

STEVEN S.W. FLETCHER

St. Edward's University
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Austin, TX 78704

Teaching, Learning, and Culture
School of Human Development and Education
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EDUCATION

Ph.D.	UNIVERSITY OF TEXAS AT AUSTIN College of Education – Department of Curriculum and Instruction Specialization in Science Education <i>Dissertation: A longitudinal study of the beliefs and practices of pre-service secondary science teachers through a university teacher preparation program</i>	Dec 2006
M.Ed.	UNIVERSITY OF ARIZONA College of Education – Teaching and Teacher Education Specialization in Science Education and 7-12 teaching certificate	May 2000
B.S.	UNIVERSITY OF CONNECTICUT College of Agriculture Renewable Natural Resources with specialization in Wetlands Ecology	July 1988

CERTIFICATES

Texas Teacher Certification Grade 8-12 Biology Teacher Certification	2014-present
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RESEARCH EXPERIENCE

PRINCIPAL INVESTIGATOR	August 2014 – August 2018
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St. Edward's Robert Noyce Teacher Scholarship program PHASE II Monitoring and Evaluation – School of Education, St. Edward's University, Austin TX

The Phase II Robert Noyce Scholarship program at St. Edward's (\$297,360) provides funding and support for Phase I scholars to complete induction phase of program. Roles of PI include: Supervise all support staff. Manage budget. Direct and lead all aspects of grant implementation. Design and implementation of summer science camp and Texas STEM teacher circle throughout grant life cycle. Lead all research efforts to monitor and evaluate scholar development.

PRINCIPAL INVESTIGATOR	December 2015- December 2017
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St. Edward's University Powell Foundation Grant: Texas Teacher Circles – School of Education, St. Edward's University, Austin TX

The Texas Teacher Circles project (\$47,000) is an induction program designed to support beginning STEM, Literacy, and Bilingual Teachers as they move from their pre-service to early career years in the classroom. Monthly teacher circle meetings focus on areas of content/pedagogy need and include community and other stakeholders. Role of PI includes: Supervise support staff person. Manage budget. Recruit and collaborate with multiple faculty as co-developers. Oversee three meetings per month related to project goals. Report to funder and University Advancement on success of outcomes. Disseminate results.

PRINCIPAL INVESTIGATOR	August 2009 – August 2014
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*St. Edward's Robert Noyce Scholarship program PHASE I – School of Education
St. Edward's University, Austin TX*

The Robert Noyce Scholarship program at St. Edward's (\$885,000) provided funding and support for 18 students to pursue education degrees in STEM-related fields from 2008-2013. Roles of PI include: Supervise all support staff. Manage budget. Direct and lead all aspects of grant implementation. Design and implementation of summer science camp and STEM partnership workshops throughout grant life cycle, plan and teach secondary STEM methods coursework, provide clinical early field experiences and institute partnerships with local school districts for student teaching opportunities, Chair advisory board, plan and implement recruiting strategies, advise students, and develop and provide induction support once in the classroom.

PRINCIPAL INVESTIGATOR **September 2003 – December 2006**
*Teacher Beliefs Longitudinal Study- Center for Science and Mathematics Education
University of Texas, Austin TX*

The longitudinal study was designed to explore the beliefs, knowledge, and practices of pre-service secondary science teachers as they progress through a university teacher preparation program and into the classroom. Roles of the PI include three main areas: (1) designing, conducting, and analyzing semi-structured interviews on the participants beliefs, views on the nature of science and progress through the program, (2) management and leadership to project team members, (3) Dissemination of results through professional meetings and journal articles.

GRADUATE RESEARCH ASSISTANT **May 2004 – June 2005**
*Science Teacher Induction Study – Center for Science and Mathematics Education
University of Texas, Austin TX*

Research assistant for a project that examined the impact of four different induction programs on the professional development of beginning secondary science teachers in Texas, Arizona, Minnesota, and California. The induction study compares general, science specific, alternative certification, and e-mentoring induction programs and how they impact the beliefs, knowledge and practices of beginning teachers. Three main areas of contributions to the pilot year of the project as a research associate were (1) teacher recruitment into study and associated paperwork from districts and schools for inclusion in the study, (2) collection and management of data collection through semi-structured interviews, records of practice, open ended interviews and other artifacts, and, (3) analysis of data in the forms of beliefs, PK, PCK, and NOS instrument rubrics, content assessments, and science lesson analysis.
Funded by the National Science Foundation

PRINCIPAL INVESTIGATOR **January 2005 – May 2005**
*Teach / Reteach Study- Center for Science and Mathematics Education
University of Texas, Austin TX*

The teach / reteach study was designed to explore the impact of an extended early field experience on the level of reflection and knowledge of science as inquiry of pre-service secondary science teachers in a teacher preparation course. as they progress through a university teacher preparation program and into the classroom. Roles of the PI include three main areas: (1) designing, conducting, and analyzing semi-structured interviews on the participants beliefs about teaching, views on science as inquiry and analysis of videotaped observations (2) management of IRB protocol and related university paperwork, (3) dissemination of results through professional meetings and journal articles.

UNIVERSITY TEACHING EXPERIENCE POSITIONS HELD

ASSOCIATE PROFESSOR - SECONDARY EDUCATION **August 2012 - present**
St. Edward's University *Tenured, August 2018*
Austin, TX

Oversee secondary field-based program, including recruitment and retention of partner schools, marketing and recruitment into the secondary education program, development and implementation of professional development and informational sessions for local school faculty, active pursual of both internal and external funding opportunities and development of an internal research agenda related to teacher development. Teach wide array of teacher preparation courses including Secondary Teaching Methods and Management,

Curriculum and Instruction for Secondary Teachers, Secondary Content Area Literacy, Schools, Education, and Society, Educational Technology Integration, Student Teaching Seminar, Student Teacher Supervision, Elementary Science Methods, General Science Courses, Supervision of Honors Theses and Master's Projects. Also perform duties listed under assistant professor section below.

ASSISTANT PROFESSOR-SECONDARY EDUCATION

August 2006 - 2012

*St. Edward's University
Austin, TX*

Plan and teach undergraduate secondary education courses. Develop field-based coursework. Supervise student teachers. Serve as advisor for 30 students. Liaison to secondary disciplinary majors and content area fields. Develop research and funding plans. Market and promote program to recruit students. Serve on school and university-wide committees.

INSTRUCTOR

January 2006 – May 2006

*University of Texas UTeach Program
Austin, TX*

Designed and Co-taught courses for student teachers focusing on beginning teacher concerns and effective planning, instruction and attention to reform-based science and mathematics education.

UNIVERSITY FACILITATOR

January 2005 – May 2006

*University of Texas UTeach Program
Austin, TX*

Supervised student teachers on a weekly basis through classroom observations and electronic communication. Evaluated progress of teachers through formative rubrics with a focus on classroom environment, delivery and instruction, professional responsibilities, equity, teaching preparation, and subject matter knowledge. Served as liaison between university and school staff

TEACHING ASSISTANT

September 2003 – June 2005

*University of Texas
Austin TX*

Classroom Interactions (EDC 371)

Assisted with course planning and classroom instruction of science teacher preparation course. Designed and implemented lessons on inquiry-based learning and research-based teaching rationales; evaluated student projects and course papers; provided instruction of computer software programs related to video analysis of classroom lessons.

Informal Science Education (EDC F371)

Assisted with course planning and field-based instruction of informal science education course. Supported students in field; evaluated student projects and papers; provided instruction of computer software programs related to student presentations.

**UNIVERSITY TEACHING EXPERIENCE
COURSES TAUGHT**

My University teaching experience encompasses a range of courses but rests primarily in secondary teacher preparation. Briefly, courses I have taught include:

- EDUC 1330 - Schooling, Education and Society
- EDUC 2332 – Educational Technology Integration
- EDUC 2339 - Teaching Science in the Elementary School
- EDUC 3333 – Secondary Instructional Methods and Classroom Management
- EDUC 4334 - Curriculum and Evaluation in the Secondary School
- EDUC 4359 - Student Teaching Seminar– Secondary
- EDUC 4361 - Student Teaching Internship
- HONS 4399 - Honors Senior Thesis
- FSTY 1121 - Wicked Problems LLC seminar
- FSTY 1321 - Wicked Problems and The Problem with Innovation
- READ 4343 – Content Area Literacy – Secondary
- SCIE 2324 – Science in Perspective

RELATED PROFESSIONAL EXPERIENCE

DEPARTMENT CHAIR – TEACHING, LEARNING, and CULTURE **August 2017 – present**

*St. Edward's University
Austin, TX*

Prepare teaching schedule for department for all faculty. Complete annual faculty evaluation in conjunction with the school committee and/or the Dean. Hire and oversee contingent faculty. Recruit and mentor faculty. Develop and implement department mission and goals, including curriculum development and SLOs. Complete periodic observation of post-probationary faculty. Recruit students and market program to community. Develop alumni relations and represent department across campus.

DIRECTOR – TEXAS TEACHER CIRCLE INDUCTION PROGRAM **August 2010 - present**

*St. Edward's University
Austin, TX*

Design and direct collaborative induction programming for beginning teachers and others in the community including in-service teachers, content area experts, university faculty from surrounding institutions and business and other community members. Conduct monthly professional development workshops for STEM teachers and recruit and support other SOE faculty in providing professional development for other disciplines like ELA and bilingual populations.

DIRECTOR – WICKED PROBLEMS LLC **January 2016 – May 2018**

*St. Edward's University
Austin, TX*

Select the theme and coordinate five linked courses related to theme. Select linked-course faculty members and coordinate the teaching to integrate the LLC theme. Seek out and establish both possible equivalencies for the General Education curriculum and cross listings within majors or both. Coordinate with Freshman Studies Director to ensure common first year experiences and learning outcomes are included in the LLC curriculum. Design and teach a one-hour course on the theme for approximately 95 students, including guest lectures co-taught by the faculty of the linked courses. Collaborate with staff to plan and participate in monthly fall semester co-curricular events around the theme. Coordinate with staff from Residence Life, Student Success Center, Marketing, and Admissions to plan and promote the LLC. Communicate with staff from Academic Counseling and Exploration (ACE), CAMP, and Office of International Education (OIE) and others who advise first year students the LLC course and scheduling information Co-chair, with Assistant Director of Residence Life, bi-weekly meetings in the fall 2016 and spring 2017 semesters with faculty and staff associated with the LLC. Design and implement assessment of LLC.

ASSOCIATE RESEARCHER **June 2004 - June 2005**

*University of Texas
Austin, TX*

Vision Award Technology Project

Examined, edited and compiled videotaped excerpts of exemplary pre-service teacher lessons for distribution to instructors of science and mathematics methods courses; compiled written descriptions of examples; designed webpage for dissemination of videotaped examples and created CD copies for others to use.

INSTRUCTOR **August 2002 – December 2002**

*University of Arizona
Tucson AZ*

Secondary Science Methods (TTE338H)

Designed and taught secondary science methods course with focus on inquiry-based instruction, development of student pedagogical content knowledge, reflective ability, diversity and equity issues, cooperative learning strategies and other skills aligned with current reforms in science education. Students completed extended field experience and wrote a research-based rationale for becoming a science teacher. Provided support in the field, assessed student work, and prepared students for student teaching.

GRANTS AND EVALUATION

Funded:	Amount	Date
Principal Investigator – Powell Foundation - Maker Weekend Workshops	\$30,000	Current
Principal Investigator – Powell Foundation - Texas Teacher Circle Phase II	\$47,000	2015-2017

Principal Investigator – NSF Robert Noyce Teacher Scholarship Phase II	\$297,000	2014-2017
Principal Investigator – NSF Robert Noyce Teacher Scholarship Phase I	\$885,000	2009-2013
Principal Investigator - Powell Foundation Grant – STEM Teacher Circle	\$15,000	2013-2014
Principal Investigator – 3M Project Sustain Grant – Wild Basin Curriculum project	\$20,000	2012-2013
Principal Investigator – Austin Community Foundation – Wild Basin project	\$2,500	
Pending:		
Co-Principal Investigator – OPEN!DOORS NSF S-STEM grant	\$999,984	
Not-Funded:		
Co-Principal Investigator – NSF SBBR program – ImproveClass	\$ 76,439	2014-2016
Co-Principal Investigator – NSF AISL program – Wild Basin STEM Learning	\$1,394,000	2014-2019

EXTERNAL GRANT EVALUATOR

Graduate Identity Formation through Teaching (GIFT) program. Boise State University: NSF Innovations in Graduate Education (IGE) program

SPARK STEM: Optimizing STEM Learning Through Mathematics and Science Modeling. State Council of Higher Education for Virginia: Improving Teacher Quality State Grant.

K-12 TEACHING EXPERIENCE

9th GRADE SCIENCE **August 2001 – August 2003**
Sunnyside High School,
Tucson, AZ

Teacher, 9th Grade environmental science and biology; designed and taught environmental science and biology courses with an inquiry framework; required students to complete service learning project related to local environmental issues; participated in district and school leadership activities; designed and led professional development activities for colleagues in region; supervised student teacher; managed academic decathlon club.

8th GRADE SCIENCE **August 2000- July 2001**

Westland Middle School,
Bethesda, MD

Teacher, 8th Grade Science; designed curriculum and taught a variety of science topics in an inquiry-based framework; designed and led field experiences for outdoor club; participated in professional development activities

EDUCATION MANAGER – ISLAND PROGRAMS **March 1989 – March 1992**
Chesapeake Bay Foundation,
Annapolis, MD

Education Manager, Maryland Streams Restoration Program; Education Manager for Island Residential Programs, Fox and Port Isobel Island, VA; Designed and taught multi-day residential science education field experiences for 6-12 grade and adults; content included wetlands ecology, conservation biology, cultural anthropology; managed physical operations and staff at education center; participated in professional development activities.

ACADEMIC HONORS AND AWARDS

Nominee	Minnie Stevens Piper Professor Award	2017-2018
Recipient,	St. Edward’s University, Distinguished Teaching Award	2017
Recipient,	St. Edward’s University, SPICE Reassignment Award	2016-2018
Recipient,	Exemplary Field-Based Program, CREATE	2013-2014
Recipient,	St. Edward’s University TLTR grant	2014-2015
Recipient,	St. Edward’s University DeLayne Hudspeth Award for Innovative Instruction	2014

Recipient.	St. Edward's University, Presidential Excellence Grant	2007, 2009-2013, 2016, 2018
Recipient,	St. Edward's University, Program Development Award	Summer 2008
Recipient,	St. Edward's University, Faculty Institute on Global Studies Fellowship	Summer 2007
Recipient,	University of Texas at Austin College of Education Joseph L. Henderson & Kathryn D. Henderson Scholarship	Summer 2005
Recipient	UT Austin Preemptive Fellowship	2003-2005

PUBLICATIONS – BOOK CHAPTERS

- Peterson, K., & Fletcher, S.S., (In press). Learning to Teach in Practical Settings. In the *Handbook of Research on Critical Thinking Strategies In Pre-Service Learning Environments*. IGI-Global.
- Luft, J., Potter, T., & Fletcher, S. (2005). Guided by the standards: Inquiry and assessment in two rural and urban schools. In R. Yager (Ed.), *Exemplary science in grades 9-12: Standards-based success stories*. (pp 83-91). Arlington, VA: NSTA press.
- Fletcher, S., & Luft, J. (2004). Did we cause this? In T. R. Koballa Jr. & D. J. Tippens (Eds.), *Cases in middle and secondary science education: The promise and dilemmas* (pp. 117-119). Upper Saddle River, NJ: Pearson.

PUBLICATIONS – JOURNAL ARTICLES

- Rodriguez, S, Fletcher, S.S., & Harron, J. (Accepted, pending revisions). Introducing 'Making' to Elementary and Secondary Preservice Science Teachers Across Two University Settings. *Innovations In Science Teacher Education*,
- Rodriguez, S., Harron, J., & Fletcher, S.S. & Spock, H. (2018). The Elements of Making Matrix: A tool to support making in the science classroom. *The Science Teacher*. 85, 2. p.24-30.
- Luft, J.A., Fletcher, S.S., & Nixon, R. (In review). Subject Matter Knowledge that is Needed to Teach Science: Conceptualizing and Exploring this Construct. *Journal of Science Teacher Education*.
- Fletcher, S. S. and Luft, J. A. (2011). Early career secondary science teachers: A longitudinal study of beliefs in relation to field experiences. *Science Education*. doi: 10.1002/sce.20450
- Luft, J., Lee, E., Fletcher, S., & Roehrig, G. (2007). Growing or wilting? Beginning Science biology teachers in a science-focused induction program. *American Biology Teacher*. 69, 6, 341-346.
- Luft, J., Fletcher, S., & Fortney, B. (2005). Early recruitment of science teachers: Promising or problematic strategy. *Science Educator*. 14, 41-48.

PUBLICATIONS – PROCEEDINGS

- Fletcher, S & Luft, J. (2009). Early Career Secondary Science Teachers: A Longitudinal Study of Beliefs in Relation to Field Experiences. *Proceedings of the 82nd National Association of Research in Science Teaching Annual Conference*. Orange County, CA. National Association of Research in Science Teaching.
- Fletcher, S. (2009). Negotiating Social Capital at the Intersection of University/School Partnerships. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference* (pp. 36-37). Portland, Or: National Science Foundation [Available online at www.sciedxroads.org/proceedings2009.html]
- Fletcher, S. (2008). Teacher Program Development as Aikido: One Warrior Searches for Harmony. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference* (pp. 34-35). Alta, UT: National Science Foundation [Available online at www.sciedxroads.org/proceedings2008.html]
- Fletcher, S. (2007). Killing the teacher within? Challenging pre-service teacher beliefs about teaching and learning and the theory/practice conundrum. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference* (pp. 38-39). Amherst, MA: National Science Foundation [Available online at www.sciedxroads.org/proceedings2007.html].
- Fletcher, S (2006). Building a science education program at a small university. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference* (pp. 20-21). Ogden, UT: Weber State University [Available online at www.sciedxroads.org/proceedings2006.html].

PRESENTATIONS

- Disch, M., Fletcher, S., Hammonds, H., Johnson, E., Lucas, L. (08/18). Make Way for Making: An Exploration of Makerspaces in Higher Education. The St. Edward's University Teaching Symposium 2018: A Conference on College Teaching. Austin, TX.
- Bilinski, T., Brantl, M., Fletcher, S., Glenn, D., & Wilburn, K. (08/18). The Future of Pass/No Pass Grading at SEU. The St. Edward's University Teaching Symposium 2018: A Conference on College Teaching. Austin, TX.
- Fletcher, S., Loughmiller, I., Mirando, A., Dube, K., Nyguen S., and Benfield, P. (05/18). Special Needs Students in Makerspaces: Challenges and Opportunities. Austin Maker Education Summit, Austin TX.
- Peterson, K. & Fletcher, S.S. (04/18). Developing Critical Teacher Identities: A Design Based Inquiry in a Teacher Education Program. 2018 American Education Research Association Annual Conference. New York, NY.
- Fletcher, S.S. (7/17). St. Edward's University Noyce Scholarship Program – Year Three. Poster presentation at the 2017 Annual NSF Noyce Summit, Washington DC.
- Fletcher, S.S., Newman, C., Mueller, F., & Valdez, E. (7/17). Stories from the Field – In-service STEM teachers discuss pivotal moments as noyce scholars. 2017 NSF Noyce Summit, Washington DC.
- Fletcher, S., Sloan, K., Kopec, R., Wilburn, K., & Rodenborn, S. (08/16). Teaching your Passion in a Living Learning Community. Center for Teaching Excellence Annual Symposium. St. Edward's University, Austin TX.
- Fletcher, S., Ontai, A. (08/16). Move over Bill Nye, Here comes Amy Ontai: Using video to motivate kids. Austin Independent School District Annual Summer Science Institute, Austin TX.
- Fletcher, S. (08/16). Science Process Skills and Toy Dissection. Austin Independent School District Annual Summer Science Institute, Austin TX.
- Fletcher, S. (08/16). Shared Leadership using Wenger and Wenger Frameworks. Keynote address – 2016 SEU Noyce Scholars Phase II Summer Retreat, Austin, TX
- Rodriguez, S. & Fletcher, S. (01/16). Observation as Professional Experimentation. An analysis of the noticing of secondary science cooperating teachers as they observe preservice teachers. Association for Science Teacher Education Annual Meeting. San Antonio, TX.
- Peterson, L., Fletcher, S., Green Musselman, J., & Kennedy, B. (08/15). Signature Programs Information Session. Center for Teaching Excellence Annual Symposium. St. Edward's University, Austin TX.
- Fletcher, S. (8/15). Video Analysis as Professional Development: Tips and Techniques. Austin Independent School District Annual Summer Science Institute, Austin TX.
- Fletcher, S. (08/15). Preparing for your first year. Keynote address – SEU Noyce Scholars Phase I Summer Retreat, Fredricksburg, TX.
- Fletcher S. and Quinn, W. (05/15). Meaningful Imaging in the Biology Classroom. American Society for Microbiology Educators Annual meeting. Austin TX.
- Fletcher, S. (10/14). Project SUSTAIN – developing curriculum for informal science education sites. University of Georgia Science Education Invited Speaker Series. Athens GA.
- Fletcher, S. (10/14). Video analysis as a tool for teacher development. University of Georgia Science Education Invited Speaker Series. Athens GA
- Fletcher, S. (10/14). Community and collaboration: STEM teacher induction using the teacher circle model. University of Georgia Science Education Invited Speaker Series. Athens GA.
- Fletcher, S. (09/14). Examining Mendel's Compost Pile: Mutated Cross-Pollination of the Vex/Ven Cycle in A Preservice Teacher Preparation Program. Science Education at the Crossroads Annual Conference, Portland OR.
- Fletcher, S. (08/14). Making your Bed and other advice. SEU Medallion Ceremony Convocation address, St. Edward's University, Austin TX.
- Fletcher, S. (03/14). Texas STEM Teacher Circle. Skillpoint Alliance Quarterly Meeting. Austin TX
- Fletcher, S. And Tillotson, J. (01/14). Forging collaborative relationships between large and small universities – A conversation around science teacher development. Association for Science Teacher Education Annual Meeting. San Antonio, TX.
- Fletcher S., and Simpson, G. (09/13). St. Edward's University Secondary Teacher Preparation Program. Invited Poster for Exemplary Field-Based Program Award at Annual CREATE meeting. Austin TX.
- Fletcher, S., Simpson, G, Blair, D., & Newman, C. (09/13). Using video as a tool for teacher development and program evaluation. CREATE Annual Meeting, Austin TX.
- Fletcher, S. & Villanueva, S. (08/13). An overview of IRB rules and policies. Center for Teaching Excellence Annual Symposium. St. Edward's University, Austin TX
- Fletcher, S. (08/13). Responding to Disruptive Innovation. Plenary Panel presentation, Center for Teaching Excellence Annual Symposium. St. Edward's University, Austin TX
- Fletcher, S. (11/12). Building a community of nerds: Four Years of the SEU Noyce program. 2012-13 Faculty Talks on Scholarly, Creative, and Professional Work, St. Edward's University. Austin, TX.
- Fletcher, S. (09/12). Hunched on the volcano – Professional identity and ungraded student work. Science

- Education at the Crossroads Annual Conference, Providence, RI.
- Fletcher, S., & Sanhueza-Lyon, J., (05/12). Professional Identity as an Educator: The role of social media. NSF Noyce Annual Conference, Washington DC.
- Fletcher, S., et al (05/12). All hands-on deck: Pre-service stem teachers on a co-generative journey, NSF Noyce Annual conference. Washington, D.C.
- Fletcher, S. (10/11). Honey, call the plumber. Science Education at the Crossroads Annual Conference, Providence, RI.
- Fletcher, S., Simpson, G., Naples, C., & Quinn, B. (07/11). Unplugging the STEM teacher recruitment pipeline from Community College to University. NSF Noyce Annual Conference, Washington, DC.
- Fletcher, S (04/11). Unplugging the Math and Science Teacher Pipeline: Recruitment from Community Colleges. Austin Science Education at the Crossroads Conference, Austin, TX.
- Rodriguez, S., Fletcher, S., & Huff, C. (03/11). Unpacking mentorship: Voices from science teachers that mentor preservice teacher candidates. National Science Teacher Association Annual Meeting, San Francisco, CA.
- Fletcher, S. Sessions, A. & Naples, C. (7/10). Factors related to recruitment: The St. Edward's University Robert Noyce Scholars program Year Two findings. Poster presented at the NSF Robert Noyce Program Annual Conference, Washington, DC.
- Fletcher, S., Naples, C., & Sessions, A. (07/10). Building a Noyce Partnership between a University/Community College. Noyce Annual Conference, Washington DC.
- Fletcher, S (03/10) Science teacher recruitment and the Robert Noyce Teacher Scholarship Program: Promising strategies and possible connections. Symposium paper accepted at the National Association for Research in Science Teaching annual meeting, Philadelphia, PA
- Fletcher, S (09/09). Negotiating social capital at the intersection of university / school district partnerships, Paper presented at the Science Education at the Crossroads annual conference, Portland Or.
- Embry-Jenlink, K. & Fletcher, S. (07/09). Building a sustainable STEM educator pathway: The St. Edward's University Robert Noyce Scholars program Year One. Poster presented at the NSF Robert Noyce Program Annual Conference, Washington DC.
- Fletcher, S. & Luft, J. (04/09) Progressive Development of Beginning Secondary Science Teachers: A Longitudinal Study Paper presented at the National Association for Research in Science Teaching annual meeting, Orange County, Ca.
- Fletcher, S (01/09). Strand Coordinator – Teacher Beliefs and Practices, Association for Science Teacher Education Annual Conference, Hartford, Ct.
- Sloan, K., & Fletcher. S. (10/08). Assessment Literacy in the classroom. Invited professional development workshop for Covington Middle School faculty, October 13th, Austin TX.
- Fletcher, S (2008). Teacher Program Development as Aikido: One Warrior Searches for Harmony. Paper presented at the Science Education at the Crossroads annual conference, Alta, UT.
- Fletcher, S., Roehrig, G., Tobin, K., Bell, R., & Beeth, M. (2008). Lost in the crevasse : Perspectives on the relationship between theory and practice in science education. Paper set presented at the Association for Science Teacher Education annual meeting, St. Louis, MO.
- Fletcher, S. (10/07). Challenging pre-service teacher beliefs about teaching and learning and the theory/practice conundrum. Paper presented at the Science Education at the Crossroads annual conference, Amherst, MA.
- Fletcher, S. (9/06). Building a Science Education Program at a Small University. Paper presented at the Annual Science Education at the Crossroads Conference, Ogden UT.
- Brown, M., Roehrig, G., Kern, A., Luft, J., & Fletcher, S. (4/06). Predominant paradigms Of beginning science teachers: The development of a nature of science instrument. Paper presented at the National Association of Research in Science Teaching annual meeting, San Francisco, CA.
- Fletcher, S., Brown, M., Ursal, S., Crawford, H., Luft, J., & Roehrig, G. (1/06). Preliminary Findings from a multi-year secondary science teacher induction study. Paper presented at the Association for Science Teacher Education annual meeting, Portland, OR.
- Fletcher, S., & Luft, J. (4/05). Punctuated Equilibrium or gradual growth? Factors that influence preservice secondary science teachers beliefs. Paper presented at the National Association of Research in Science annual meeting, Dallas, TX.
- Fletcher, S., & Luft, J (2/05). Linking reflective practice and science as inquiry during an early field experience: Lessons learned. Paper presented at the Southwest Association for Science Teacher Education annual meeting, San Antonio TX.
- Fletcher, S., Luft, J., & Roehrig, G. (1/05). Teach/Reteach: The impact of a 2 X 3-day teaching experience on preservice science teacher reflection Paper presented at the Association for the Education of Teachers of Science annual meeting, Colorado Springs, CO
- Fletcher, S., Luft, J., & Fortney, B. (1/05). Three steps forward or two steps back/ Impacts on the beliefs

and knowledge of preservice science teachers. Paper presented at the Association for the Education of Teachers of Science annual meeting, Colorado Springs, CO.

Fortney, B., Luft, J., & Fletcher, S. (4/04) Informing expectations for early recruitment programs: Explorations among science teachers in a science teacher preparation program. Paper presented at the National Association of Research in Science Teaching annual meeting, Vancouver, BC.

Fletcher, S. (11/02). Social ecology in underserved communities; Using science to connect students to their communities. Paper presented at the National Science Teachers Association annual meeting, Albuquerque, NM.

Fletcher S. (10/99). Acres of Insects: using live aquatic insects in high school science classrooms National Association of Biology Teachers annual meeting, Fort Worth, TX.

Fletcher, S., Rodriguez, S., Kraus, E., & Lux, A. (2015). Texas STEM Teacher Circle: The St. Edward's University Teacher Induction Program. Austin Independent School District Annual Summer Science Institute, Austin TX.

Fletcher, S. (08/16). Video Analysis as Professional Development: Tips and Techniques. Center for Teaching Excellence Annual Symposium. St. Edward's University, Austin TX

Fletcher, S.S, (7/17). St. Edward's University Noyce Scholarship Program – Year Three. Poster presentation at the 2017 Annual NSF Noyce Summit, Washington DC.

Fletcher, S.S., Newman, C., Mueller, F., & Valdez, E. (7/17). Stories from the Field – In-service STEM teachers discuss pivotal moments as noyce scholars. 2017 NSF Noyce Summit, Washington DC.

Fletcher, S., Sloan, K., Kopec, R., Wilburn, K., & Rodenborn, S. (08/16). Teaching your Passion in a Living Learning Community. Center for Teaching Excellence Annual Symposium. St. Edward's University, Austin TX.

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Rodriguez, S. & Fletcher, S. (01/16). Observation as Professional Experimentation. An analysis of the noticing of secondary science cooperating teachers as they observe preservice teachers. Association for Science Teacher Education Annual Meeting. San Antonio, TX.

Peterson, L., Fletcher, S., Green Musselman, J., & Kennedy, B. (08/15). Signature Programs Information Session. Center for Teaching Excellence Annual Symposium. St. Edward's University, Austin TX.

Fletcher, S. (2015). Video Analysis as Professional Development: Tips and Techniques. Austin Independent School District Annual Summer Science Institute, Austin TX.

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Fletcher, S. (10/14). Project SUSTAIN – developing curriculum for informal science education sites. University of Georgia Science Education Invited Speaker Series. Athens GA.

Fletcher, S. (10/14). Video analysis as a tool for teacher development. University of Georgia Science Education Invited Speaker Series. Athens GA

Fletcher, S. (10/14). Community and collaboration: STEM teacher induction using the teacher circle model. University of Georgia Science Education Invited Speaker Series. Athens GA.

PROFESSIONAL ACTIVITIES

Faculty Senate – At-large member	2016-present
LLC Steering Committee – Academic Affairs	2016-present
School Committee – School of Education	2014 – 2016
Signature Programs Task Force	2014 – 2016
Signature Programs Academic Planning Group	2013-2014
SOE Web Content Steering Committee	2014-present
SOURCE Committee – Alt Programs	2014-2017
Search Committee, Wild Basin Educ. Director. SEU, Austin TX	2013
Search Committee, SOE language and lit. specialist, SEU, Austin TX.	2013
IRB Committee- Chair. SEU, Austin TX	2013-2014
Planning Committee, Sid Richardson /CREATE, SEU, Austin TX	2011-2013
Steering Committee, Texas Academy of Science, St. Edward's U. Austin TX	2010-2011
Search Committee, Wild Basin Director, St. Edward's U. Austin TX	2009-2010

Search Committee, Dean-School of Education , St. Edward's U. Austin TX	2009-2010
Program Review Panelist , National Science Foundation, Washington, D.C.	2008 - 2014
Science 4X4 Advisory Board , Austin ISD, Austin TX	2008-2010
Community Advisory Board , Austin ISD, Austin TX	2008-2011
Advisory Board Member, Jumpstart 2X2X2 , St. Edward's U. Austin, TX	2007 - 2009
Strand Coordinator , Assoc. of Science Teacher Education, Hartford, CT.	2009
Secretary , Faculty Development Committee, St. Edward's U. Austin, TX	2008 - 2009
Committee panel , IRB, St. Edward's U. Austin TX	2008 - 2014
Publication review panel , International Journal of Science Education	2008 - 2012
Participant , Grantsmanship intensive training Program, San Antonio, TX	January, 2008
Session Presider , ASTE Conference, St. Louis, MO	January, 2008
Conference Proposal Reviewer , NARST	2003-2013
Strand Coordinator , Southern Arizona Science Education Conference	April 2003
Professional Development Director , SUSD Inquiry institute, Tucson AZ	May 2002 - May 2003
Participant , Science Teachers And Reform-based Teaching , Tucson AZ	May 2002 - May 2003
Participant , UbD- Advanced Institute, San Antonio, TX	March 2002
Grant Proposal Reviewer , Eisenhower Grant Review Committee, Arizona	January 1999, 2000