooms*. Presented at the annual meeting of the Southeastern Association for the Education of Teacher in Science, Tampa, FL.
- Weinburgh, M. H (1999, October). *Longitudinal Study of the Effect of a Local Systemic Change Project of Fifth Grade Students' Attitudes Toward Science*. Presented at the annual meeting of the Southeastern Association of Educators of Teachers of Science, Athens, GA.
- Weinburgh, M. H (1998, December). *Helping Teachers Become Comfortable with Technology*. Presented at the Technology for Teachers Conference, Atlanta, GA.
- Weinburgh, M. H (1998, November). *Inquiry Approaches to Content Learning*. Presented that regional meeting of National Science Teachers Association, Birmingham, AL.
- Weinburgh, M. H (1997, November). *Validity vs Permission: What is a Researcher to do?* Presented at the annual meeting of the Southeastern Association for the Education of Teachers of Science, Wachulla Springs, FL.
- Weinburgh, M. H (1996, November). *Gender Equity and Reform: Report from the first year*. Presented at the annual meeting of the Southeastern Association for Education of Teachers of Science, Smyrna, GA.
- Gardner, C., Cosgrove, M. & Weinburgh, M. H (1996, October). *Perfecting Educational Practice: The Georgia Model*. Presented at the annual meeting of the National Science Teachers Association regional meeting, Atlanta, GA.

- Wolf, L. & Weinburgh, M. H (1996, June). *InGEAR: A Collaborative for Reform*. Presented at the South Atlantic Regional Conference of the American Association of University Women, Charleston, SC.
- Weinburgh, M. H (1996, March). *Partners as Change Agents in Elementary Science Classrooms*. Presented at the annual meeting of the Southeastern Association of Educators of Teachers of Science, Auburn, AL.
- Weinburgh, M. H (1995, March) *Developing a Technology Course for Middle Childhood Majors*. Presented at the annual meeting of the Southeastern Association for the Education of Teachers in Science, Pensacola, FL.
- Weinburgh, M. (1993, October). *Gender Equity in Science Classrooms: A Challenge to Teacher Education Programs*. Presented at the annual meeting of the Southeastern Regional Association of Teacher Educators, Nashville, TN.

#### D. State

- Weinburgh, M. H (2001, November). *Equity in Teacher-Student Interactions in Fifth Grade Science Classrooms: Reality or Myth*. Presented at the annual meeting of the Georgia Educational Research Association. Clayton College & State University, Morrow, GA.
- Weinburgh, M. H (1999, October). *Urban Fifth Grade Students' Attitudes Toward Science: A Three Year Study*. Presented at the annual meeting of the Georgia Educational Research Association, Morrow, GA.
- Weinburgh, M. H (1998, November). *The Role of Parents in Creating Educational Equity*. Presented at the Saturday School for Scholars and Leaders, Atlanta, GA.
- Weinburgh, M. H (1998, November). *An Examination of Student Attitudes Toward Science During the First Two Years of a Five-year Science Initiative*. Presented at the Georgia Educational Research Association, Morrow Ga.
- Weinburgh, M. H (1998, October). *Designing, Implementing, and Evaluating Two Undergraduate Teacher Preparation Programs*. Panel presented at the Georgia Association of Teacher Educators. Atlanta, GA.
- Weinburgh, M. H (1998, March). *Using Technology to Enhance Learning In Math and Science*. Presented at the annual Microcomputers Online With Education '98 conference, Atlanta GA and the annual Georgia Staff Development Council. Atlanta, GA.
- Weinburgh, M. H (1997, November). *Middle School Students' Grade Expectation and Preferred Topics in Science*. Presented at the annual meeting of the Georgia Educational Research Association, Atlanta, GA.
- Weinburgh, M. H., Smith, L., Smith, K. H., Brown, T., Everts, R., Borah, T & Rumph, C. (1997, October). *Listening to the Voices of Early Childhood Education Majors as They Learn to Infuse Technology into the Teaching of Mathematics and Science*. Presented at the annual meeting of the Georgia Association of Teacher Education, Macon, GA.
- Irvine, J., Frasher, R., Armiento, B & Weinburgh, M. H (1997, October). *Perfecting Educational Practice: Culturally Responsive Curricula for Middle Grades*. Presented at the annual meeting of the Georgia Association of Colleges for Teacher Education, Macon GA.
- Weinburgh, M. H & Thompson, R (1996, Atlanta). *Integrating Gender Equity and Reform*. Presented at the annual meeting of the Georgia Educational Research Association, Atlanta, GA.
- Weinburgh, M. H (1006, March). *Developing Technology Rich Educational Environments: A co-reform effort*. Presented at the annual meeting of the Georgia Association of Colleges for Teacher Education, Chattanooga, TN.
- Weinburgh, M. H (1996, March). *Where Did I Get It?* Presented at the fourth annual statewide Conference for Teachers of Minorities in Mathematics and Science, Atlanta, GA.
- O'Neill, K. & Weinburgh, M. H (1996, March). *Developing Technology Rich Educational Environments: A co-reform effort*. Presented at the annual GPTV Conference. Clayton State College, Morrow, GA.
- Weinburgh, M. H (1995, October). *Middle School Students Attitude Toward Science as Predicted by Race and Gender*. Presented at the annual meeting of the Georgia Educational Research Association, Atlanta, GA.
- Weinburgh, M. H (1995, October). *Developing Technology Rich Education Environments: A co-reform effort*. Presented at the annual meeting of the Georgia Association of Teacher Educators. Savannah, GA.

- DeHaan, R. & Weinburgh, M. H (1995, April) *Elementary Science Education Partners*. Presented at the conference on Improving Student Learning Through Action Research and Assessment. Kennesaw, GA.
- Jones, J. & Weinburgh, M. H (1994, October). *The Influence of the Cooperating Teacher on Pre-service Teachers' Beliefs and Practice*. Presented at the annual meeting of the Georgia Association of Teacher Education, Atlanta, GA.
- Armento, B., Jones, J. & Weinburgh, M. H (1994, October). *Using the Reflective Teaching Model in Teacher Education*. Presented at the annual meeting of the Georgia Association of Teacher Education. Atlanta, GA.
- Armento, B., Jones, J. & Weinburgh, M. H (1994, October). *Teaching Activities from the Math/Science/Social Studies Block*. Presented at the annual meeting of the Georgia Association of Teacher Education, Atlanta, GA.
- Weinburgh, M. H & Weinburgh, P. (1993, November). *Developing the Student-as-Worker*. Presented at the annual meeting of the Georgia Independent School Association, Atlanta, GA.
- Weinburgh, M. H (1993, October). *Achievement, Grade Level, and Gender as Predictors of Student Attitudes Toward Science*. Presented at the annual meeting of the Georgia Educational Research Association, Atlanta, GA.
- Weinburgh, M. H (1992, October). *Gender Differences in Student Attitudes toward Science: A Meta-analysis of the literature from 1970-1991*. Presented at the annual meeting of the Georgia Educational Research Association, Decatur, GA.
- Weinburgh, M. H (1991, October). *Gender, Prior Academic Achievement, and Belief as Predictors of Student Attitudes Toward Biology Laboratory Instruction*. Presented at the annual meeting of the Georgia Educational Research Association, Decatur, GA.

#### E. Invited

- THECB – *Big Data to Answer Big Questions*. Teacher Quality Grants Program 2016 Spring Technical Meeting. Fort Worth, TX. March 23, 2016.
- THECB – *Project Evaluation Components: Planning for Data Collection*. Teacher Quality Grants Program 2016 Spring Technical Meeting. Fort Worth, TX. March 25, 2016
- SMU – *Equity Research: Why and How*. Teaching and Learning Speaker Series, September 22, 2016
- UNT-HSC – *Didactic Classrooms: Learning to Pause the Lecture* – Seminar Series, October 24, 2016
- THECB – *Conducting Standard Evaluation at the State Level*. Teacher Quality Grants Program presentation to commissioner, November 14, 2016

#### 5E. Editorships, consulting, etc

##### A. Editor

- Editor, *Electronic Journal of Science Education*. 2013-2019
- Co-editor, *Electronic Journal of Science Education*. (Michael Kamen, Co-Editor), 2012-2013
- Associate Editor, *Electronic Journal of Science Education*. (Michael Kamen, Editor), 2005-2012.

##### B. Consulting

- Texas Christian University, Transdisciplinary Education for Critical Hacks of Medical Devices NSF grant, Education consultant, 2014-2016
- Oklahoma State University, Red Light, Green Light Signals? Defining Family and School Influences on Rural, American Indian Girls' Early STEM Interests. NSF grant. Evaluation consultant 2009-2011
- Texas Higher Education Coordinating Board – 2011 ESEA Title II, Part A National Conference, representative for Texas, June, 2011.
- National Science Foundation Review Panel – Climate Change Education Partnership Phase I (CCEP-I) – July 14-16, 2010.
- Texas Higher Education Coordinating Board – Teacher Quality Grants, 2009, 1010
- Charles A. Dana Center – Technical Assistance to Teacher Quality Grants, 2006, 2007, 2008
- Women in Science Project. Sushu Mpuchane, PI. University of Botswana, Gaborone, Botswana. Funded by the USAID Education Democracy and Development Initiative (EDDI). 2000-2003.
- AAAS, Project 20161 Textbook – 2000-2003
- Detectives in the Classroom. Science Education Partnership Award. Mark Kaelin, Project Director, Montclair State University. Funded by National Institute of Health. 2000-2003.

A.D.A.M. Software, Inc., Atlanta, Ga., 1993-1996.  
Georgia Public Television/GSU. Atlanta, GA. Television series. 1996  
Visions United, Atlanta, GA. 1994-1996.  
Evaluation of NSF “Mathematica” grant at Georgia Institute of Technology, Atlanta, GA. John Wiggins:  
PI, 1995.  
Evaluation, NSF “Gift” grant at Georgia Institute of Technology, Atlanta, GA. Joanna Fox: PI, 1995.  
Critical Friend, Salem High School, Conyers, GA 1993-1996.

### C. Professional Engagements

#### *C.1 International*

Southwestern University, College Self-Study, September 2020  
University of Nebraska – Lincoln, College Self-Study, July 2020  
Ministry Education, Commission for Academic Accreditation, UAE, January 2020  
School/University Partnerships.(co-facilitated with A. Esping). Banmai School, Hanoi, Vietnam, July 2018  
Science and Language Education (co-present with C. Silva). Panama Bilingue, February 2018  
Partnerships for Improving Teacher Education, Banmai School, Hanoi, Vietnam, October 2016  
Acquiring the discourse of the science classroom (co-present with C. Silva) Escola Superior de Educacao  
de Setubal, Setubal, Portugal, March 2016  
How Topics of Interest Differ with Males and Females. Seminar for Faculty. Lakehead University, Thunder  
Bay, Ontario, Canada. September 9, 2009.  
Increasing Content Knowledge and Pedagogical Skills Using Contemporary Issues in Biology. Seminar for  
Faculty. Lakehead University, Thunder Bay, Ontario, Canada. October 23, 2007.  
Using Contemporary Issues in Pre-Service Teacher Education. Seminar for BL2040A. Lakehead  
University, Thunder Bay, Ontario, Canada. October 22, 2007.  
Learning from the Young Women: Reporting on Three Years. University of Botswana, Gaborone,  
Botswana, July 9, 2004 (EDDI grant).  
Equity in Science Education: Taking a Longer Look. University of Botswana, Gaborone, Botswana, July  
11, 2003 (EDDI grant).  
The Status of Women in Science/Technology in the United States: 2002. Women in Science and  
Technology Conference: Women’s Participation in Science and Technology...Positioning  
Southern Africa for Equity. University of Botswana, Gaborone, Botswana, July 3, 2002. (EDDI  
grant)  
Who Is Doing Science? University of Botswana, Gaborone, Botswana, August 12, 2001. (EDDI grant)  
Indigenous Knowledge used in Teaching Science, University of Cape Coast, Faculty of Education and  
Faculty of Science, July 27, 2000.  
Using Everyday Objects and Indigenous Knowledge to Teach Science, University of Cape Coast, Faculty  
of Education and Faculty of Science, August 1, 1999.  
Educational Reform around the World. University of Kumasi, Ghana, July 28, 1999.  
Good Childhood: What does that mean? Keynote for “Good Childhood”, Hanzehogeschool, Groningen,  
The Netherlands, March 23, 1998.  
Using Technology to Enhance Learning with Early Childhood Students. Hanzehogeschool/Faculty Gamma,  
Groningen, The Netherlands, March 24, 1998.  
Reflective Teaching Model: The Cote d’Ivoire Model. Ecole Normale Superiure, Abadajan, Cote d’Ivoire,  
Africa. March 11-April 11, 1997.

#### *C.2 Regional*

Science Teacher Education in the New Millennium: Issues and Challenges. Keynote for annual conference  
of the Southeastern Association for Teachers in Science, October 7, 2000.

#### *C.3 State*

Using a Modified Japanese Lesson Study to Help Improve Science Instruction. Dana Center’s Annual  
Mathematics and Science Higher Education Conference. October, 2006. Austin, TX  
Teacher Quality Modules: Biology. Invited session at Texas Science Education Leadership Association,,  
November 3, 2004.  
Equity Issues in Science and Science Education. “Closing the Gaps in Math and Science” Conference of  
the Effective Schools Project. Tarleton State University, October 30, 2002.

The Study of Whiteness: Missing Link to Ethnic Studies. Panel discussion. Human Relations Student Leadership Retreat. November 13, 1999. Office of Diversity, Georgia State University, Atlanta, GA

How to Mentor/Tutor. Community Service: An Integration of Living and Learning. February, 1999 Atlanta, GA.

Status of Women in Medicine. Association of Women in Medicine, March 24, 1996. Atlanta, GA.

Equity in Education: The Role of Counselors. Region I Counselors. November 9, 1995. Savannah, GA.

Surviving and Thriving at Emory. President’s Council on the Status of Women Faculty, October 14, 1995, Decatur, GA.

Meeting the Needs of Girls and Women. Diversity Panel, Georgia Initiative in Mathematics and Science. September 28, 1995, Decatur, GA.

Gender Inclusive Lesson Planning. CEISMC: Gender Journey, July 26, 1995, Atlanta, GA.

Education Makes a Difference. Kappa Delta Pi, May 6, 1995, Atlanta, GA.

Observing, Recording, and Changing Gender Biased Actions in the Classroom. Georgia Department of Education: Vocational/Applied Technology Instructional Division. January 19, 1995, Savannah, GA.

Gender Equity in Schools: Suggestions for High School Counselors. Cobb County Board of Education. January 28, 1994, Cobb County, GA.

Gender Equity in Schools: Suggestions for Middle School Counselors. Cobb County Board of Education. January 21, 1994, Cobb County, GA.

Gender Equity in Schools: Suggestions for Elementary School Counselors. Cobb County Board of Education. January 14, 1994, Cobb County, GA.

Gender Equity in Science: Problems, Practices, Solutions. College Board Southern Regional Conference. May 1993, Atlanta, GA.

D. External Reviewer for Promotion and Tenure

Auburn University  
 Board of Regents, Louisiana  
 Florida International University  
 Florida State University  
 Kent State  
 Oklahoma State University  
 Old Dominion University  
 Rice University  
 Tarleton State University  
 Texas A & M – Commerce  
 The Ohio State University  
 Trinity University  
 University of Connecticut  
 University of Georgia  
 University of Hawaii  
 University of Nebraska  
 University of Nevada, Las Vegas  
 University of North Texas  
 University of North Texas- Health Science Center  
 University of Northern Arizona  
 University of Maryland  
 University of Michigan-Dearborn  
 University of Mississippi  
 University of South Florida  
 University of Vermont  
 University of North Colorado  
 Bowdoin College

5F. External support

A. Funded [*>\$12,400,862.00*]

*A.1 at TCU [ > \$6,561,988.00 ]*

- Leo Potishman. "Andrews Institute Math/Science/Language Program". Written by Molly Weinburgh and Dennis Alexander. **\$10,000.00**. May 2021 – April 2021
- Rainwater Charitable Foundation. "Rainwater Foundation community partners: A snapshot of stakeholder COVID -19 experiences". Written by Sue Anderson, Miriam Ezzani, Frank Hernandez, Gabe Huddleston, Jan Lacina, and Molly Weinburgh. **\$59,340.00** November 2020 – August 2021.
- NSF. "Collaborative Research: Expanding Socio-Environmental Science Investigations with Geospatial Technologies in High Schools". PI – Tom Hammond (Lehigh University), PI – Judith Morrison (Washington State University), and PI – Curby Alexander (TCU) with Molly Weinburgh (TCU senior personnel). **\$3,000,000.00** overall. May 2020 – May 2024.
- Bryant Bridge of Hope. "Events to engage the next generation of learners with mathematics and science". Written for Andrews Institute by Beth Zimmerman, Sarah Fuentes, Matt Switzer, Hayat Hokayem, Mary Patton, and Molly Weinburgh. **\$34,500.00**. May 2019 – May 2020
- Leo Potishman. "Andrews Institute Math/Science/Language Program". Written by Molly Weinburgh and Dennis Alexander. \$25,000.00. May 2019 – April 2020.
- Bryant Bridge of Hope. "Events to engage the next generation of learners with mathematics and science". Written for Andrews Institute by Beth Zimmerman, Sarah Fuentes, Matt Switzer, Hayat Hokayem, Mary Patton, and Molly Weinburgh. **\$34,500.00**. May 2018 – May 2019
- Bryant Bridge of Hope. "Events to engage the next generation of learners with mathematics and science". Written for Andrews Institute by Beth Zimmerman, Sarah Fuentes, Matt Switzer, Hayat Hokayem, Mary Patton, and Molly Weinburgh. **\$34,500.00**. May 2017 – May 2018
- Waitt Foundation Rapid Ocean Conservation Grant. "Sustainable seafood initiatives in Peru: Exploring assumptions. Co-PI. Molly Weinburgh and Daniella Biffi. **\$9,955.00**. April 2017 to August 2018
- Sid Richardson Foundation. Summer programing for Youth. PI. Molly Weinburgh with Dennis Alexander. **\$45,000.00** April 2017 – February 2018.
- Bryant Bridge of Hope. "Events to engage the next generation of learners with mathematics and science". Written for Andrews Institute by Beth Zimmerman, Sarah Fuentes, Matt Switzer, Hayat Hokayem, Mary Patton, and Molly Weinburgh. **\$34,500.00**. May 2017 – May 2018
- Texas Higher Education Coordinating Board, Teacher Quality Granting Program. "An examination of the professional growth of teachers participating in a professional development program". Year 2 of 2016-2018 cycle. PI: Molly Weinburgh. **\$295,000.00**. November 2017 to September 2018
- Texas Higher Education Coordinating Board, Teacher Quality Enhancement. "Communities of practice in environmental science". PI: Molly Weinburgh [Molly Weinburgh, primary director, and Cecilia Silva, secondary director] Year 2 additional **\$163,000.00**. [TCU Grant 24101; THECB 547] April 2017 – February 2018.
- Texas Higher Education Coordinating Board, Teacher Quality Granting Program. "An examination of the professional growth of teachers participating in a professional development program". Year 1 of 2016-2018 cycle. PI: Molly Weinburgh. **\$395,000.00**. January 2016 to September 2017
- Texas Higher Education Coordinating Board. "Communities of practice in environmental science". PI: Molly Weinburgh [Molly Weinburgh, primary director, and Cecilia Silva, secondary director] **\$230,000.00**. [TCU Grant 24101; THECB 547] April 2016 – May 2017.
- Bryant Bridge of Hope. "Events to engage the next generation of learners with mathematics and science". Written for Andrews Institute by Beth Zimmerman, Sarah Fuentes, Matt Switzer, Hayat Hokayem, Mary Patton, and Molly Weinburgh. **\$19,000.00**. May 2016 – May 2017
- Texas Higher Education Coordinating Board, Teacher Quality Granting Program. "An examination of the professional growth of teachers participating in a professional development program". Year 2 of 2014-2016 cycle. PI: Molly Weinburgh **\$375,000.00**. January 2015 to September 2016.
- National Science Foundation, "Transdisciplinary Education for Critical Hacks of medical Devices (TECH MeD)" **\$270,019.00**. PI – Michael Bachmann and Adam Shniderman. Assessment coordinator, Molly Weinburgh.
- Sid Richardson Foundation. "Math/Science/Language Summer Experience" **\$25,000.00** May 2015-May 2016. PI: Molly Weinburgh with Cecilia Silva and Dennis Alexander (University Development).
- Texas Higher Education Coordinating Board, Teacher Quality Enhancement. "Biology: A Crime Scene Investigation- Year 2". PI: Molly Weinburgh [Molly Weinburgh, primary director, and Cecilia Silva, secondary director] **\$251,437.00** [TCU grant 24296; THECB 12904] April 2015 – May 2016.

Texas Higher Education Coordinating Board. “Biology: A CSI investigation”. PI: Molly Weinburgh, [Molly Weinburgh, primary director, and Cecilia Silva, secondary director] **\$399,410.00**. February 2014- April 2015.

Texas Higher Education Coordinating Board, Teacher Quality Granting Program. “An examination of the professional growth of teachers participating in a professional development program”. Year 1 of 2014-2016 cycle. PI: Molly Weinburgh **\$375,000.00**. January 2014 to September 2015

Texas Higher Education Coordinating Board. “An examination of the professional growth of teachers participating in a professional development program”. PI: Molly Weinburgh, Year 4 amendment of **\$365,527.00**. May 2013- September 2014.

Texas Higher Education Coordinating Board, Teacher Quality Enhancement. “Earth/Space Science: Inquiry and Content Development”, PI: Molly Weinburgh, extended to year 2 with additional **\$92,700.00**. February 2013 – May 2014.

Texas Higher Education Coordinating Board. “An examination of the professional growth of teachers participating in a professional development program”. PI: Molly Weinburgh, Year 3 amendment of **\$385,527.00**. May 2013- September 2014.

Texas Higher Education Coordinating Board, Teacher Quality Enhancement. “Earth/Space Science: Inquiry and Content Development”, PI: Molly Weinburgh, **\$112,700.00**. February 2012 – April 2013.

JP Morgan Chase Foundation. “Math/Science/Language Camp – Year 5”. Penny Bishop, Cecilia Silva, and Molly Weinburgh. **\$40,000.00**. November 2012-Nov 2013.

Texas Higher Education Coordinating Board. “An examination of the professional growth of teachers participating in a professional development program”. PI: Molly Weinburgh, **\$395,890.00**. March 2012- September 2013.

JP Morgan. “Math/Science/Language Camp- Year 4”. Penny Bishop, Cecilia Silva, and Molly Weinburgh. **\$40,000.00**. September 2011-August 2012.

Texas Higher Education Coordinating Board. “An examination of the professional growth of teachers participating in a professional development program”. PI: Molly Weinburgh, **\$407,000.00**. June 2011-December 2012

Texas Higher Education Coordinating Board, Teacher Quality Enhancement. “Environmental Systems Emphasizing Sustainable Education [ESESE]”, Co-PI: Molly Weinburgh and Mark Bloom, **\$126,633.00**. *Amended and extended for year 3 January 2011*. April 2011 – January 2012.

JP Morgan Chase Foundation. “Math/Science/Language Camp – Year 3”. Penny Bishop, Cecilia Silva, and Molly Weinburgh. **\$40,000.00**. November 2010-Nov 2011.

Lakehead University - RACDEF. “Teaching and Learning in Single Sex Classes: Case Studies in Math and Science”. Co-PI: Tony Bartley, Wayne Melville, and Molly Weinburgh **\$2,500.00**. June 2010- June 2011.

Texas Higher Education Coordinating Board, Teacher Quality Enhancement. “Environmental Systems Emphasizing Sustainable Education [ESESE]”, Co-PI: Molly Weinburgh and Mark Bloom, **\$29,958.00** *amendment February 2010*. May, 2009 – May, 2011.

JP Morgan Chase Foundation. “Math/Science/Language Camp –Year 2”. Penny Bishop, Cecilia Silva, and Molly Weinburgh. **\$30,000.00**. April 2010-August 2010.

National Science Foundation. “Red Light, Green Light Signals: Encouraging Rural, Native American Girls’ STEM Interests”. Lead institution: Oklahoma State University. PI: Julie Thomas. External Evaluator: Molly Weinburgh

Texas Higher Education Coordinating Board, Teacher Quality Enhancement. “Environmental Systems Emphasizing Sustainable Education [ESESE]”, Co-PI: Molly Weinburgh and Mark Bloom, **\$285,003.00**. May 2009 – May, 2011.

JP Morgan Chase Foundation. “Math/Science/Language Camp”. Penny Bishop, Cecilia Silva, and Molly Weinburgh. **\$30,000.00**. April 2009-August 2009.

Dana Center, Teacher Quality Enhancement Grants. “Elementary Teachers Developing PCK in Outdoor Education”, Co-PI, Molly Weinburgh and Mark Bloom. **\$87,000.00**. May 2008 – September 2009.

Dana Center, Teacher Quality Enhancement Grants. “Elementary Teachers Developing PCK in Outdoor Education”, Co-PI, Molly Weinburgh and Mark Bloom. **\$87,000.00** May 2008 – September 2009.

Texas Regional Collaborative Grant. “TRC with ESC XI, Year 4”, Lead institute – Region XI Educational Center. Partners – TCU (Molly Weinburgh) and Fort Worth Museum of Science & History.

- \$142,000.00.** March 2008 – February 2009.  
 Dana Center, Teacher Quality Enhancement Grants. “Increasing Teachers’ PCK and NOS in Biology”, Co-PI, Molly Weinburgh and Mark Bloom. **\$87,000.00.** May 2007 – September 2008.
- Texas Regional Collaborative Grant. “TRC with ESC XI, Year 3”, Lead institute – Region XI Educational Center. Partners – TCU (Molly Weinburgh) and Fort Worth Museum of Science & History. **\$142,000.00.** March 2007 – February 2008.
- Dana Center, Teacher Quality Enhancement Grants, “Increasing Content Knowledge and Pedagogical Skills Using Contemporary Issues in Biology”. Co, PI: Molly Weinburgh and Mark Bloom. **\$85,000.00.** May 2006 – September 2007.
- Dana Center, Teacher Quality Enhancement Grants, “Developing Content and Pedagogy for Earth/Space Science”. Co, PI: Molly Weinburgh and Lisa Bellows. **\$85,000.00.** May 2006 – September 2007.
- Texas Regional Collaborative Grant. “TRC with ESC XI, Year 2”. Lead institute – Region XI Educational Center. Partners – TCU (Molly Weinburgh) and Fort Worth Museum of Science & History. **\$120,000.00.** March 2006 – February 2007.
- Texas Higher Education Coordinating Board, Teacher Quality Enhancement. “Professional Development for Biology Teachers: Contemporary Issues in Biology”, Co-PI: Molly Weinburgh and Mark Bloom, **\$81,963.00.** April 2005 - September, 2006.
- Texas Regional Collaborative Grant. “TRC with ESC XI, Year 1”, Lead institute – Region XI Educational Center. Partners – TCU (Molly Weinburgh) and Fort Worth Museum of Science & History. **\$185,000.00.** March 2005 – February 2006.
- Texas Higher Education Coordinating Board, Teacher Quality Enhancement: Type B, “Contemporary Issues in Biology: Opportunities for Learning and Teaching”, Co-PI: Molly Weinburgh and Ray Drenner, **\$80,000.00.** April 2004 - September, 2005.
- Texas Higher Education Coordinating Board, Teacher Quality Enhancement: Type A, “Biology Module: Contemporary Issues in Biology”, Co-PI: Molly Weinburgh and Ray Drenner, **\$285,190.00.** January 2004 -January 2005.
- Texas Higher Education Coordinating Board, Teacher Quality Enhancement, “Bransom/Hommel Water Quality Project: Enhancing Teacher Change Through Partnerships, Co-PI: Molly Weinburgh and Ray Drenner, **\$77,685.00,** April 2003 - August 2004.
- Funds for the Improvement of Postsecondary Education (FIPSE), U.S. Department of Education, “Certificate in International Education: Developing Educators for a Global Society”, PI: Parker Blount (Georgia State University), Total award of **\$199,995.00.** Subcontract PI: Molly Weinburgh, \$54,673. October 1, 2002 - September 30, 2005.
- A.2 at GSU [\$6,202,874.00]*
- Eisenhower Higher Education, “Decatur Elementary Math and Science Project - Year 3”, Co-PIs: Lynn Hart and Molly Weinburgh, **\$31,545.00.** June 1, 2002 - May 2, 2003.
- Preparing Tomorrow’s Teachers Today, “Elementary Education Preservice Program Evaluation”, Co-PIs: Molly Weinburgh and Sunya Collier, **\$20,400.00.** February 2002 - August 2002.
- BellSouth, “Extending the PT3 to In-service Teachers”, PI: Molly Weinburgh, **\$35,000.** January 2000 - May 2001.
- National Science Foundation (NSF), “Teacher Enhancement Through an Elementary Science Education Partner”, PI: Bob DeHaan (Emory University), Collaborator Co-PIs: Molly Weinburgh (Georgia State University), Vernon Allwood (Morehouse School of Medicine), and Ben Canada (Atlanta Public Schools), **\$5.7 million** overall: \$768,171 to GSU. September 1995 - December 2000. NSF #9552864
- Eisenhower Higher Education, “The Decatur Elementary Math/Science Project: Enhancing Teacher Change – Year 2”, Co-PIs: Lynn Hart and Molly Weinburgh. **\$27,345.00.** June 2001 - March 2003.
- Eisenhower Higher Education, “The Decatur Elementary Math/Science Project: Enhancing Teacher Change”, Co-PIs: Lynn Hart and Molly Weinburgh. **\$20,345.00.** June 2000 - March 2001.
- Board of Regents (BOR), “Developing Teacher Education Exchange: University of Cape Coast and Four University System of Georgia Schools”. Dr. Fobih, Dr. McIntosy, Dr. Call, Dr. Weinburgh, and Mr. Paracka. **\$18,200.00.** March 2000 - December 2000. (GC&SU #1047636250337)
- National Science Foundation (NSF), “Integrating Gender Equity and Reform”, Co-PI: Beth Farokhi; Strand Leader: Molly Weinburgh, **\$141,000.00.** September 1995 - July 1998.



SouthEastern Regional Vision for Education (SERVE), “An Interpretative Study of Elementary School Teachers’ Conception of the Nature of Inquiry and of Their Roles While Participating In An Inquiry Based Science Curriculum”. PI: Molly Weinburgh, **\$15,120.00**. Jan. 1998 - June 1998.

Quality Improvement Funds (QIF), “Hands-on Equipment for Early childhood Science Instruction”, Co-PIs: Olga Jarrett and Molly Weinburgh, **\$8,500.00**. January 1997 - June 1997.

Council for Public Broadcasting (CPB), “Developing Technology Rich Educational Environments in Science”, PI: Kathy O’Neill, Co-PI: Molly Weinburgh, **\$5,000.00**. September 1996 - July 1997.

Principles of Educating Teachers (POET), “University/school collaboration for the Enhancement of Math, Science, Technology Integration for Teacher Education”, Co-PIs: Molly Weinburgh, Laura Smith, Olga Jarrett, and Kathy Smith, **\$4,011.00**. September 1996 - July 1997.

Coca Cola, “Developing technology rich educational environments”, PI: Kathy O’Neill: writers: Molly Weinburgh, **\$106,000.00**. 1995 -1996.

Eisenhower, “Science/Math Academy: Enhancing middle grades science and math teaching through strengthening content”, PI: Molly Weinburgh and Joan Jones, **\$22,476.00**, 1995 -1996.

Quality Improvement Grants (QIF), “Creating a demonstration instructional area as an open access resource”, Molly Weinburgh, **\$47,932.00**, 1994 -1995.

#### B. Not Funded [>\$8 Million]

NSF, “PIRE: Dissecting the Milky Way and 1000s of Nearby Galaxies with SDSS-IV, PI – Peter Frinchaboy; Co-PIs – Kat Barger and Molly Weinburgh. **\$6,500,000.00**. September 2015 to August 2019.

AT&T, “Developing Academic Language in Mathematics and Science for ELL students”, Co-PI: Cecilia Silva, Molly Weinburgh, and Kathy Smith, **\$57,642.00**. September 2007-June 2010.

National Science Foundation, Robert Noyce Scholarship Program, “Creating Urban Educators in Science. Co-PI: Molly Weinburgh, Cecilia Silva, and Ray Drenner, **\$182,000.00**. Sept. 2007- June 2011.

American Honda Foundation, “Math, Science, and Language Camp”, Co-PI: Molly Weinburgh and Cecilia Silva. **\$41,000**. May 2006 - August 2006.

National Science Foundation, Robert Noyce Scholarship Program, “Creating Urban Educators in Science. Co-PI: Molly Weinburgh, Cecilia Silva, and Ray Drenner, **\$182,000.00**. Sept. 2006 – June 2010.

Howard Hughes Medical Institute. “Contemporary Issues in Biology: A Precollege Teacher Enhancement Program”, Co-PI: Ray Drenner and Molly Weinburgh. Asking for **\$1,300,000.00** over four years.

National Science Foundation, Robert Noyce Scholarship Program. “Creating Urban Educators in Science. Co-PI: Molly Weinburgh, Cecilia Silva, and Ray Drenner, **\$92,000.00**. Sept. 2005 – June 2009.

National Science Foundation (NSF), “Invigorating and Educating STEM faculty: A Paradigm Shift for Faculty “Co-PI: Molly Weinburgh and Ray Drenner. **\$58,235.00**. August 2002 - August 2004.

#### 5G. Internal Support

##### A. Funded [>\$27,000.00]

###### *A.1 at TCU*

TCU Invests in Scholarship. “Examining science discourse practices in emergent multilingual students: A semiotic and hermeneutic approach. **\$11,070.00**. June 2019- August 2020

Global Engagement Grant. “Vietnam Partnership/Teaching Internship. Amber Esping and Molly Weinburgh. **\$5,200.00**. May 2018 – August 2018.

Instructional Development Grant. “Developing a Service-Learning Partnership with Hanoi University of Education (Vietnam)”. Co-PI: Amber Esping and Molly Weinburgh. **\$3,608.00**. October 7, 2016 to October 7, 2017.

Andrews Institute Grant, “Math, Science, Language (MSL) Retelling Study”. Co-PI: Robin Griffith, Michael Fagella-Luby, Cecilia Silva, and Molly Weinburgh. **\$405.00**. June 2014 – August 2014

TCU Research and Creative Activities Fund, “Churchill Higher Achievement in Mathematics Project”. PI: Molly Weinburgh. **\$1,150.00**. June 1, 2010 – May 31, 2011.

TCU Instructional Development Funds, “Enhancing Undergraduate Teacher Candidate Education through Video Analysis”. Co-PI: Mary Patton and Molly Weinburgh. **\$3,085.00**. June 2005-May 2006.

TCU Instructional Development Grant, “Using a 3-Dimensional Projector To Enhance Science Instruction”, PI: Molly Weinburgh, **\$2,000.00**, June 1, 2003 to May 31, 2004.

TCU Research and Creative Activities Funds, “A pilot investigation of a new model of supervision/mentoring”, Co-PI: Judy Groulx and Molly Weinburgh, **\$2,110.00**, November 2, 2003

to May 30, 2004.

TCU Research and Creative Activities Fund, “Using the Reflective Teaching Model to Change Elementary Teachers’ Behaviors and Beliefs About Teaching Science and Math”, PI: Molly Weinburgh, **\$1,800.00**. October 2002-June 2003.

*A.2 at GSU*

GSU, College of Education Proposal Development Grant, “Science Education and/or Opportunities for Female Students”, PI: Molly Weinburgh, **\$4,000.00**. September 2001- May 2002.

GSU, College of Education Scholarly Inquiry Grant Program, “Fifth Grade Students’ Attitudes Toward Science: Evaluation of the Elementary Science Education Partners Program”, PI: Molly Weinburgh, **\$1,500.00**, January-June 2001.

GSU, College of Education Preparing Tomorrow’s Teachers Today, “Elementary Education Preservice Program Evaluation”, Co-PIs: Molly Weinburgh and Sunya Collier, **\$8,300.00**. November 2000-June 2001.

GSU, Improving Instruction Grant. “Developing a Cross-Discipline, Web-based Freshman Core Course”. Co-PIs: Molly Weinburgh, Sam Deitz, and David Vanko. **\$3,900.00**. June 2000-June 2001.

5H. Endowments [\$6,000,000.00 with help of Advancements and Donor Relations]

Andrews Foundation Gift \$500,000.00 in 2016

Paul and Judy Andrews Gift \$5,000,000.00 in 2007

Greater Texas Foundation Gift \$500,000.00 in 2006

**6. SERVICE**

6A. Department Service (prior to TCU) [no departments within the College of Education]

*Department of Early Childhood Education (ECE) at Georgia State University*

Search Committee, Math position (1998)

BSE Committee, ECE (1996-2002)

Pre-K Committee, ECE (1996-2002)

Ph.D. Committee, ECE (1996-2002)

6B. College Service

A. TCU College of Education

Cabinet, (2007-2010; chair, 2009-10), 2022-2025

Cooks Children Hospital IRB from TCU (2014-2025)

Search Committee for Curriculum Studies, 2021-2022

Advisory Committee, 2021-2022

Literacy Institute, 2021-2022

Diversity, Equity, and Inclusion Committee, 2018-2020

Faculty 180 Committee, 2018

COE Honors Committee, 2016 - 2018

Departmental Institutional Review Board, 2016-2019

Doctoral Advisory, 2016

Tenured Faculty committee, 2016

Ad Hoc Travel committee, 2016

Ad Hoc Full Professor committee, 2016

Pre-tenure group, organizer, 2016 - 2017

Ad Hoc FWISD Collaboration, 2016

Ad Hoc Masters+Certification, 2016

Search Committee for Science Education, (2011-2012), chair

Search Committee for Mathematics Education, (2009-2010)

Institutional Coordinator – AERA, Assessment of Education Research Doctorate Programs (2009-2010).

Search Committee for Dean of College of Education (2008-2009), chair

Search Committee for Mathematics Education (2008-2009), chair

Search Committee for Special Education Endowed Chair (2008-2009)

Search Committee for Science Education (2007-2008), chair

Search Committee for Mathematics Education (2007-2008)  
Search Committee for Science Education (2006-2007), chair  
Tenure Review Committee (2003- present)  
EC-4 Committee, TCU (2002-present)  
Middle/Secondary Committee, (2004-present), co-chair  
Social Studies Search Committee, TCU (2003-04)  
Graduate Programs in Science and Science Education, TCU (2002)  
Undergraduate Programs in Science, TCU (2002)

#### B. TCU Honors College

Honors College Advisory Council, 2016-2020  
Tenure & Promotion (Akagi), 2017-2021  
Honors College Council, 2016-2018  
Faculty Search Committee, 2016  
Fogelson Forum Planning Committee, 2015-2016  
Fogelson Forum Planning Committee, 2014-2015

#### C. GSU (1993-2002)

Diversity Committee of the Professional Education Faculty, Chair, GSU (1998-2002)  
Advisory Board for Preparing Tomorrow's Teachers, GSU (1999-2002)  
Instructional Technology Center Advisory Board, GSU (1999-2002)  
Diversity Committee of the Professional Education Faculty, GSU, Chair (1998-present)  
Instructional Technology Center Advisory Board, GSU (1999)  
Faculty Affairs, member, GSU (1997-1999)  
Leadership Team, Integrating Gender Equity and Reform, GSU (1995-1998)  
Search Committee, Local Coordinator for Elementary Science Education Partners, GSU (Fall 1995)  
Advisory Board, TREE's Project, Coke Cola funded project, GSU (1995-1997)  
Liaison Committee for College of Education Instructional Technology Center, GSU (1995-1996)  
Search Committee, MSIT department chair, GSU (Spring, 1995)  
GSU Legislative Reception, representing "best programs" of College of Education, ESEP, January 1998.  
GSU Legislative Reception, representing "best programs" of CoE, Technology, January 1995.  
GSU Legislative Reception, representing "best programs" of CoE, Diversity Education, January 1994  
NCATE, Curriculum and Instruction Committee (1992-1995)  
Student Georgia Association of Educators faculty advisor (1991-1996)

### 6C. University Service

#### A. TCU

STEM Scholar Committee, 2018-2020  
AD Hoc O.D. Wyatt Partnership Committee, 2018  
University Council, 2017-2020  
Ad Hoc Faculty Senate "Raising TCU's Academic Profile" – AY 2016-2018  
University Advisory Committee (Tenure & Promotion) – Fall 2016- Spring 2019  
Search Committee, Director of Development – Summer 2016  
Add Hoc Committee on Human Resources Building – 2014- present  
Women and Gender Studies, Curriculum Committee, 2015  
Honors College Review Committee, 2014-2015  
Research Group (Bonnie Melhart, chair), 2011-2016  
Human Subject Review Committee, 2007-2011  
Quality Enhancement Council, 2006- present  
University Advisory P & T Committee 2005-2007  
Graduate Council 2005- 2008  
HHMV Committee 2005 -2007  
Size, Mix and Residentially Committee, convener 2004  
Center for Teaching Excellence, Advisory Board 2003-2006  
Human Subjects Review Committee 2003-2006  
University Senate, 2003-2006

Tenure, Promotion & Policy Committee  
Curriculum Advisory Committee, 2002-2005  
Adam's Chair Search Committee, 2002

B. GSU (1993-2002)

Vice President for Research and Sponsored Programs Search Committee, member, 1999-2000  
Faculty Senate, member from ECE, assigned to Research and Diversity committees, 1998-2001  
Prejudice Awareness Summit; Exploratory Committee, 1999  
Diversity Education Programs Advisory Board, 1998 to 2002  
Professional Education Committee, Diversity chair, 1997 to 2002  
Professional Education Committee, Executive committee, 1997-2002  
Project LINK, Cote d'Ivoire visiting team, 1996 to 2002  
Faculty Senate, 1993-1995  
Research, Diversity, and Budget committees  
German/GSU Exchange Program, host, April 1996  
Gender Equity Team, 1994 to 2002  
Advisory Board, Integrating Gender Equity and Reform, NSF funded project, 1995-1997  
Georgia Science Olympiad, Regional Tournament, session coordinator, 1996  
Georgia Science Olympiad, State Tournament, session coordinator, 1995  
Faculty Liaison for Educational Partnership with Fulton High School, 1991-1994  
Student Affairs Committee, member, 1991-1993

6D. Professional Service to Community

A. Community Committees (also see Professional Memberships for other committee work)

Out Teach National Education Committee, 2018-2020  
BRIT Education Committee – 2015 - 2020  
FWISD/Devon Energy for Teaching Excellence in Secondary Science Selection Committee – 2014-2018  
FWISD/Lockheed Martin Elementary Math and Science Chair Selection Committee – 2009-2013  
FWISD Science Steering Committee, 2008  
PASS, Fort Worth ISD, 2007  
Campus Educational Improvement Committee, Tanglewood Elementary School, FWISD, 2002-2003  
Science Curriculum Review Committee, City Schools of Decatur, 2002  
Staff Development Committee, Elementary Science Education Partners, 1995-2001  
Executive Committee, Elementary Science Education Partners, 1995-2001  
Metro-Atlanta P-16 Academic Standards Development Committee, 1997-1999  
Staff Development Committee, Elementary Science Education Partners, 1995-2001  
Executive Committee, Elementary Science Education Partners, 1995-2001  
Science Curriculum Review Committee, Atlanta Public Schools, 1996

B. Advisory Boards

MSoMI Academy for Girls National Board, 2018-2022  
Out Teach (was REAL School Gardens) Regional Advisory Board, 2018-2021  
Texas A&M *English Language and Literacy Acquisition-Validation* NSF grant, Study Advisory Board  
2013-2016  
River Legacy Board of Directors, 2005-2009  
Films for the Humanities, 2006-2009  
Advisory Board to Gender Equity and Disability Subpanel, National Gender Equity Expert Panel, OERI,  
1997  
Fort Worth ISD PASS, 2006-2008  
Channel 13: PBS, "The Secret Life of the Brain", five part video series, 2000-2002  
Project Inquiry: Building a Presence for Science in the Lowcountry, NSF funded TE Grant, 1999- 2004  
Curriculum Advisory Board, Atlanta Girls' School, 1999-2002  
Girls Incorporated, NSF funded "Teaching Smart", 1999-2002  
Gender Equity and Disability Subpanel of the Gender Equity Expert Panel, US Department of Education's  
Office of Educational Research and Improvement, 1997-2001  
Elementary Science Education Partners, 1995-2001

## 6E Professional service

### Editor

*Electronic Journal of Science Education*, 2011 to 2019

### Associate Editor

*Journal of Science Teacher Education*, 2022-2025

### Editorial Review Board

*Electronic Journal of Science Education*, 2005-2011

*Journal of Science Teacher Education*, 2003-2007

*Journal of Research in Science Teaching*, 2002-2006; 2022-2025

*Journal of Elementary Science Education*, 2000-2005; 2007-2010

*Journal of Science Education for Students with Disabilities*, 2001-2006

### Reviewer

#### *Journals*

Science Education, 2002- present

International Journal of Science Education' 2018 (invited)

Journal of Science Teacher Education 2016 to present

School Science and Mathematics, 2016 to present

Journal of Teacher Education, 2014 to present

Journal of Research in Science Teaching, 1998-to present.

Georgia Educational Researcher, 1996-2002

International Journal of Qualitative Studies in Education, 2017 (invited), 2018 (invited)

Journal of Elementary Science Education, 1996-2016

Journal of Science Education for Students with Disabilities, 1998 (invited), 2001 (invited), 2014 (invited), 2017 (invited)

American Educational Research Journal, student reviewer, 1993

#### *Other*

Chapter "Scientific Investigations" for *Nature of Science* book edited by Bill McCommas.

NSTA Book, *Building the Department*, January 31, 2017.

Palgrave/Macmillan Book, *Teaching science to English language learners: Preparing pre-service and in-service teachers*. De Oliveira & Wilcox (Eds). March 1, 2017.

#### *Conferences*

National Association for Research in Science Teaching

Strand 6 co-chair of strand, 2000-2001

Strand 4 conference proposals, 2000 - 2010

Strand 6 conference proposals, 1998 - 2014

Association of Science Teacher Educators

Strand coordinator 2008

Strand coordinator 2007

Reviewer for conference proposals, 1998 through 2018

Southern Association for the Education of Teachers in Science

Conference proposals, 1997, 1998, 1999, 2000, 2001

Southwestern Association of Science Teacher Educators

Conference proposals 2002 to 2013

Association for the Education of Teachers in Science sessions: Fall 1997 NSTA regional

Association for the Education of Teachers in Science conference proposals, 1997

American Educational Research Association,

Conference proposals, 2002, 2003

National Educational Computing Conference,

Conference proposals, 2000

Georgia Department of Education, Document for Counselors: K-12, Gender Equity sections, 1995

#### *Grants*

National Science Foundation – ADVANCE Catalyst proposals, December 2021  
National Science Foundation ITEST, 2015, 2016  
National Science Foundation Noyce Scholarship, 2014  
Georgia State University Research Initiation Grant, 1994, 1995  
Georgia Association for Supervision and Curriculum Development Mini-grant competition, 1994

Membership (\*active member)

National Association of Research in Science Teaching (NARST)\*  
2000-02 Culture, Social and Gender Issues; Co-coordinator of stand  
1996-99 Equity Committee

Association of Science Teacher Educators (ASTE)\*  
2011-17 Ad Hoc Committee on New ASTE Publication  
2008-11 Publication Committee  
2008 Conference strand coordinator  
2007 Conference strand coordinator  
2002 Past President  
2001 President  
2000 President-elect  
1998-01 Member of Board  
1998-01 Committee on Membership and Communication, chair  
1997-98 Leadership team, member  
1997-98 Committee for Inclusive Science Education, associate member  
1997-98 Ad Hoc Committee on Structure and Finances of ASTE Annual Meetings, member  
1996-98 Ad Hoc Committee on Mentoring, member  
1995-97 Ad Hoc Committee on Conventions, member

National Science Teachers Association (NSTA)\*  
1997 ASTE session representative, Nashville, TN  
1996 Local Arrangement Committee: Area Convention, Co-liaison

School Science and Mathematics (SSMA)\*  
2005-08 Finance Committee  
2004-05 Local Arrangement Committee  
2002-05 Policy Committee  
1999-02 Membership Committee

Southwestern Association of Science Teacher Educators (SW-ASTE)\*  
2007 President  
2006 President-elect  
2004 Program Committee  
2002-04 Planning Committee  
2006-07 Planning Committee  
2012-13 Planning Committee

American Educational Research Association (AERA)  
2003 Discussant  
2002 Discussant  
1995 SIG:EST liaison to Committee on Role and Status of Women in Educational Research and Development  
1994 SIG:EST paper session reviewer

American Association of University Women (AAUW)

American Association for the Advancement of Science (AAAS)  
2001 Nominated for Electorate Nominating Committee of Section Q

Southeastern Association of Science Teacher Educators (SASTE)  
1998-01 Regional Director  
1997-08 Past-president  
1996-07 President  
1995-06 President-elect

Georgia Educational Research Association (GERA)  
1999-01 Executive Council, Member-At-Large

1997-99 Outstanding Research Committee, chair  
 1992-93 Executive Council, student member  
 Georgia Association of Teacher Educators (GATE)  
 Council of Science Society Presidents (CSSP) 1999-2002  
 2002 Committee on Math and Science Education, Chair

6F. Advising (academic year)

	Undergraduate	M.Ed. Science Ed	M.Ed. C&I: Science	Ph.D. Science Ed	Total
2003-2004	25				25
2004-2005	27				27
2005-2006	22	4		4	30
2006-2007	21	4		7	32
2007-2008	24	2		12	38
2008-2009	26	2		12	40
2009-2010	28	4		12	44
2010-2011	21	5		11	37
2011-2012	9	9		12	30
2012-2013	9	9		12	30
2013-2014		8		14	22
2014-2015		8		15	23
2015-2016		5		13	18
2016-2017		5		14	19
2017-2018		3	1	16	20
2018-2019			3	12	16
2019-2020			1	13	14
2020-2021			1	13	14
2021-2022			1	13	14
2022-2023			7	14	21