Prof Dev 2017-2022

A. List professional activities.

1. Conferences/Workshops attended/conducted.
    - Attended TAMU Engineering Experiment Station Annual Research Conference, May 2017.
        - Created collaboration with Susan Woodard, TAMU College Station, to explore the feasibility of creating, growing and testing induced pluripotent stem cells for therapeutic use. Received a $2500 mini-grant to pursue (Susan Woodard, P.I.). Outcomes: co-sponsored a grant application to NSF ATE to create an articulation pathway with workforce training for community college students interested in therapeutics manufacturing. Grant was well-received but rejected.
    - Attended and presented at Bio-Link Summer Fellows Forum June 2017, Berkeley California
    - Attended SEA-PHAGES Annual Symposium with two students, June 2017, Washington, D.C.
        - Students presented research on Phage NoodleTree, discovered by Collin College students taking BIOL 1414 in Fall 2016
    - Attended and presented at the Advanced Technological Education (ATE) Principal Investigators Conference, October 23-25, 2017, Washington, D.C.
    - Attended and presented at Community College Undergraduate Research Initiative (CCURI) Meeting, November 2017, Austin, TX
    - Attended and presented at National Visiting Committee meeting reviewing AC2 ATE Grant, Lexington, KY, April 11-13, 2018
    - Attended TAMU Engineering Experiment Station Annual Research Conference, May 2018.
    - Attended and presented at Bio-Link Summer Fellows Forum June 2018, Berkeley California
    - Attended and presented at the Advanced Technological Education (ATE) Principal Investigators Conference, October 24-26, 2018, Washington, D.C.
    - Attended Texas Community College Teachers Association (TCCTA) “Leading from the Middle” Conference, San Antonio, Texas; July 15-17, 2018
    - Attended Mini-BIOMAN training on improving student lab experiences by optimizing function of the cellobiose enzyme and the Bio-Rad biofuels kit; Canandaigua, New York, June 24-27, 2018
        - This training was offered by the NSF ATE-funded Center, NBC2

- Attended and presented at High Impact Technology Exchange Conference (HI-TEC) meeting, Miami, Florida, July 23-26, 2018
    - Was in charge of the exhibit booth for AC2, set-up and scheduling
- Attended Faculty Development Conference, August 16, 2018
- Attended and presented at National Visiting Committee meeting reviewing AC2 ATE Grant, Irving Texas, April 3-5, 2019
    - This annual committee meeting has the purpose of evaluating our NSF ATE grant
- Attended and presented at High Impact Technology Exchange Conference (HI-TEC) meeting, St. Louis, Missouri, July 22-25, 2019
- Attended the Advanced Technological Education Principal Investigators Conference (ATE-PI), October 23-25, 2019, Washington, D.C.
- Attended the AC2 Biomanufacturing Conference (virtual), 2020
- Attended Faculty Development Conference January 2021 (virtual)
- Virtually attended the Working Partners Workshop from May until July, 2021
    - Workshop focused on working with industry partners, selling your program, and eliciting help from community partners
- Attended NBC2 mini-BIOMAN to learn how to integrate monoclonal antibody production into a biotech course – July 2021, Montgomery Co, PA
- Attend Industrial Biotechnology Teacher Experience through Biotility/UFlorida, July 2022, Gainesville, FL
- Attended the BioNorthTX IC3 Conference, September, 2022, Grapevine, TX
- Attended The Center for Global Health Initiatives (CGHI) BioInnovation Summit, Atlanta, GA, October 2022
- Manned an information booth at the Science Teachers Association of Texas CAST conference to present information about the BACE exam, November 2022, Dallas, TX

2. Professional presentations, papers presented/published/submitted for publication.
    - Co-presented "Restriction Challenge: A Case Study or Exam Question," at Bio-Link Summer Fellows Forum, June 2017, Berkeley California
    - Assisted with a breakout session on improving Communities of Practice at Bio-Link Summer Fellows Forum, June 2017, Berkeley California
    - Co-presented the session "Team-Based Learning" at the ATE Principal Investigators Conference, October 23-25, 2017, Washington, D.C.
    - Co-presented session on the need for authentic research in freshman-level courses at the ATE Principal Investigators Conference, October 23-25, 2017, Washington, D.C.

    - Presented on the integration of amylase and cellulase projects into BIOL 1406
- Attended and presented at Community College Undergraduate Research Initiative (CCURI) Meeting, November 2017, Austin, TX
    - Co-presented on the integration of authentic research into freshman and sophomore-level courses, including the integration of the amylase and cellulase projects into BIOL 1406 and independent research projects in genetics and cell culture
    - Brought two students to present their annotation on phage BQuat
- Assisted with the presentation, "Selling your Administrators" at Bio-Link Summer Fellows Forum June 2018, Berkeley California
- Presented the session, "Bringing Gene Expression to Life" at Bio-Link Summer Fellows Forum June 2018, Berkeley California
- Co-presented at a Breakfast Roundtable, "Inquiry-based Biology Lab" at the ATE Principal Investigators Conference, October 24-26, 2018, Washington, D.C.
- Assisted AC2 team in presenting a Breakfast Roundtable on participation in CSOs at the ATE Principal Investigators Conference, October 24-26, 2018, Washington, D.C.
- Co-presented the session "Using Undergraduate Research as a Student Recruitment Tool for Biotechnology Programs" at High Impact Technology Exchange Conference (HI-TEC) meeting, Miami, Florida, July 23-26, 2018
- Co-Author: Kirkpatrick, Bridgette, Twichell, Carole, & Lawson, Jonathan. *Laboratory Manual BIOL 1406/1408 Amylase/Cellulase*, 1st ed., Hayden-McNeil, 2019
- Co-Presented "Restriction Challenge: A Case Study or Exam Question" at a Conference for the Advancement of Science Teaching (CAST) workshop, Fort Worth, Texas, November 2, 2018
    - This presentation was sponsored by MiniOne, a company that I became acquainted with at a previous conference. They wanted to present a workshop for high school faculty to introduce the concept of restriction endonucleases and gel electrophoresis
- Attended and presented at High Impact Technology Exchange Conference (HI-TEC) meeting, St. Louis, Missouri, July 22-25, 2019
    - Presented Posters: "Deepen Learning, Maximize Investment, AND Stimulate the Local Economy? A Study of CXO Models and Business Incubators", by Abbe Kesterson, Mary Slowinski, Carole Twichell and Bridgette Kirkpatrick; and "Envisioning Change: Challenges and Successes

of Inquiry-Based Biology Labs at the Community College Level" by Bridgette Kirkpatrick, Rebecca Orr, Carole Twichell, and Jonathan Lawson

    - Co-Presented a breakout session "Selling Your Ideas"

- Attended the Advanced Technological Education Principal Investigators Conference (ATE-PI), October 2019

    - Co-led a breakfast roundtable to describe and advertise the changes that the DBCT had made in BIOL 1406 pilot lab

3. Active involvement in professional organizations.
    - Member of Bio-Link/InnovATE Bio
    - Member of the Leadership Team for the AC2 Advanced Technological Education (ATE) Regional Center Grant, ending November, 2019
        - The main focus of my participation is expansion of undergraduate research opportunities in biotechnology education and increased 2-year to 4-year articulations
    - Member of the Contract Service Organization Community of Practice sub-team from AC2 that is working on a collaborative website for community college-supported contract service
    - Texas State Coordinator for the IRCS grant
    - Member of the District Biology Curriculum Team, Collin College
    - Discipline Lead, Biology and Biotechnology, Collin College

Coursework Completed

- MATH 1314 – Statistics, Spring 2020
- MUSI 1183 – Voice, Spring 2021
- SPAN 1411 – Spanish I, Spring 2022
- BACE Certification, July 2022