

MAHUA R CHAKRABORTY

EDUCATION

- 2015- Specialist in Education in Educational Leadership Ed.S ELPA (East Tennessee State University)
- 2007- Certified in AP Chemistry
- 2005-2009 -Tennessee Teaching License: Area of endorsement 7-12 grades Chemistry and general Science for 7th and 8th grades
- 1999-2000 University of Oklahoma, Norman, OK
- Programming in Java-1 (CS1323) and Java (CS1333)
- 1989-1990 University of Pune, Pune, India
- B. Education (Math and Science)1986-1988 University of Pune, India
- 1986-1988 M.S (Chemistry)
- 1983-1986 University of Pune, India B.S. (Chemistry)

PROFESSIONAL DEVELOPMENTS

- October 2021- Attended Niswonger workshop in Dobbyn's Bennet for AP science.
- June 2020- Participated in Canvas workshop and PBL workshops
- April 2019- Attended Robotics workshop under the supervision of Dennis Courtney.
- June of each year from 2015-2018 -Attended Summer workshops MSP-HCS with Dr. Chi Che and group during the summer vacation.
- March 2015- attended NSTA in Chicago
- October 2013 -Attended the Math and Science education conference
- March 2013- Attended a workshop sponsored by Texas Instrument Inc. on 'Implementing technology with common core standards in Chemistry and Physics'
- June 2012- Attended two weeks workshop on the use of Modeling in Chemistry instruction at high school level
- Nov of each year 2012,2008,2016,2017- Attended Tennessee State Teachers' Association (TSTA) conference.
- Oct 2011- Attended CMS/school website training
- Aug 2010 -Attended a class on 'Different modeling and inverted curriculum strategies' at a Johnson County school.
- Nov 2009- Attended AP Chemistry workshop at Greenville, TN
- June 2008- Attended two weeks workshop on 'Reaching for excellence in middle and high school science teaching'
- Oct 2007 -Attended NALS conference

COURSES TAUGHT AND DEVELOPED

- Honors Chemistry
- Chemistry I Laboratory
- Physics
- Physics Laboratory
- Advanced Placement Chemistry
- Advanced Placement Chemistry Laboratory
- Advanced Physical Science
- Advanced Physical Science Laboratory
- Developed an Integrated Curriculum In Science ✦ Organic Chemistry Laboratory at ETSU

RESEARCH

Publication and presentations:

- 2015 Presented in NSTA meeting
- 2013 Chakraborty Mahua and Ningfeng Zhao (2013) A new approach to bring scientific practice to secondary classrooms, Tennessee Educational Leadership, 41 (1), 44-51.
- 2012 Presented a seminar titled 'Thinking like scientists: data analysis in middle and high school' at TSTA conference at Nashville, TN
- 2008- Presented a seminar on "Teaching Oxidation-Reduction to high school students" at TSTA conference, Nashville, TN
- 2000-2004- Research in Biochemistry and Molecular Biology Department in ETSU
- 1999-2000- Research in Biochemistry and Molecular Biology Department in Oklahoma Health Science Department

AWARDS

- 2015-2018 Attended Summer workshops MSP-HCS with Dr. Chi Che and group. Each year received \$1000 to buy materials needed.
- 2012 -Attended two weeks workshop on 'The use of Modeling in Chemistry instruction at high school level' and received \$4000 as grant to purchase school supplies
- 2012- The above workshop also provided 24 laptops to University school
- 2011 -Dean's mini grant titled 'To enhance student learning through visual aids' \$700
- 2010- Dean's mini grant titled 'Implementing web based platforms in K-12 classrooms' \$750
- 2009- Dean's mini grant titled 'Visualization at the atomic level' \$700
- 2008- Attended two weeks workshop on 'Reaching for excellence in middle and high school science teaching' with Dr. Jack Rhoton and received \$2500 as grant to purchase school supplies

SERVICE and LEADERSHIP

- 2012- present Served in the calendar committee
- 2018-2020 Served in the Endowment committee
- 2016-2020 Science Bowl
- 2014- present Beta Club
- 2016- Present Served as a leader in inviting engineers from Eastman every year.
- 2007-2015 Served as a member of the University School foundation.
- 2010 -Served in Textbook committee at Washington County
- 2012- Served in SACS committee
- 2010 -Served as University School Technology Committee.
- 2013 -Served as a leader to host dinner for Ecuadorian guests.
- 2009-2016 -Served as a leader in School Beautification committee.
- 2012,2017-Served in various hiring committee
- 2010- Served as a voting faculty representative on the employee and retiree benefits standing committee (ETSU)
- 2011-2013 -Participated in teacher admission boards at the Clemmer College