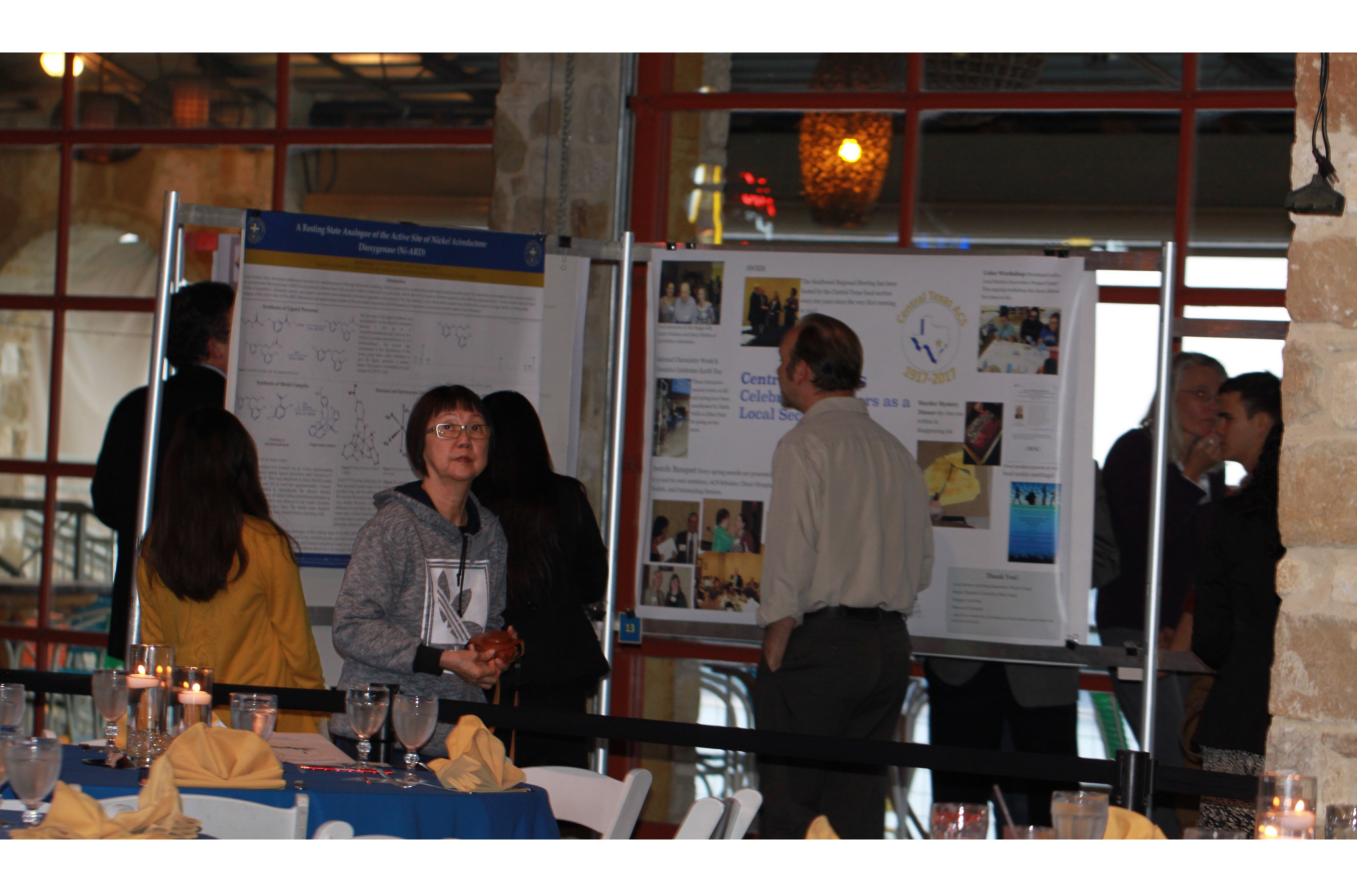


Poster Session included 24 posters!

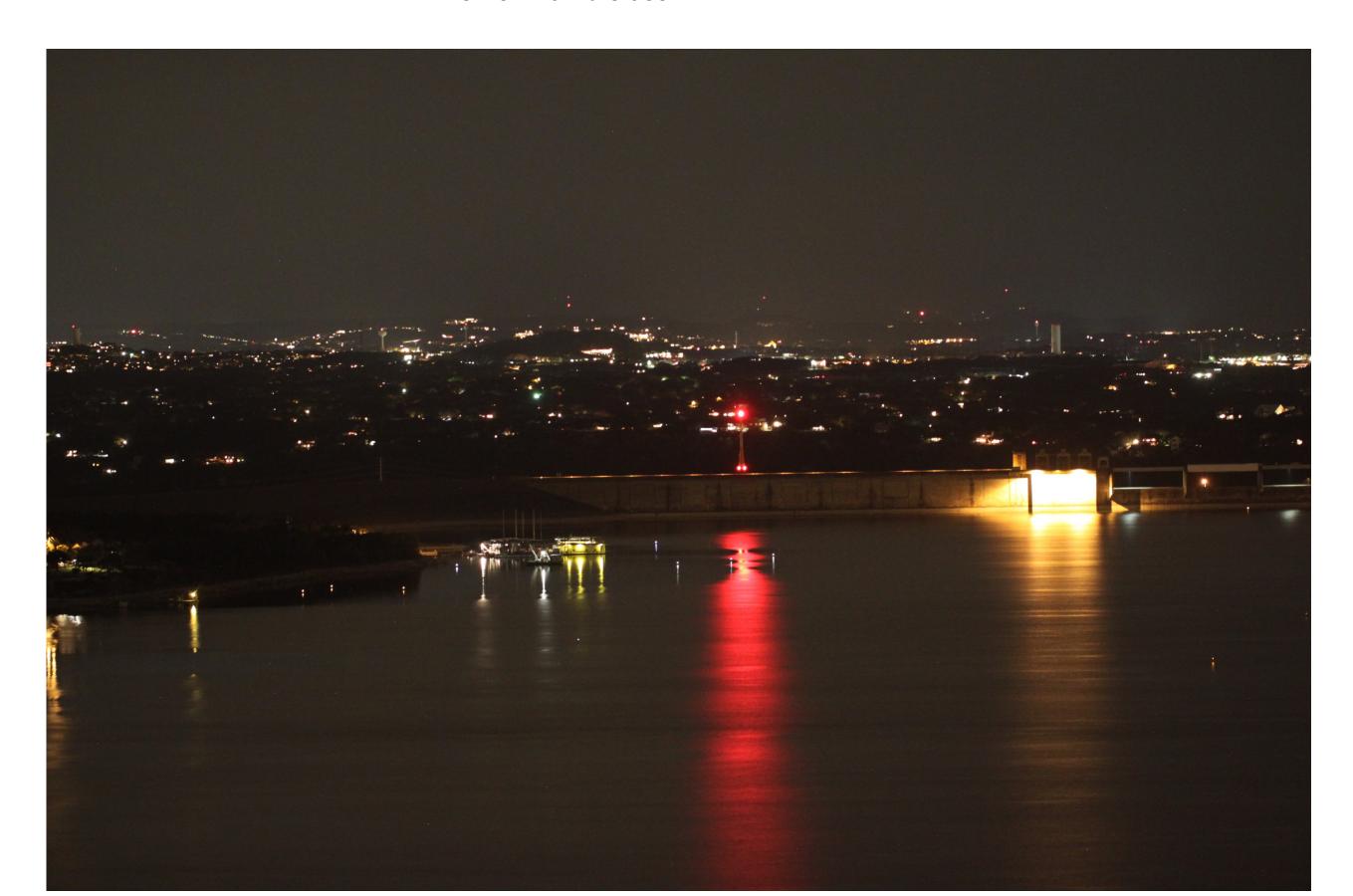


A page from the poster program: twenty four posters were presented on topics including research, student organizations, TBD PREM Pipeline to Success section activities and history of Felicia Konopko Heather Hansen, Carlos Corona, and William Brittain University of Texas Texas State University science. The PREM student organization originates from the NSF-funded research partnership. "Signal-on" Electrochemical Members include driven students conducting materials science research, organizers planning Assembly of Gold Nanostars collaboration events, and research faculty serving as mentors for dozens of undergraduate and Luisa A. Mayorga, Kenneth N. Hipp, Y graduate students at Texas State University. St. Edwards University A Control Chart for pH Meter Calibration We report the design and fabrication of two "signal of two signal of two Kyle C. Hemmes and Paul R. Hemmes on gold nanostars-modified gold disk electrodes. The Texas State University based on target binding-induced change in the conformation Control charts are widely used industrially for statistical process control(SPC) of a great many and methylene blue-modified DNA probe. With further chara processes. The measurement of pH is said to be the most common quantitative measurement these sensors could find applications in hybrid electrochemical an in chemistry. Yet the literature is virtually silent on application of SPC to pH measurements. spectroscopy (EC-SERS) detection of DNA sequences relevant to cance One likely reason for this is that the conventional control charts constructed using the x bar -R. method fail. We have found that the within run error (the standard deviation of repeated results following one pH meter calibration) is much smaller than the between run error (the The Periodic Table of the Elements: A Brief History standard deviation of the repeated measurements of the same sample following multiple Karen A. Lewis calibrations). This difference is believed due to variations of the liquid junction potentials, We Texas State University have found that a control chart based on moving averages allows one to conclude that pH An overview of the chemical and artistic evolution of the Periodic Table of the Elements, electrode calibration demonstrate statistical control or not. beginning with Antoine Lavoisier's 1789 list of the "simple substances" and culminating with the 2016 release of the "completed" Periodic Table of the Elements. We take a look at how A Resting State Analogue of the Active Site of Nickel Acireductone Dioxygenase (Ni-ARD) over a dozen people, including Mendeleev, Bohr, and van den Broek, have tried to organize Jennifer Jaimes, Dr. Vincent Lynch, and Dr. Santiago Toledo the elements using a variety of tables, spirals, trees, and helices. A way to study how structure influences function of a metalloenzyme is through biomimetic Effect of Trichoderma viride Volatile Organic Compounds on Growth Inhibition and Protein modeling, which is achieved by synthesizing small metal complexes that mimic the electronic environment of the enzyme's active site. Acireductone Dioxygenase (ARD) is of particular interest due to the enzyme's ability to bind both iron and nickel, which allows it to catalyze Elizabeth Nguyen, Sydney Mitchell, Joseph Wagner, Andrew Kocian, and Dr. Mary A. Kopecy distinct reactions with differing regiospecificity. For this research, a new biomimetic model was synthesized as part of a larger family of resting state analogues of the active site of Ni-St. Edwards University Trichoderma viride, a competitive soil fungus, inhibits the growth of wood decaying as Neolentinus lepideus via production of volatile organic compounds. This inter Central Texas ACS Celebrates 100 Years as a Local Section potential to serve as an alternative to chemical treatment of fungal wood infe Diane Kneeland focuses on further elucidating the impact of VOCs on N. lepideus growth in ACS Central Texas Local Section synthesis thus enhancing our understanding of their potential biocontrol e Central Texas Local Section, established in 1917, is defined by the five counties of Travis, Williamson, Bastrop and Caldwell. The local section hosts monthly meetings on science, Synthesis, Characterization and Polymerization of Salen Iron(III) Co nunity outreach activities, and a Regional Meeting every decade. Horsfall Somina, Sara Mackey, Vincent Lynch, Steve Socol, Lino Or We will study the syntheses of salen iron (III) complexes u products will be characterized using methods such as G

Journalism students conducted video interviews with senior chemists



The view from the deck



1917 Periodic table made of cupcakes





4:30 pm
5:30 pm
5:36 pm
6:30 pm
7:00 pm
Poster session, networking
Social Hour
Official Sunset at the Oasis
Buffet
Speakers

Dr. Robert L. Soulen, Southwestern University, retired "Founders of the ACS Central Texas Section"

Dr. Barry J. Streusand, Texas State University "The First Regional Meeting, Austin 1945"

Dr. Alan Campion, University of Texas "Remembering Norman Hackerman"

Keynote Presentation

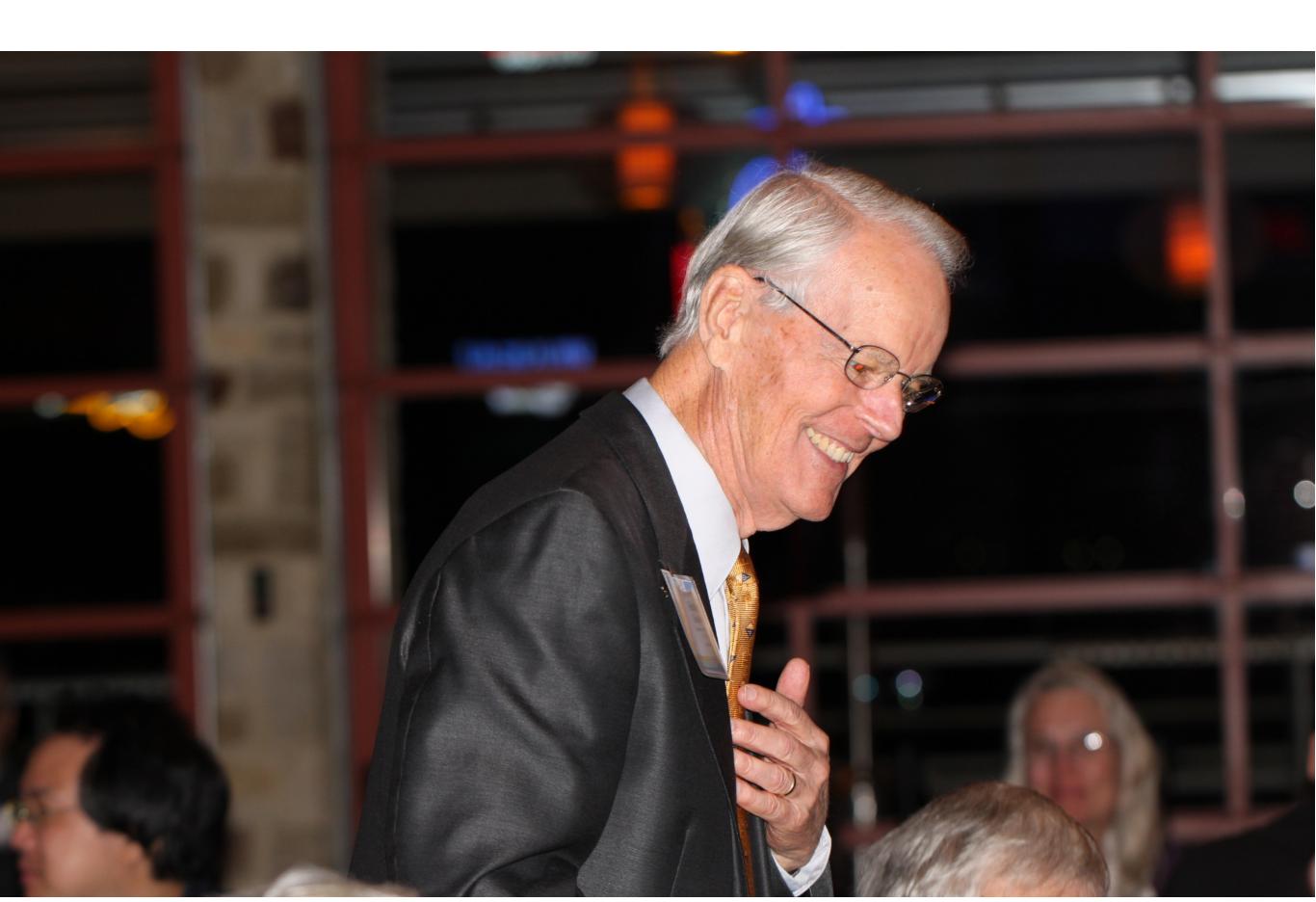
Dr. Nancy Ryan Gray

President and CEO, Gordon Research Conferences "100 Years of Chemistry in 140 Characters"

The Central Texas Section Centennial recognized with a plaque and certificate



Dr. Robert Soulen presents on the founders of the Central Texas ACS



The First Regional Meeting 1945

Barry J. Streusand

Department of Chemistry and Biochemistry

With thanks to an Unknown Author (possibly the late Jim Boggs)



From left: Margaret Connor, Chair, Central Texas; Dr. Nancy Gray, President and CEO, Gordon Research Conferences; Dr. Alan Campion, UT Austin; Dr. Robert Soulen, Southwestern University, retired; Dr. Paul Jagodzinski, ACS Director; Ms. Kate Fryer, ACS Membership and Society Services; Dr. Barry Streusand, Texas State University; Dr. Diane Kneeland, Chair-Elect, Central Texas



The give away: a pint glass with our new logo!

