Gail Dickinson, Associate Professor of Science Education
Department of Curriculum and Instruction, Texas State University
Cell: 512-351-6134

ACADEMIC/PROFESSIONAL BACKGROUND

EDUCATIONAL BACKGROUND

Ph.D.	2000	University of Texas at Austin	Curriculum and Instruction	The Effects of Computuer Simulated Experiments on High School Biology Students' Problem Solving Skills and Achievement
M.S.	1989	Utah State University	Instructional Technology	The Development, Implementation and Evaluation of a Level III Videodisc Shopping Program for the International Student Orientation at Utah State University
Teaching Certificate	1987	University of Oregon	Secondary Science Education	
B.A.	1985	University of Delaware	Biology and History	

UNIVERSITY EXPERIENCE

Associate Professor Science Education	Texas State University	9/13-present
Assistant Professor Science Education	Texas State University	8/07 – 9/13
Master Teacher/Lecturer	University of Texas at Austin	9/99 - 8/07
Instructor	Utah State University	10/88 - 12/88
Research Assistant- classroom observer	Utah State University	10/87 - 5/89
Research Assistant- graphic designer	Utah State University	11/88 - 5/89
Laboratory Instructor	University of Delaware	1/84 - 5/85

RELEVENT PROFESSIONAL EXPERIENCE

Science Teacher	Austin Independent School District, Austin, TX	8/89 - 5/99
Science Department Chair	Austin Independent School District, Austin, TX	8/97 - 5/98

OTHER PROFESSIONAL CREDENTIALS

Oregon Teaching Certificate – Secondary Biology	1987 - 1990
Texas Teaching Certificate – Secondary Biology (Grades 6-12)	6/13/90 - present
Texas Teaching Certificate – Secondary Science Composite (Grades 6-12)	7/25/95 - present

TEACHING

TEACHING HONORS AND AWARDS:

Alpha Chi National College Honor Society Favorite Professor, Texas State University—San Marcos, 2010, 2015.

Instrumental in bringing the ISTE NETS*T Distinguished Achievement Award to UTeach (2002).

Only high school teacher selected nationally to participate in the BSCS field test of *Bringing RNA into View*. (1998-1999).

One of 100 teachers selected nationally by the Tandy Corporation to receive the Tandy Technology Scholars Award for excellence in science teaching (1997).

Selected as one of 15 teachers statewide to participate in the 1996-1997 TENET Emerging Technologies Institute. Each teacher received a Silicon Graphics O2 machine and training.

Austin Association of Teachers Creative Teaching Award - Secondary Curriculum Division (1996).

One of 100 teachers selected nationally by the National Science Teaching Association and Genentech to receive the Access Excellence Award for Innovative Biology Teaching (1995).

Recognized with an Award of Merit for being one of the top 20 entrants nationally in the first annual TIME Magazine/AT&T K-12 Internet Contest (1995).

Recognized by Senator Gonzalo Barrientos for participation in Technology Today for Texans Tomorrow, a legislative update held January 30-31, 1995 at the State Capitol of Texas.

Selected as one of 15 teachers from Texas to participate in Spaceship Earth, Satellites in Education Training Institute at University of Texas (1992).

COURSES TAUGHT:

Texas State University - San Marcos

Undergraduate	**Graduate**
CI 4355 Science in the Elementary Classroom	CI 5339 Project-Based Instruction
CI 4343 Strategies in Secondary Education	CI 5329 Elementary Science Methods
CI 3315 Human Growth and Development	CI 5314 Adolescent Growth and Development
CI 4332 Secondary Teaching Curriculum Techniques	CI 5333 Curriculum in the Secondary Classroom
Phys 5370 Problems in Physics	CI 5376 Problems in Secondary Education
HON 3391W Service Learning	CI 7386 Directed Research
HON 4391 Independent Study	

University of Texas at Austin: College of Education

UTS 101 Step I
UTS 110 Step II: Introduction to Inquiry Teaching
EDC 365C Knowing and Learning in Mathematics and Science
EDC 365D Classroom interactions (UTeach program)
EDC 365E Project-Based Instruction
EDC 650S Student Teaching

Utah State University

T522 Computer Literacy for Educators

GRADUATE THESES OR EXIT COMMITTEES:

Masters Theses

Hesaaraki, S. (2021). Collaborative Mechanistic Reasoning: A Proposed Mechanism for Learning in Interactive Instruction. Department of Physics: Thesis Committee Member. San Marcos, TX: Texas State University.

Sangha, Rith (2017- 2019). *Barriers to Inclusive Education for Children with Disabilities in Rural Cambodia*. Department of Development Studies; Thesis Chair. Phnom Penh, Cambodia: Royal University of Phnom Penh.

Ray, S. (2015). *The effects of project-based instruction on students' comprehension of chemistry concepts and attitudes towards chemistry*. Department of Curriculum and Instruction; Thesis Chair. San Marcos, TX: Texas State University.

Kaul, J. (2014). *Sustainability in America: An assessment*. Thesis Chair. San Marcos, TX: Texas State University.

Sundrani, A. (2012-2015). *The effects of socioeconomic status and teaching methods on high school students' mathematical concept attainment*. Department of Curriculum and Instruction; Thesis Chair. San Marcos, TX: Texas State University. (incomplete)

Hamilton, T. (2011-2013). *Project-based instruction: A teacher's view*. Department of Curriculum and Instruction; Thesis Chair. San Marcos, TX: Texas State University. (incomplete)

Henrichs, E. (2011). *Interactive word walls and student perceptions of vocabulary. Department of Curriculum and Instruction*; Thesis Committee Member. San Marcos, TX: Texas State University.

Jiang, C. (2010-2011). *Cultural representations of Chinese youth in US cartoon programs*. Department of Curriculum and Instruction; Thesis Committee Member. San Marcos, TX: Texas State University.

Carlisle, K. (2008). Department of Curriculum and Instruction; Thesis Committee Chair. San Marcos, TX; Texas State University.

Masters Examinations

Lindsay Cooper, Oral Examination Committee Member	2015
John Griffis, Written Examination Committee Member	2011
Kim Loner, Oral Examination Committee Member	2010

Senior Honors Thesis

Tolbert, D. (2018). *To Reform or Not to Reform: Cambodian Beliefs and Attitudes Toward Education Reform and Changes to Their National Grade 12 Examination*. Honors College. Honors Thesis Chair. San Marcos, TX; Texas State University.

Berry, S. (2015). *Our River Project: Exploring the Efficacy of Field Trips to Positively Influence Children's Attitudes Toward Science and Conservation.* Honors College. Honors Thesis Committee Member. San Marcos, TX; Texas State University.

Lewis, R. (2015). *Elementary Science Anxiety: Impact of Experience and Gender*. Honors College. Honors Thesis Committee Member. San Marcos, TX; Texas State University.

Martinez, R. (2011). *Grading Cambodia's Education: Problems & Solutions to Cambodia's Higher Level Education*. Honors College. Honors Thesis Committee Chair. San Marcos, TX; Texas State University.

COURSES PREPARED AND CURRICULUM DEVELOPMENT:

Comparative Educational Systems, CI5325
Project-Based Instruction (CI5339) online version
Cambodia summer study abroad program
Online Learning and Course Design, EDTC 5334
Project-Based Instruction, CI5339

FUNDED EXTERNAL TEACHING GRANTS AND CONTRACTS:

YSEALI Regional Workshop: Empowering Southeast Asian Educators. (2018). Co-wrote a grant to the US State Department to provide a three-day Young South East Asian Leadership Initiative (YSEALI) workshop on the topic of education. I was in charge of the pre-workshop program and workshop program as well as evaluation. $250,000 awarded to The Asia Foundation, Texas State subcontract for $8500.

Fulbright Award to Cambodia (2015). Only senior scholar selected nationally to teach and do research in Cambodia during the 2015-2016 academic year.

Toyota Tapestry Award (1998). One of 50 teachers selected nationally by the National Science Teacher's Association. This grant provided supplies for a research study conducted by my AP Environmental Science students. In this study, students used PFGE to create a DNA fingerprint library of *E. coli* strains isolated from known organisms. This library will be compared with libraries from other states and will be used to identify non-point *E. coli* in a local stream. $10,000.

Tools for Schools Grant (1996). This grant funded supplies for a collaborative between the Austin Children's Museum, students in my Marine Science class and fifth grade elementary students at a predominantly Hispanic elementary school. High school students and elementary students worked together in teams to design and build interactive exhibits for the Children's Museum.

Armed Forces Communications and Electronics Association Science Teaching Tools Award (1996). This grant funded a collaborative effort between myself and a non-magnet biology teacher where I trained the teacher in preparing and managing biotechnology labs.

Junior League of Austin ABC Grant (1995). This grant funded supplies for an outreach program in which my Marine Science students prepared and presented fifteen-minute mini-lessons to elementary students.

TEA TENET mini-grant (1994). This grant provided a computer for students to use for Internet Access in an interdisciplinary project exploring the social, biological and ethical ramifications of AIDS and the Bubonic Plague.

FUNDED INTERNAL TEACHING GRANTS AND CONTRACTS:

Service-Learning Faculty Fellows Program (2011).

FastTex Grant (University of Texas, 2006) funded the redesign of the UTeach Project-Based Instruction website including instructional videos on the astronomy and coast field experiences.

Austin Independent School District Incentive Grant (1994). This grant provided a computer for students to use for Internet Access in an interdisciplinary project exploring the social, biological and ethical ramifications of AIDS and the Bubonic Plague.

SCHOLARLY/CREATIVE

WORKS IN PRINT

TEXTBOOKS:

Dickinson, **G.**, Frankhauser, A., Hall, B., & Laster, T. (2006). *ASKME On-line Biology Course*, University of Texas Virtual High School. http://www.utexas.edu/ce/k16/cbe-ea/askme/overview/

BOOK CHAPTERS (*refereed, †invited):

*Soth, S., & Dickinson, G. (2026). Building model schools: A longitudinal case study of education reform in Cambodia. In J. W. Han (Ed.) *Pedagogical Innovation in Southeast Asia: Contextual Practices and Bridging Gaps*. Routlege (Accepted, in preparation).

*Dickinson, G. (2018). Cambodia's emerging bilingual education programs: Success in a system in crisis. In B. G. Guzman Johannessen (Ed.) *Bilingualism and Bilingual Education: Politics, Policies and Practices in a Globalized Society*. Springer: The Netherlands.

*Johannessen, B. G., Thorsos, N., & **Dickinson, G.** (2018). Politics and policies affecting bilingual teacher preparation practices in United States: A tale of two programs. In B. G. Guzman Johannessen (Ed.) *Bilingualism and Bilingual Education: Politics, Policies and Practices in a Globalized Society*. Springer: The Netherlands.

***†Dickinson, G.** & Summers, E. J. (2012). Building capacity in secondary project-based instruction. In B. Boufoy-Bastick (Ed). *Cultures of teacher education: comparative international issues of curriculum, pedagogy and attainment*. Analytics: Strasbourg, France.

***†Dickinson, G**., Summers, E. J., & Jackson, J. K. (2010). Developing expertise in project based science: A longitudinal study of teacher development. In R. E. Yager (Ed). *Science for resolving issues/problems*. NSTA Press: Arlington, VA.

REFEREED JOURNAL ARTICLES:

Sot, V., Soth, S., & **Dickinson, G**. (2019). Four decades of teacher development: Teacher preparation and teacher upgrading programs in Cambodia from 1979 to 2018. *Cambodia Education Review*, *3*(1), 115-139.

Johannessen, B. G., Thorsos, N., & **Dickinson, G**. (2016). Bilingual Education Perspectives: Current Conditions of Bilingual Teacher Preparation Programs in Public Universities in USA. *Bilingual Research Journal*.

Summers, E. J., & **Dickinson, G**. (2012). A longitudinal investigation of project based instruction and student achievement in high school social studies. *The Interdisciplinary Journal of Problem Based Learning*, *6*(1), 82-103.

Dickinson, G., & Summers, E. J. (2011). Science notebooks as a teacher training tool. *International Journal of Science in Society*. *2*(2), 203-222.

Dickinson, G., & Summers, E. J. (2010). (Re)Anchored video centered engagement: The transferability of preservice training to practice. *Contemporary Issues in Technology and Teacher Education*, *10*(1). Retrieved from http://www.citejournal.org/vol10/iss1/science/article1.cfm.

Jackson, J. K., **Dickinson, G.,** & Horton, D. (2010). Rocks and rhymes! A geoscience activity combining field notes and poetry. *The Science Teacher*, *77*(1), 27-31. (acceptance rate = 25%, total circulation = 28,500, reading pass-along = 3).

Dickinson, G., & Jackson, J. K. (2008). Planning for success: How to design and implement project-based science activities. *The Science Teacher*, *75*(8), 29-32.

Jackson, J. K., Allen, G., & **Dickinson, G**. (2008). Connections, charts and book talk groups: Support science instruction with these useful strategies. *Science and Children*, *46*(3), 27-31.

Siegel, L., **Dickinson, G.**, Hooper, E., & Daniels, M. (2008). Teaching algebra and geometry concepts by modeling telescope optics. *Mathematics Teacher, 101*(7), 490-497.

Petrosino, A. J., & **Dickinson, G**. (2003). Integrating technology with meaningful content and faculty research: The UTeach Natural Sciences Program. *Contemporary Issues in Technology and Teacher Education*, *3*(1). Retrieved from http://www.citejournal.org/vol3/iss1/general/article7.cfm.

Bucci, T., Petrosino, A. J., Bell, R., Cherup, C., Cunningham, A., Cohen, S., **Dickinson, G**., Ervin, J., Hofer, M., & Wetzel, K. (2004). Meeting the ISTE challenge in the field: An overview of the first six distinguished achievement award winning programs. *Journal of Computing in Teacher Education*, *21*(1), 11-21.

Dickinson (née) Carmack, G., & Howard, E. (1998). Exhibiting excellence. *The Science Teacher*, *65*(8), 36-39.

Dickinson (née) Carmack, G., & Budries, K. (1997). Connecting the biology classroom to the cyberworld: Problems and solutions. *National Consortium of Specialized Secondary Schools in Mathematics, Science and Technology (NCMSSST) Journal*, *3*(1), 15-17.

CONFERENCE PROCEEDINGS (*refereed)

*****Soth, S. & **Dickinson, G.** (March, 2026). *Technology-Enabled Education Reform in Post-Conflict Cambodia*. Society for Information Technology & Teacher Education. Philadelphia, PA. (Accepted)

***Dickinson, G.** (January, 2026). *From Policy to Practice: A Keystone Individual's Role in Cambodian Education Reform.* 10th World Conference on Qualitative Research. Madrid, Spain. (Accepted)

*** Dickinson, G.** & Soth, Sok (January, 2026). *Divergent Paths: Principals' Responses to Educational Reform in Cambodia.* 10th World Conference on Qualitative Research. Madrid, Spain. (Accepted)

*Stephanoff Hartin, E., & **Dickinson, G**. (February, 2025). *The influences of inquiry-based field experiences on the positioning of undergraduate pre-service elementary teachers*. 9th World Conference on Qualitative Research. Krakow, Poland. Available: https://proceedings.science/wcqr-2025/papers/the-influences-of-inquiry-based-field-experiences-on-the-positioning-of-undergra?lang=en

***Dickinson, G**., Summers, E. J., & Jackson, J. K. (2010). Developing teacher expertise in project-based instruction. *Proceedings of the 2nd Paris International Conference on Education, Economy and Society*, Paris, France, 130-137. Retrieved from http://education-conferences.org/proceedings2010.aspx.

***Dickinson, G**., Jackson, J. K., & Petrosino, A. J. (2007). UTeach natural sciences: A streamlined approach to recruit, train and mentor science and mathematics teachers. *Proceedings of the 3rd International Forum on Teacher Education: Teacher Education Innovation and Teacher Professional Learning - Policies, Standards and Innovative Practices*, Shanghai, China, 69-82.

Dickinson (née) Carmack, G. (1994). Project MentorNet. *Technology and Teacher Education Annual, Proceedings of the 5th Annual Conference of the Society for Technology and Teacher Education*, Washington, DC, 714-716.

REPORTS:

Dickinson, G. (April, 2016). *An Evaluation of Cambodian Education Reform Efforts with Policy Recommendations for Moving Forward*. Report to H.E. Dr. Hang Chuon Naron, Cambodian Minster of Youth Education and Sport.

Dickinson, G. (January, 2016). *An Evaluation of the Masters Program for Lower Secondary Science Teacher Trainers*. Report to John C. Friend-Pereira, UNICEF officer in charge of funding for Khemarak University Masters Program for Lower Secondary Science Teacher Trainers.

Dickinson, G., & Summers, E. J. (May, 2010). *Understanding proficiency in project-based instruction: Interlinking the perceptions and experiences of preservice and in-service teachers*. A synthesis report prepared for Manor New Technology High School, Manor, TX. [Available: http://www.bobpearlman.org/newtechfoundation/Research/ManorReport_UT_SanMarcos_ejs&gd 1 .pdf]

BOOK REVIEWS:

Dickinson (née) Carmack, G. (1998). [Review of activities for *Meet the Microbes through MicrobeWorld Activities*]. *Meet the Microbes through MicrobeWorld Activities*. National Association of Biology Teachers: Reston, VA.

OTHER:

Dickinson (née) Carmack, G., & White. M. R. (1996). *Computer Science Applications*. Austin Independent School District: Austin, TX.

Halverson, W., **Dickinson (née) Carmack, G.**, Mendoza, P., Roberts, A., & Taylor. B. (1991). *Get to the Point: A Water Quality Curriculum for Texas Middle School Students*. Lower Colorado River Authority: Austin, TX.

<u>WORKS NOT IN PRINT</u>

PAPERS PRESENTED AT PROFESSIONAL MEETINGS: (*refereed)

*****Soth, S. & **Dickinson, G.** (March, 2026). *Technology-Enabled Education Reform in Post-Conflict Cambodia*. Society for Information Technology & Teacher Education. Philadelphia, PA.

***Dickinson, G.** (January, 2026). *From Policy to Practice: A Keystone Individual's Role in Cambodian Education Reform.* 10th World Conference on Qualitative Research. Madrid, Spain.

*** Dickinson, G.** & Soth, Sok (January, 2026). *Divergent Paths: Principals' Responses to Educational Reform in Cambodia.* 10th World Conference on Qualitative Research. Madrid, Spain.

***** Stephanoff Hartin, E., & **Dickinson, G**. (February, 2025). *The influences of inquiry-based field experiences on the positioning of undergraduate pre-service elementary teachers*. 9th World Conference on Qualitative Research. Krakow, Poland.

***Dickinson, G.** (December, 2024). *Making Environmental Studies Accessible for Emergent Bilingual Learners*. Region IV Bilingual/ESL Conference, Houston, TX.

***Dickinson, G**., Dye, J., & Stefanoff Hartin, E. (November, 2024). *Addressing Local Sustainability Problems Through the Engineering Design Process*. Conference for the Advancement of Science Teaching, San Antonio, TX.

***Dickinson, G.** (November, 2023). *Building a Better Bubble: Using Engineering Practices to Optimize Bubble Solutions*. Conference for the Advancement of Science Teaching. Houston, TX.

***Dickinson, G.** (March, 2023). *Fossil Evidence for Environmental Change in Antarctica and Central Texas*. National Science Teaching Association Conference. Atlanta, GA.

***Dickinson, G.** (November, 2022). *Fossil Evidence for Environmental Change in Antarctica and Central Texas*. Conference for the Advancement of Science Teaching. Dallas, TX.

***Dickinson, G.** (November, 2021). *People and the Biosphere: Hands-on Activities for Earth and Environmental Science*. Conference for the Advancement of Science Teaching. Fort Worth, TX.

***Dickinson, G.** (September, 2021). *EE Activities for Global Citizenship*. Presentation to the 44th Annual Conference of the Texas Association for Environmental Education. online

Dickinson, G. (October, 2020). *Using Online Pre-Conference Modules to Promote Collaboration and Curriculum Reform among Young Southeast Asian Teachers*. Paper presented at the Southwest Conference of Asian Studies. Online.

Dickinson, G., Rahmadianty, A., Puspitasari, R., Soeung, B., Lim, T. B., & Saladio Sapio, C. K. (October, 2020). *South East Asian Response to Teaching and Learning in a Pandemic*. Panel presentation at the Southwest Conference of Asian Studies. Online

***Dickinson, G.** & Short, L. (November, 2020). *Using Real World Data for Elementary Environmental Education*. Conference for the Advancement of Science Teaching. Online.

***Dickinson, G.** (April, 2017). *Retooling Cambodia's Teachers: Progress and Challenges of National Reform Efforts.* Paper presented at the 19th annual International Research in Education Conference. Athens, Greece.

***Dickinson, G.** (June, 2016). *Challenges of Faculty Development in Southeast Asia*. Paper presented at Measuring The Un-Measurable: Teaching and Learning Symposium. University of Macau, Macau.

***Dickinson, G**. (March, 2016). *Retooling Cambodia's Teacher Trainers: Progress and Challenges of National Reform Efforts.* Paper presented at the 2016 Fulbright US Student Researcher and Scholar Enrichment Workshop. Jakarta, Indonesia.

Johannessen, B. G., Thorsos, N. & **Dickinson, G.** (March, 2016). *Perspectives on Bilingual Education Preparation Programs in the United States*. Paper presented at the annual meeting of the National Association for Bilingual Education, Chicago, IL.

Johannessen, B. G., Thorsos, N. & **Dickinson, G.** (March, 2015). *Two perspectives on bilingual teacher education*. Paper presented at the annual meeting of the National Association for Bilingual Education, Las Vegas, NV.

***Dickinson, G.,** & Johannessen, B. G. (January, 2015). Two views of project-based science. CT 16 Conference on Creative Teaching sponsored by the World Association for Case Method Research and Case Method Application, Vienna, Austria.

***Dickinson, G.,** Lemke, M., Ford, D., & Galloway, H. (April, 2015). *Training Next Generation American and Cambodian Science Teachers Through Cultural Exchange*. Paper presented at the annual meeting of NARST: A worldwide organization for improving science teaching and learning through research, Chicago, IL.

***Dickinson, G**., Ford, D., Galloway, H., & Lemke, M. (January, 2015). *Short-term study abroad impacts on American and Cambodian student attitudes.* Paper presented at the ACT 17 Conference on Creative Teaching sponsored by the World Association for Case Method Research and Case Method Application, Vienna, Austria.

***Dickinson, G**., & Johannessen, B. G. (January, 2014). *Two views of project based science.* Paper presented at the ACT 16 Conference on Creative Teaching sponsored by the World Association for Case Method Research and Case Method Application, Paris, France.

***Dickinson, G**., Ford, D., Lemke, M., Galloway, H., & Fata, N. (January, 2014). *Moving towards inquiry in a land of conformity: A tale of two universities.* Paper presented at the ACT 16 Conference on Creative Teaching sponsored by the World Association for Case Method Research and Case Method Application, Paris, France.

*Johannessen, B. G., Thoros, N., Gilbraeth, J., & **Dickinson, G**., (January, 2014). *Perspectives on bilingual teacher education programs in the United States*. Paper presented at the ACT 16 Conference on Creative Teaching sponsored by the World Association for Case Method Research and Case Method Application, Paris, France.

***Dickinson, G.** (May, 2014). *Designing project-based units: Keys for success*. Paper presented at the 2014 Stem Forum and Expo, New Orleans, LA.

Dickinson, G., (March, 2014). *Problem based instruction: Meeting the standards*, Paper presented to the New Horizons in STEM education conference, San Antonio, Texas.

***Dickinson, G.**, Un, L., Ford, D., Galloway, H., Lemke, M., & Ly, M. (ST) (April, 2013). *Moving towards inquiry in a culture that values authority: Cambodian student perceptions.* Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

***Dickinson, G.** (April, 2013). *Designing project-based science units: Keys for success*. Paper presented at the annual meeting of the National Science Teachers Association, San Antonio, TX.

***Dickinson, G**., Galloway, H. C., & Lemke, M. (April, 2013). *Transforming science learning at a Cambodian university: Bridges and barriers to inquiry.* Paper presented at the annual meeting of the National Science Teachers Association, San Antonio, TX.

*Gulacar, O., & **Dickinson, G.** (April, 2013). *Using Ubiquitous Presenter and Vernier probes to diagnose student conceptions in chemistry.* Paper presented at the annual meeting of the National Science Teachers Association, San Antonio, TX.

***Dickinson, G**. (April, 2012). *Addressing core standards through project-based instruction: Keys to success*. Paper presented at the annual meeting of the National Science Teachers Association, Indianapolis, IN.

***Dickinson, G**., & Gulacar, O. G. (March, 2012). *Using online discussion forums to enhance problem selection in a preservice project-based instruction course*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Austin, TX.

*Gulacar, O. G., & **Dickinson, G**. (March, 2012). *Promoting student discourse and assessment through the synthesis of pedagogy and technology: ubiquitous presenter and process oriented guided inquiry learning (POGIL)*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Austin, TX.

***Dickinson, G**., Ford, D., Galloway, H. C., & Lemke, M. (March, 2012). *Transforming Cambodian university science from lecture to inquiry: Cultural barriers and student responses*. Paper presented at the annual meeting of the National Association for Research in Science Teaching (NARST), Indianapolis, IN.

***Dickinson, G**., & Summers, E. J. (January, 2011). *Forging post-baccalaureate students into 21st century science teachers through constructivist principles of project based instruction*. Paper presented at the annual meeting of the Association of Science Teacher Educators, Minneapolis, MN.

***Dickinson, G**., Ford, D., Galloway, H. C., & Lemke, M. (December, 2011). *Transforming Cambodian university science from lecture to inquiry: An Odyssey*. Paper presented at the annual meeting of the World Education Research Association, Kaohsiung, Taiwan.

Dickinson, G., & Summers, E. J. (November, 2011). *Forging post-baccalaureate students into 21st century science teachers through constructivist principles of project based instruction.* Paper presented at the College and Career Readiness Initiative: Science and Math Faculty Collaborative Conference, Grapevine, TX.

*Lemke, M., **Dickinson, G**., Galloway, H., Buva, P.,(ST) & Ford, D. (October, 2011). *Transforming Cambodian university science from lecture to inquiry: Cultural barriers and student responses.* Paper presented at the annual meeting of the Southwest Association for Science Teacher Education, (SW-ASTE), Lubbock, TX.

*Galloway, H., Buva, P., (ST) **Dickinson, G**., Lemke, M., Ly, M., (ST) Martinez, R., (ST) Pen, S., Ford, D., & You, T. (March, 2011). *Science curriculum for a Cambodian university: Teaching physics through transportation.* Paper presented at the annual meeting of the Texas Section of the American Physical Society Meeting, Nacogdoches, TX.

*__Dickinson, G__., & Summers, E. J. (November, 2010). *Science notebooks as a teacher training tool*. Paper presented at the Second Annual conference on Science in Society, Madrid, Spain.

*__Dickinson, G__., Summers, E. J., & Jackson, J. K. (July, 2010). *Developing expertise in project-based instruction*. Paper presented at the Second Paris International Conference on Education, Economy and Society, Paris, France.

*__Dickinson, G__., & Summers, E. J. (May, 2010). *Understanding proficiency in project-based instruction: Interlinking the perceptions and experiences of preservice and in-service teachers*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.

*Summers, E. J., & **Dickinson, G**. (May, 2010). *Country connectivity: Increasing academic success, learning, and engagement at a high tech rural high school.* Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.

***Dickinson, G**. (October, 2010). *ESP: Realizing goals two and three of NSES: Developing expertise in project-based science*. Paper presented at the National Science Teachers Association Regional Conference, Kansas City, MO.

***Dickinson, G**. (December, 2010). *ESP: Realizing goals two and three of NSES: Developing expertise in project-based science*. Paper presented at the National Science Teachers Association Regional Conference, Nashville, TN.

Dickinson, G., & Summers, E. J. (September, 2010). *Round two science mini-grants: Advancing implementation of the CCRS*. Paper presented at the Mathematics and Science Summit, San Antonio, TX.

*__Dickinson, G__. & Jackson, J. K. (March, 2009). *Designing quality project-based units for the science classroom*. Paper presented at the annual meeting of the National Science Teachers Association, New Orleans, LA.

*Jackson, J. K., & __Dickinson, G__. (March, 2009). *Using the 5E lesson plan to support teaching and learning*. Paper presented at the annual meeting of the National Science Teachers Association, New Orleans, LA.

*__Dickinson, G__. (June, 2008). *The effects of computer simulated experiments on high school biology students' problem solving skills*. Paper presented at the 2nd International Multi Conference on Society, Cybernetics, and Informatics, Orlando, FL.

*Hooper, E. J., **Dickinson, G.,** Pierson, J., Vice, H., Hemenway, M., & Oehler, K. (January, 2008). *Astronomy as an engaging hook for preservice teachers and secondary mathematics students*. Paper presented at the 211th Meeting of the American Astronomical Society, Austin, TX.

*Siegel, L., **Dickinson, G.**, Hooper, E. J., & Daniels, M. (January, 2008). *Modeling simple telescope optics in secondary mathematics classrooms*. Paper presented at the 211th Meeting of the American Astronomical Society, Austin, TX.

*Hooper, E. J., **Dickinson, G.**, Walker, M. H., Marder, M. P., & Kumar, P. (January, 2004). *Taking back the future with an innovative program for training science teachers*. Paper presented at the 203rd Meeting of the American Astronomical Society, Atlanta, GA. Retrieved from http://adsabs.harvard.edu/cgi-bin/nph-bib_query?bibcode=2003AAS...203.5902H&db_key=AST&high=3fbd351bd908560C.

*Bucci, T., Cherup, S., **Dickinson, G**., Petrosino, A., & Wetzel, K. (March, 2003). *Field experiences in NETS: Distinguished achievement award–winning teacher preparation programs*. Session presented at the International Conference Meeting of the Society for Information Technology and Teacher Education (SITE). Albuquerque, NM.

* **Dickinson (née) Carmack, G.,** & Petrosino, A. J. (March, 2002). *Technology standards in teacher preparation--ISTE NETS distinguished achievement award program*. Paper presented at the annual meeting of the American Association of Colleges for Teacher Education, New York, NY.

* **Dickinson (née) Carmack, G**. (April, 2001). *The effects of computer simulated experiments on high school biology students' problem solving and achievement*. Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA.

*Dodson, M. M., **Dickinson (née) Carmack, G**., & LaTurner, J. (April, 2001). *Who is responsible for teacher education?: Changing the role of colleges of natural sciences in preparing secondary math and science teachers*. Paper presented at the annual meeting of the American Educational Research Association Annual, Seattle, WA.

* **Dickinson (née) Carmack, G**. (October, 1999*). Using DNA fingerprinting to identify non-point E. coli sources in a creek: A Toyota Tapestry project*. Paper presented at the annual meeting of the National Association of Biology Teachers, Ft. Worth, TX.

* **Dickinson (née) Carmack, G**. (March, 1999). *Using DNA fingerprinting to identify non-point E. coli sources in a creek: A Toyota Tapestry project*. Paper presented at the annual meeting of the National Science Teachers Association, Boston, MA.

INVITED TALKS, LECTURES, PRESENTATIONS (*peer reviewed)

Dickinson, G. (July 2019). *Designing Effective Process Oriented Guided Inquiry Lessons (POGIL) for secondary classrooms*. Presented at the YSEALI Empowering Southeast Asian Educators Conference, Kuala Lumpur, Malaysia.

Dickinson, G. (July 2019). *Designing Effective Inquiry-Based Lessons*. Presented at the YSEALI Empowering Southeast Asian Educators Conference, Kuala Lumpur, Malaysia.

Dickinson, G. (22 June, 2018). P*roject-Based Instruction: Merging Service with Content*. Presented at the fifth annual Higher Education Leadership Program (HELP), Yangon, Myanmar.

Dickinson, G. (23 June, 2018). *Evaluating Service Learning Projects*. Presented at the fifth annual Higher Education Leadership Program (HELP), Yangon, Myanmar.

Dickinson, G. (March, 2018). *Inquiry Approaches to STEM Instruction*. Presented at the YSEALI STEM Education Workshop, Phnom Penh, Cambodia.

Dickinson, G. (June, 2017). *Process Oriented Guided Inquiry Lessons (POGIL) for university teaching*. Presented at the fourth annual Higher Education Leadership Program (HELP), Yangon, Myanmar.

Dickinson, G. (June, 2017). *Holistic Assessment of Inquiry Based Learning*. Presented at the fourth annual Higher Education Leadership Program (HELP), Yangon, Myanmar.

Dickinson, G., & Dolin, J. (March, 2016). *Inquiry-based Teaching and Learning: Why and How.* Paper presented at the third annual Higher Education Leadership Program (HELP) III: Improving Teaching and Learning in Myanmar Universities. Yangon, Myanmar.

Dolin, J., **Dickinson**, G., & Sheppard Wong, M. (March, 2016). *Formative and Summative Assessment of Student Learning at University.* Panel discussion at the third annual Higher Education Leadership Program (HELP) III: Improving Teaching and Learning in Myanmar Universities. Yangon, Myanmar.

Vong, C., & **Dickinson**, G. (March, 2016). Teaching-learning Centers for University Teachers: What do they do and how to set one up? Paper presented at the third annual Higher Education Leadership Program (HELP) III: Improving Teaching and Learning in Myanmar Universities. Yangon, Myanmar.

Dickinson, G. (January, 2016). *Teaching the inquiry process to university students in Cambodia*. Paper presented at Cambodian Education Development Forum (CEDF): Strengthening Higher Education in Cambodia. Phnom Penh, Cambodia.

Dickinson, G. (January, 2016). *Cambodian student perceptions of inquiry based learning*. Paper presented at Cambodian Education Development Forum (CEDF): Strengthening Higher Education in Cambodia. Phnom Penh, Cambodia.

Dickinson, G. (March, 2014). *Designing project-based instruction that meets the standards*. Presentation to the New Horizons in Texas STEM Education Conference, San Antonio, TX.

Dickinson, G. (October, 2013). Designing Project-Based Units: Keys for Success. Paper presented at the annual Kappa Delta Pi convocation, Dallas, TX.

Dickinson, G. (October, 2012). *Inquiry learning at the Royal University of Phnom Penh*. Presentation to the Texas State University—San Marcos Liberal Arts Advisory Board, San Marcos, TX.

Petrosino, A. J., **Dickinson, G**., Ekberg, D., & Walker, M. (May, 2008). *Project-based instruction in UTeach*. Invited presentation at the UTeach Institute Conference, Austin, TX.

Dickinson, G. (March, 2008). *Project-based instruction - What is it and why bother?* Presentation to the Texas State University – San Marcos Communication and Speech Disorders monthly department meeting, San Marcos, TX.

*DiBiano, C., Aurora, P., **Dickinson, G**., Walker, M., & Marder, M. P. (June, 2007). *A Preliminary examination of Noyce Scholars as teachers*. Paper presented at the annual Noyce PI Conference, Washington, DC.

***Dickinson, G**., Jackson, J. K., & Petrosino, A. J. (November, 2007). *UTeach natural sciences: A streamlined approach to recruit, train and mentor science and mathematics teachers*. Presentation at the 3rd International Forum on Teacher Education: Teacher Education Innovation and Teacher Professional Learning - Policies, Standards and Innovative Practices, Shanghai, China.

CONSULTANCIES

Southern Methodist University	PBL unit reviewer	2021
Texas Higher Education Coordinating Board	CCRS Expert Panel	2012
U.S. Department of Education	I3 Grant Review Panelist	2011
Louisiana Board of Regents	Grant Review Panelist	2001-2008, 2010-2011, 2014
San Marcos CISD, San Marcos, TX	Science Education PD presenter and	2008 - 2009

	Coach	
Southeast Regional T-STEM Center, University of Texas Medical Branch at Galveston	Project-Based Instruction PD presenter	2007-2008
UTeach Institute	Writer for UTeach Handbook section on Technology Integration in UTeach	Feb 2008
Austin Independent School District, Austin, TX	Science Education Trainer	2006 - 2007
University of Texas Telecampus TRACK program	Chair, Biology Content Validation Team	2004
Dallas Independent School District TIP program	University Liaison	1995-1997

WORKSHOPS

Dickinson, G. (9 August 2025). *Unlock the Secrets of Impactful Research and Publication*. Workshop presented for doctoral students at the Royal University of Phnom Penh, Phnom Penh, Cambodia.

Dickinson, G. (2 July 2025). *Uncovering Student Ideas Through Teaching by Inquiry*. Workshop presented at Pikinini Playtime School, Port Vila, Vanuatu.

Dickinson, G. (2 July 2025). *Teaching Inquiry Science with Limited Supplies*. Workshop presented at Central High School, Port Vila, Vanuatu.

Dickinson, G. (24 June 2025). *Teaching Inquiry Science with Limited Supplies*. Workshop presented at Epauto Adventist High School, Port Vila, Vanuatu.

Dickinson, G. (16 June 2025). *Teaching Inquiry Science with Limited Supplies*. Workshop presented at Matevulo College, Luganville, Vanuatu.

Dickinson, G. (12 June 2025). *Teaching Inquiry Science with Limited Supplies*. Workshop presented at Santo East High School, Luganville, Vanuatu.

Dickinson, G. (11 June 2025). *Teaching Inquiry Science with Limited Supplies*. Workshop presented at Aore Adventist Academy, Aore, Vanuatu.

Dickinson, G. (3 August, 2018). *Laboratory organization for Effective Instruction*. Workshop presented for Footprints International School, Phnom Penh, Cambodia.

Dickinson, G., (December 2017). *Using the Science Writing Heuristic to Promote Scientific Thinking*. Workshop presented for Footprints International School, Phnom Penh, Cambodia.

Dickinson, G., (October, 2016). *Fulbright: a World of Opportunities*. Workshop presented for the Texas State University Academic Development and Assessment Office., San Marcos, TX.

Dickinson, G., (September 24, 2014). *How to design effective Project-Based Instruction units*. Workshop presented for the Texas State University Academic Development and Assessment Office., San Marcos, TX.

Dickinson, G., (June, 2014). *POGIL and probeware for chemistry lessons*. Workshop presented to Central Texas teachers as part of the Partnership for Research and Education in Materials (PREM) grant., San Marcos, TX.

Dickinson, G., Ford, D., Lemke, M., & Galloway, H. G., (2013). *Inquiry methods for teaching*. World Bank funded five-week workshop presented at the Royal University of Phnom Penh, Phnom Penh, Cambodia.

Dickinson, G. (August, 2008). *Misconceptions in science*. Workshop presented to San Marcos Consolidated Independent School District middle school science teachers, San Marcos, TX.

Dickinson, G. (July, 2008). *Effective science instruction*. Workshop presented to San Marcos Consolidated Independent School District middle school science teachers, San Marcos, TX.

Dickinson, G. (February, 2008). *Assessment in project based instruction*. Workshop presented to T-STEM teachers at UTMB, Galveston, TX.

Dickinson, G. (January 14, 2008). *Project based instruction - Making it work*. Workshop presented to Manor New Tech High School Teachers, Manor, TX.

Dickinson, G. (August, 2007). *Project based instruction in mathematics and science*. Workshop presented to Texas Science, Technology, Engineering, and Mathematics (T-STEM) grant recipients, Gaveston, TX.

Dickinson, G. (October 2006, February 2007). *Using inquiry in elementary science classroom*. Workshop presented at the Austin Independent School District, Austin, TX.

Dickinson, G. (May, 2003; Repeated June 2004). *Bringing Project Based Instruction Into The College Classroom*. NSF Chautauqua Short Course presented at University of Texas, Austin, TX.

Dickinson (née) Carmack, G. (November, 2001). *Bioinformatics tools for high school classrooms*. Science Teachers Association of Texas Annual Conference for the Advancement of Science Teaching, Austin, TX.

Dickinson (née) Carmack, G. (July, 1998). *Transformation of E. coli with pGlo*. Workshop presented at the Austin Independent School District AP Institute, Austin, TX.

Dickinson (née) Carmack, G. & Journeay, D. (January, 1998). *Internet projects in science*. Workshop presented at the Austin Independent School District Share the Excitement District-wide inservice, Austin, TX.

Dickinson (née) Carmack, G. & Journeay, D. (January, 1998). *Catch the biotechnology wave*. Workshop presented at the Austin Independent School District Share the Excitement District-wide inservice, Austin, TX.

Dickinson (née) Carmack, G. (July 1996). *TENET for beginners*. Workshop presented at the AP Institute sponsored by the DANA Center at the University of Texas, Austin, TX.

Dickinson (née) Carmack, G. (June 1996). *Netscape for beginners*. Workshop presented at the Technology Immersion Project, Austin, TX.

Carmack, G. D., Silva-Quinn, N., & Budries, K. (November, 1995). *Integrating curriculum through technology in practice*. Workshop presented at the 1995 Texas State Teachers Association Critical Issues Conference, Austin, TX.

Dickinson (née) Carmack, G. (February 21, 1994). *Internet for beginners*. Teacher inservice presented for LBJ High School, Austin, TX.

Dickinson (née) Carmack, G. (November, 1993). *Science Academy field trip: Satellite imaging in the classroom*. Field trip presentation for the Texas Science Teachers Association Conference for the Advancement of Science Teaching, Austin, TX.

Dickinson (née) Carmack, G. (1993). *The Internet and the classroom*. Teacher inservice presented for the Austin Independent School District, Austin, TX.

Dickinson (née) Carmack, G. (1992). *Teaching science to gifted and talented students*. Teacher inservice presented for the Austin Independent School District, Austin, TX.

Dickinson (née) Carmack, G. (1991). *Evaluating science software for the elementary classroom*. Teacher inservice presented at the Science Academy of Austin. Austin, TX

OTHER WORKS NOT IN PRINT

GRANTS AND CONTRACTS

FUNDED EXTERNAL GRANTS AND CONTRACTS

Dickinson, G. (2025). Verena and Kenneth J. Wilson Research Program. $500.

Ortiz, A., Huling, L., Van Overschelde, J., Beck, J., **Dickinson, G**., Sririman, V., Close, E., & Fabac, K. (2014). *NASA STEM Education Constellation*. NASA. $14,998,963 over 5 years. (grant writer and senior personnel)

Leang, U., Veasna, C., Ford, D., Rumreasey, C., Dany, K., Monrith, L., (ST), Galloway, H., **Dickinson, G**., Lemke, M., (2012). *Transforming teaching methodologies at Royal University of Phnom Penh (RUPP) and Svay Rieng University (SRU) from lecture to inquiry*. Kingdom of Cambodia Ministry of Education, Youth and Sport World Bank proposal, $133,343 over 2 years (grant writer and collaborator).

Dickinson, G., & Summers, E. J. (2010). *Addressing the need for teacher competence and student achievement studies in project-based instruction to support College and Career Readiness*

Standards: A comparison of undergraduate and postbaccalaureate graduate training. CCRI Science Faculty Collaborative, $10,000 over 1 year.

Rudzinski, W., Gulacar, O., & **Dickinson, G**. (2010). *Integrating technology (tablet PCs with Ubiquitous Presenter and Vernier probes) into POGIL (Process Oriented Guided Inquiry Learning) activities embedded in a laboratory development course designed for pre-service chemistry teachers to support College and Career Readiness Standards*. CCRI Science Faculty Collaborative, $10,000 over 1 year.

Summers, E. J., & **Dickinson, G**. (2010). *Addressing the need for teacher competence and student achievement studies in project-based instruction to support College and Career Readiness Standards*. CCRI Social Studies Faculty Collaborative, $10,000 over 1 year.

Summers, E. J., & **Dickinson, G**. (2010). *Addressing the need for teacher competence and student achievement studies in project-based instruction to support College and Career Readiness Standards.* Austin Community College District, $6063 over 1 year.

FUNDED INTERNAL GRANTS AND CONTRACTS

Dickinson, G., & Johannessen, B. G. (2012). *Scholar Mentor Program*.

Dickinson, G., & Summers, E. J. (2011). *Scholar Mentor Program*.

Summers, E. J., & Dickinson, G. (2009). *TIC TAC TOE (teaching and integrating children's cultures triangulated with aligned curriculum toward oneness in education).* Library Research Grant, $663.

FELLOWSHIPS, AWARDS, AND HONORS

AERA Division K Pre-Conference New Faculty Seminar	2011
Outstanding Graduate Student, Department of Instructional Technology, Utah State University	1989
Constance Dorothea Weinman Scholarship	1988

SERVICE

UNIVERSITY

General Education Council	9/18-12/18
University Safety Committee	10/14-5/17
Retirement and Benefits Committee	9/14 - 5/15
T-STEM Task Force	2007 - 2010
Teacher Residency Program Advisory Council	2009-2010
College Readiness Symposium representative	2009
Chemistry Department Chemical Education Faculty Search Committee	2009-2010
STEM Professional Development Day presenter	2009

COLLEGE

College of Education Curriculum Committee	2013-2014
Faculty Advisory Committee Vice Chair/Secretary	2009
Faculty Advisory Committee representative	2009-2011

DEPARTMENTAL

C&I Curriculum Committee	2012 - 2014
PBS TeacherLine committee, member	2007 - 2011
Graduate secondary education committee, member	2008 - present
C&I Teacher Education Admission Policy Committee	2009-2010
Development and proposal of a revised Secondary Science and Mathematics Education Masters Program	2007-2008
Departmental Representative for the College Readiness Symposium	2008

COMMUNITY

San Marcos Public Housing, Science Nights.	2011 - present
Miller Middle School ESL Science Nights.	2011 - 2012
Kealing Middle School water quality field trip chaperone	2011
Environmental Science Merit Badge Counselor, Boy Scout Troop 399 Austin, TX	2007 - 2009
Miller Junior High School TAKS science camp.	April, 2009
Science Day - Science lessons taught to seventh grade at St. Francis School, Austin, TX.	February, 2008
Sixth grade Biotechnology unit taught at St. Francis School over 3 weeks.	January, 2007
Carmack (Dickinson), G. D. & Fletcher, L. *Using DNA fingerprinting to track down E. coli*. Workshop presented at the Expanding Your Horizons Conference, Austin, TX. (Expanding Your Horizons is a 1 day	February, 1999

conference intended to attract junior high girls to math, science, and technology).

Carmack (Dickinson), G. D. *ELISA, the feminine AIDS test*. Workshop presented at the Expanding Your Horizons Conference, Austin, TX.	March 2000; February, 1998
Carmack (Dickinson), G. D. *WWW scavenger hunt*. Workshop presented at the Expanding Your Horizons Conference, Austin, TX.	February, 1998; February, 1996
Ran a one-week long biotechnology camp for home-school children grades 6-12. Experiments included bacterial transformation with pGLO, extraction and purification of green fluorescent protein, restriction digest of lambda DNA with HIND III and ECO RI, ELISA test, paper chromatography, and isolation of DNA from bananas.	June, 1998
Carmack (Dickinson), G. D. *Gopher scavenger hunt*. Workshop presented at the Expanding Your Horizons Conference, Austin, TX.	February, 1995

PROFESSIONAL

Fulbright English Teaching Assistant Review Panel	2023
Fulbright Proposal Review Panel	2023
Journal of Teacher Education, reviewer	2023
National Science Teaching Association Safety Committee	2022-2023
Fulbright Proposal Review Panel – Education	2021
Fulbright Proposal Review Panel – Education	2020
TEKS review committee for Aquatic Science and Environmental Systems	2020-2021
Fulbright Proposal Review Panel – Education	2019
Fulbright proposal review panel – Southeast Asia and the Pacific	2018
Program development, Royal University of Phnom Penh Department of Education MEd program. Phnom Penh, Cambodia	11/17 - present
Program development, Royal University of Phnom Penh Department of Education BA Fast track program. Phnom Penh, Cambodia	9/2017 – 7/2018
Professional development team member, E2STEM High School. Phnom Penh, Cambodia.	11/2017 – 4/2018
Royal University of Phnom Penh Department of Education Advisory Board Member`	2016-present
Advisor on Teacher Trainer Reform efforts to H.E. Dr. Hang Chuon Naron Cambodian Minister of Youth Education and Sport	April 2016
National Association for Research in Science Teaching Conference Strands 1, 6, &	2014

7 proposal reviewer.	
Secretary/Treasurer of the AERA Science Teaching and Learning SIG.	2010-2013
National Science Teachers Association Committee on Research in Science Teaching, member.	2012-2015
Royal University of Phnom Penh science curriculum development committee.	2010-current
Interdisciplinary Journal of Problem Based Learning reviewer	2012-current
American Educational Research Association Science Teaching and Learning SIG proposal reviewer	2012
National Association for Research in Science Teaching Conference Strand 6 proposal reviewer.	2012
National Association for Research in Science Teaching Conference Session Presider	2012
American Educational Research Association Conference Session Chair	2012
National Association for Research in Science Teaching Conference Strands 1, 4, & 7 proposal reviewer.	2011
Associate Editor, *The International Journal of Science in Society*, *2*(1).	2011
Associate Editor, *The International Journal of Science in Society*, *2*(2).	2011
Invited to serve on the Governor's Council for Science and Biotechnology Committee on Talent and skills.	2002
Co-chair of the short course committee for the Science Teachers Association of Texas 2001 Conference for the Advancement of Science Teaching.	2001
Field-tested experiments for the National Association of Biology Teachers' Microbial Literacy Campaign.	1998
Coordinated the Austin ISD weeklong pre-AP biology Institute. This involved locating speakers, obtaining supplies, prepping labs and helping with presentations.	1998
Founding President, Utah State University chapter of the Association for Educational Communications and Technology.	1989

SERVICES HONORS AND AWARDS

Presidential Excellence Award for Service, College of Education Finalist 2012

ORGANIZATIONS

1. **Honorary**

Phi Alpha Theta National History Honor Society (inducted 1985)

2. **Professional Memberships**

National Science Teaching Association	1990-present
Science Teachers Association of Texas	1990-present
American Educational Research Association	1999-2003; 2007 - 2015
International Society for Technology in Education	2007 – 2010
National Association for Research in Science Teaching	2000-2002; 2010-2015
Association of Science Teacher Educators	2010 - 2015
Association for the Advancement of Computing in Education	1999-2003; 2007 – 2009, 2012
Association for Education Communications and Technology, Founding President Utah State University Student Chapter.	1988 - 1989