TCU'S COFFER WINS 2010 DOHERTY AWARD; NEW AREA FELLOWS.....p. 5, 7

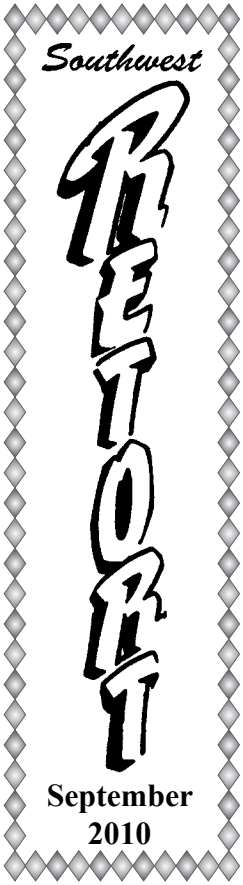

TABLE OF CONTENTS

INDEX OF ADVERTISERS

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Southwest Retort

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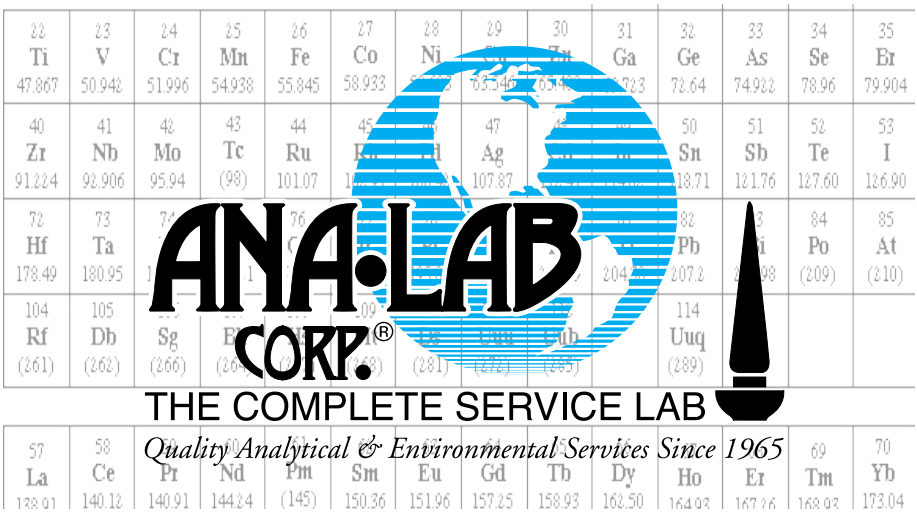

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Southwest Retort

SIXTY-THIRD YEAR September 2010

TCU'S COFFER WINS 2010 DOHERTY AWARD

by E. Thomas Strom

The 2010 winner of the D-FW Section's Wilfred T. Doherty Award is materials chemist Jeffery L. Coffer of Texas Christian University. Jeff is the seventh winner of this award from TCU, the others being William Watson, Paul Bartlett, Manfred Reinecke, William Smith, C. David Gutsche, and Robert Neilson.

Jeff Coffer was born in Union, SC. His father worked in textile management. Jeff attended the nearby Wofford College. Although he was interested in science from the beginning, he took courses in physics, biology, and chemistry before starting to focus on chemistry the second semester of his sophomore year. After receiving his BS degree in 1982, he then entered graduate school at Clemson. He actually met his future mentor, Dennis Bennett, at a local section ACS meeting. When Bennett changed locations to the University of Wisconsin at Milwaukee, so did Jeff. He received his MS degree there in 1985 and his Ph.D. in 1987. His work involved main group transition metal isocyanide chemistry. He enjoyed the research experience with new questions to be answered every day and the stimulation that came with the interactions with new students. The result was that he decided to seek an academic position. He first did a postdoc at the University of Illinois, where he worked with Harry Drickamer and John Shapley, and then in 1990 he joined the TCU faculty. He progressed through the ranks to become a full professor in 2001, and he served the department as Chair from 2003 to 2009. He has won a number of TCU awards, but the most recent is his selection in 2009 for the Chancellor's Award for Distinguished Achievement as a Teacher-Scholar. The award consists of a $20,000

honorarium and an engraved plaque. The previous winners from chemistry were Bill Watson, Bill Smith, and Bob Neilson. Jeff's photograph also is displayed prominently in the TCU library along with those of previous winners. Of course, now Jeff's photograph will also be displayed in the Gallery of Doherty Award Winners in Berkner Hall at UT-Dallas.

Describing Jeff's research interests briefly, one can say that it focuses on nanostructures relevant to biomaterials and nanoscale electronics, with the two not necessarily mutually exclusive. Jeff prefers interdisciplinary problems. He started out working with nanosystems in solution, not thin films. He studied the CdS system, and his group was the first to use DNA as a stabilizer. His view was that he wanted to make an ordered array of nanoparticles, and nature was providing that ordering template in the form of DNA. Calf thymus provided a reasonably inexpensive source of the DNA. About the same time, early to mid-90's, they began looking at other particles. At a visit to TI, Bruce Gnade suggested that he needed to work with silicon. Jeff thought that there would be possibilities using porous silicon for chemical sensing, and his studies with silicon-based material have also given fruitful results. He has worked a little bit with so-called 3,5 semiconductors and with gallium nitride. Nanostructured silicon materials have evolved into biological materials relevance, and this is where a lot of the effort in Jeff's group is now going.

Jeff's met his wife Mary at graduate school in Wisconsin. She was a biochemist. They have three children, Matthew, age 21, a senior at Trinity University with a major in accounting and a minor in classics, Michael, age 18, starting at the University of Chicago to study economics and math, and Meagan, age 16, still in high school. Jeff likes to read, particularly history books. He has just finished reading *George, Wilhelm, and Nicholas*, a book describing the monarchs of England, Germany, and Russia prior to World War I, which he believes shows why hereditary monarchy is a really bad idea. He also enjoys running. By the time you read this piece, Jeff will have received his $1500 honorarium and given a talk on Sept. 13 at TCU on "Semiconductor Nanostructures as Useful Biomaterials." I hope many of our readers will have joined me there to hear this remarkable materials chemist. I predict the Doherty Award will not be the last prestigious award this fine chemist will receive.

BARTSCH, BUTTRAM, H ENDRICKSON, SMITH, WILKINS AND WILSON NEW ACS FELLOWS

The ACS Fellows program is designed to honor members who have demonstrated excellence in their contributions to the chemical enterprise coupled with distinctive service to ACS or to the broader world of chemistry. This year's class of fellows include six individuals from sections served by *The Southwest Retort*. We should have had a seventh, as former TCU Welch Professor **C. David Gutsche** was also honored, but ACS chose to highlight his affiliation with Washington University instead. The Fellows attending the Boston ACS meeting received their certificates and pins from ACS President-Elect Nancy Jackson on Aug. 23. Here are short vignettes about our new Fellows.

Professor Richard A. Bartsch is a Paul Whitfield Horn Professor at Texas Tech. His research interests involved new macrocyclic ligands and their applications in metal ion separations. His activities have produced more than 400 chemistry publications and 50 graduate students have received Ph.D. degrees under his mentorship. He has also served Texas Tech twice as Chair for a total of nearly 15 years. Prior to his arrival in Lubbock, Dick served as Assistant Program Administrator for PRF for one year at ACS headquarters. He was nominated as a Fellow by ACS Industrial and Engineering Chemistry Division for his activities in the Separation Science and Technology Subdivision, including service in several officer and committee positions, organization of symposia at national meetings, and editing two volumes in the ACS Symposium Series.

Professor Mike Buttram joined Texarkana College in 1971. He has served the East Texas ACS Section as Secretary, Councilor, and Chair for two terms. He was a three-year member of the Task Force on Undergraduate Programming and served as Chair of the Undergraduate Program for the 2004 Philadelphia ACS National Meeting. As a result of his activities the East Texas Section has broadened its focus to include many educational entities. It is now very common to have 150-200 students in attendance when earlier meetings were fortunate to have 20 members present. Under the leadership of Mike as sponsor, the Texarkana College Chemistry Club, TC_3, has been a successful Student Affiliate/Member Chapter of the ACS. The club has earned "Outstanding Chapter" awards for eight of the last nine years and was noted as a Green Chemistry Chapter the last three years.

Dr. Connie Hendrickson has been the owner for 27 years of her own business, Arkon Consultants, specializing in surfactant and surface chemistry. Partnering with NuPro Technologies, her company was the winner of the 2006 EPA Presidential Challenge in the Small Business Division for "Environmentally Safe Solvents and Reclamation in the

Flexographic Printing Industry." She was the 2007 winner of the D-FW Section's W. T. Doherty Award. She has served the D-FW section as Chair and was General Chair when the section hosted the 1998 ACS National Meeting in Dallas. She was Program Chair for the 2004 Southwest Regional Meeting held in Ft. Worth. She served as Treasurer of the ACS Division of Chemical Marketing and Economics and in 1999 was President of the American Institute of Chemists. That group valued her service so much that they elected her as an AIC Honorary Fellow, joining such chemists as Glenn Seaborg, Linus Pauling, and Harold Urey.

Dr. Dennis W. Smith, Jr. is the new Welch Professor at the UT-Dallas. He came to UTD from Clemson University, but he had previously worked in Texas for Dow Chemical Co. He is a co-founder of Tetramer Technologies and is an expert on fluorine-containing polymers and renewable-resource and biodegradable materials. He has authored or co-authored over 100 publications. He has served the ACS Division of Polymer Chemistry as Workshops Co-Chair, Publicity Chair, Assistant Secretary, Alternate Councilor, Councilor, and Chair. He is an Associate Member of the IUPAC Polymer Division. He organized the ACS 2009 Symposium on "Fluorine-Containing Polymers" and is the Editor of the journal *Polymer Bulletin*. He is also on the Editorial Board for the journals *Polymers for Advanced Technologies* and *High Performance Polymers*.

Professor Charles Wilkins of the University of Arkansas has specialized in the development of unique and innovative chemical analysis equipment throughout his academic career. In 1978 at the University of Nebraska, Wilkins and his colleague Michael Gross developed the first analytical Fourier transform mass spectrometer (FTMS). As a result of their work, Nicolet Analytical Instruments decided to commercialize the technique. Over 150 FTMS instruments have been installed throughout the world. He and his students published the first demonstration of a gas chromatography-infrared-mass spec combination. He has been a leader in laboratory computer applications to chemical analysis, and he has recently concentrated on polymer analysis by mass spectrometry. He has served as Chair of the ACS Divisions of Analytical Chemistry and Computers in Chemistry. He has been a member of the Analytical Division's Executive Committee since 1991.

Dr. Angela Wilson is Professor of Chemistry, Associate Faculty of Computer Science, Co-Director of the Center for Advanced Scientific Computing and Modeling (CASCaM), and Assistant Chemistry Chair at the University of North Texas. She joined UNT in 2000, where she leads a research group of 28 members. Her research involves the development and application of quantum mechanical methodologies. She holds an NSF Career Award and the Wiley *International Journal of Quantum Chemistry* Young Investigator Award. She is a member of the Editorial Board for *J.*

Phys. Chem. One of her papers has made a top ten citation listing for the *Journal of Molecular Structure THEOCHEM*. She is a Councilor for the D-FW ACS Section. She has been a member, now a consultant, to the ACS Committee on Science, and last month was reelected to a second term on the ACS Committee on Nominations and Elections.

STATEMENTS FROM ACS PRESIDENTIAL CANDIDATES

Editor's Foreword. *As is our usual practice in September, we are publishing 300 word statements provided to us by this year's candidates for ACS president. The order of the statements is alphabetical by last name. The percentage of ACS members voting for president has been shrinking year after year. Voting for president is one of the easiest things members can do and one of the most important. You can vote by mail or online. Read these statements carefully and then vote!*

STATEMENT FROM LUIS ECHEGOYEN

It is an honor to have been selected as a candidate for president of ACS. If elected, I intend to use my academic, industrial, governmental and international experience to set specific and realistic plans to convince other scientists, government, and the public of the centrality and importance of chemistry. I would

Promote Inter-and Multidisciplinary Education and Research with a Global Vision to the Future. With the Committee on Professional Training relevant divisions, I will evaluate curricular alternatives that better reflect the ways in which chemistry is conducted in industry and academic institutions around the world.

Promote Closer Ties Between Industry and Academic Institutions. I will foster communication between several ACS divisions and committees to help catalyze a positive and synergistic interaction between these two sectors.

Advocate Strongly for Increases in Research Funding. I plan to work closely with the ACS Office of Public Affairs (OPA) to educate and convince Congress that investing in basic chemical research is essential for the health of the U.S. innovation engine and the long range competitiveness and prosperity of the country.

Increase International Partnerships. I will encourage partnerships through the expansion of existing programs at ACS, the creation of new programs, the formation of more ACS international chapters, and the establishment of new partnerships with other professional societies around the world.

Optimize Efficiency at National Meetings. I will work closely with ACS divisions, local sections and committees to find way to maximize efficiency, minimize duplication, and achieve increased attendance at presentations and symposia.

If I win, I would be president-elect in 2011, the International Year of Chemistry, an ideal opportunity to start disseminating our message to the world. I look forward to taking these challenges for the benefit of our community and to convince others of the importance and centrality of our discipline.

STATEMENT FROM BASSAM Z. SHAKHASHIRI

DOING OUR BEST FOR ACS AND FOR SOCIETY

I seek your vote for ACS president and your help so we can together sustain ACS as the world's leading scientific organization.

ACS is a *membership* organization. ACS must continue to nurture its members, advance the professional status of chemists everywhere, and work for the betterment of the total chemistry enterprise---academic, industrial and governmental. ACS has great resiliency and the capacity to adapt its programs and services to the rapidly changing world of science and technology.

Chemistry is the key to eradicating disease and reducing poverty. Our research and our technology can provide clean water and nutritious food, meet energy demands, and help lead to sustainable development everywhere. And, just as important, chemists can help society develop *the will* to improve the quality of life on the planet.

Chemistry brings a wide range of goods and functions to everyone and thus is vital to our democracy. Science literacy is necessary for the democratic process to work. By science literacy I mean an appreciation of science and technology and the potential risks and rewards in both. The level of science literacy in any society is a measure of what it values and its resolve to put these values into practice.

I want to devote my presidency to *showcasing* chemistry at its best in addressing significant societal concerns. I have the experience of thinking about and acting on these important aspects of chemistry. During my six years as NSF assistant director our record was second to none in advocating new program opportunities for research and education *and* in securing the necessary Federal funds.

I will serve ACS as an open and uniting leader. I ask for your vote so that together we can do what is best for ACS, for science, and for society. www.bzs4acs.org.

DISCUS AT THE STATE FAIR. Diversity in Science in the United States (DISCUS) is an educational outreach program funded at UT-Arlington by NSF to develop and disseminate pedagogical materials to K-12 teachers. Organized primarily through a web portal (www.uta.edu/discus), the DISCUS program allows teachers to search, share, and publish lesson plans that are designed to effectively communicate crucial science topics to limited English proficiency (LEP) students. Submitted lessons are peer-reviewed and freely available for use by registered users. All lessons follow a 5E model (considered by most to be a best practice for organization of a lesson) and make use of sheltered instruction operation protocol (SIOP), procedures which showcase a wide variety of teaching strategies to appeal to multiple intelligences. Importantly, when lessons are made more rich and engaging by the incorporation of video, audio, graphics, hands-on, and collaborative learning techniques among others, the material is not only conveyed more effectively to LEP students, it is also more interesting and engaging to all of the students in the classroom. We are especially pleased to have the 2010 D-FW ACS Werner Schulz Award winner, Mrs. Jennifer L. Cruze, master science teacher at Carroll High School and accredited SIOP instructor, to help guide our efforts on this front. She is also one of our top lesson contributors. Other contributors include local K-12 teachers and soon-to-be teachers, many of whom are pursuing higher teaching degrees at UT-Arlington.

The DISCUS program is just getting started. By the time you reach this, more than 50 lesson plans should be available on the website. To further disseminate our efforts, we will be running a booth at the Texas State Fair (a map of our location and details are posted on the website) for at least the next four years. At the Fair we will have science demonstrations, take-home experiment packets, and materials to show all that DISCUS has to offer. However, our endeavors must be a collaborative activity, so if you have any comments or suggestion about how we can improve our program, feel free to e-mail me at discus@uta.edu or stop by our booth at the Fair (Sept. 24-Oct. 5). **Kevin Schug**, Assistant Professor, UT-Arlington.

LONE STAR SOLUTIONS AND CAST. Mark your calendars for Oct. 8-9, for the next workshop for Texas CENTRAL: Lone Star Solutions for Chemistry at UNT-Denton. (CENTRAL = Chemical Education Network Through Research And Learning). If you are interested in developing activities supporting the new, revised TEKS for Chemistry that are aligned with the Texas College and Career Readiness Standards (CCRS), then please attend this workshop that begins at 11 a.m. on Oct. 8 and ends

at 2 p.m. on Oct. 9. The philosophy behind this endeavor is to promote education in the state of Texas by introducing students to concepts using facts and folklore about Texas to teach science. We believe that the best way to engage Texas students in "anything" is to connect them to where they live---to the great state of Texas---and all she has to offer. All the activities we do and we develop at this workshop will have a Texas connection. The enrollment for this workshop is limited. The cost is $190 per person (**POs** are accepted). Please, register by Sept. 24 at midnight. Info at: https://callevents.unt.edu/ei/getdemo.ei?id=3&s=_3000VYEX3

It is also time to register for CAST. The program starts on Thursday, Nov. 11 at 8 a.m. and ends at 5 p.m. on Saturday, Nov. 13. The location is at the George R. Brown Convention Center, 1001 Avenida de last Americas, Houston, TX 77010. Info at: http://guest.cvent.com/EVENTS/Info/Summary.aspx?i=e523b97e-10dd-4f10-95e8-c2d86dbe22c2

Thanks to Dr. Diana Mason, UNT-Denton for these two items.

BCCE REPORT. BCCE General Chair **Dr. Diana Mason** reports that BCCE was a super success with over 1200 attending the five day international event at UNT. There were participants from six continents. IUPAC's 2011 International Year of Chemistry was introduced at the Pachanga Internationale featuring Al D. Hyde and the Keytones.

TEXAN AMY CHYAO WINS AT INTEL SCIENCE FAIR. Sixteen year old Amy Chyao of Richardson, TX, won top honors at the Intel International Science & Engineering Fair held May 9-15 in San Jose, CA. She received the top prize of $75,000 for research to develop a photosensitizer for photodynamic therapy in cancer treatment. She also received the inaugural Gordon E. Moore Award, given in honor of the Intel founder, who is best known for Moore's Law. In addition, Chyao won in the chemistry subject category, which earned her an additional $8,000.

NATIONAL CHEMISTRY WEEK (NCW) OCT 17-23. Celebrate National Chemistry Week (NCW) with chemists throughout the country the week of Oct. 17-23. This year's theme is "Behind the Scenes with Chemistry." Chemistry is behind the sciences in movies, set design, make-up, and those wonderful movie special effects we all enjoy. It is prominent in the TV shows "Mythbusters" and the CSI series. In the Harry Potter books, Harry used it at Hogwarts to make up special potions. Your students can explain to the public that science is not mysterious or magical but can be explained by basic principles.

A community event called Science in the Cinema Café is being chosen this year to unite ACS members across the country. There are tips for organizing a science café on the ACS website. The ACS is sponsoring a poster contest for grades K-12 focused on "Where's the Chemistry?" The poster should relate

to common applications of chemistry that people may not recognize as chemistry. See the ACS website (www.acs.org/ncw) for more details and for materials you can purchase to celebrate NCW at your school or business. For additional information, contact D-FW local coordinator Dr. Cecilia Sehr at Cecilia.Sehr@bishop-lynch.org.

Send material for this column to Mary Teasdale at (owlcritic75@yahoo.com) or to Tom Strom at (tomstrom@juno.com).

UNT CHEMISTRY TO CELEBRATE CENTENNIAL

Have you heard? It is true! The UNT chemistry department is 100 years old this year, and we are throwing a BIG party to celebrate. The Chemistry Centennial Celebration (CCC) coincides with Homecoming at UNT, so mark your calendar now to save the Oct. 15 date. To scope out the specifics of CCC, visit http://www.chem.unt.edu/centennial/.

Highlights of the day include a tour of the new Chemistry Building (if you get here early, you might get to tour old Master's Hall, which is now the new Life Sciences Complex B!), a poster session focusing on the Current Chemistry Research at UNT, and a special Centennial Seminar. The CCC dinner with CCC souvenirs and entertainment are all part of the packaged deal. The afternoon events on campus are free, while dinner reservations (deadline Sept. 24) are only $35 per person. Let us know as soon as possible by mailing your check to: Pamela Johns, Budgets Officer, Department of Chemistry-UNT, 1155 Union Circle, Box 305070, Denton, TX 76203. Questions can be directed to **Dr. Jim Marshall**, jimm@unt.edu.

QUANTUM CHEMISTRY RISING

SPRING SYMPOSIUM ON "PIONEERS OF QUANTUM CHEMISTRY"

Dr. E. Thomas Strom, UT-Arlington (tomstrom@juno.com) and Dr. Angela Wilson, UNT (awilson@unt.edu) are organizing a History of Chemistry Symposium titled "Pioneers of Quantum Chemistry." This symposium is also being co-sponsored by the ACS Divisions of Computers in Chemistry and Physical Chemistry. The symposium will take place at the ACS Spring, 2011, national meeting in Anaheim Mar. 27-31, probably on either Mar. 28 or 29. Plans are for 25 minute talks with five minutes for discussion.

The committed speakers and their tentative talks and/or subjects are: Roald Hoffmann, "Development of the Woodward-Hoffmann Rules;" Andrew Streitwieser on his classic book, "Molecular Orbital Theory for Organic Chemists;" Kate Holloway on "Michael Dewar;" Wes Borden on "H. C. Longuet-Higgins;" Bill Jensen, "The Free-Electron Model: From Otto Schmidt to John Platt;" and E. Thomas Strom on "George Wheland." The symposium is now open for contributed talks. To avoid potential duplicate talks, contributors

should submit their title/subject first to one of the organizers, but preferably to both. Abstracts are due on Oct. 29, which is a firm date. Since the current abstract system has been hard to use, contributors should not wait to the last minute before submitting their abstracts.

OCTOBER SW THEORETICAL CHEMISTRY CONFERENCE AT UNT

The 2010 SouthWest Theoretical Chemistry Conference (SWTCC) will be held Oct. 22-24. It is being hosted by the University of North Texas and the Center for Scientific Computing and Modeling. It will be held at the UNT Chemistry Department. For further information link to http://cascam.unt.edu/swtcc/.

SUCCESSFUL STONE SYMPOSIUM AT BAYLOR

The long, illustrious career of **Welch Professor F. Gordon A. Stone** was honored with a symposium at Baylor on May 27-28. This symposium featured a "Who's Who" of the most renowned inorganic chemists from both the US and abroad. Baylor's largest lecture hall was crowded with 300 faculty, staff, students, and visitors listening to the latest advances in inorganic chemistry.

Stone's retirement became effective as of Aug. 31. He is now Welch Professor Emeritus. His retirement will be spent in Waco, where he has lived for so many years, and he still has a number of papers to write up. *The Southwest Retort* congratulates Professor Stone on his long, productive career. We all are grateful to the Welch Foundation for its role in bringing so many fine chemists to the Southwest.

AT TCU, NOBELIST KROTO, WELCH PROFESSOR SIMANEK

Nobel Laureate Harry Kroto will be in Texas in October in connection with the celebration at Rice of the 25th anniversary of the fullerene discoveries. However, the Metroplex will have a chance to hear from this distinguished chemist. He will be giving a seminar on Thursday evening, Oct. 14, 7 p.m. at TCU on "Science and Society in the 21st Century."

TCU now has its new Welch Professor, **Dr. Eric E. Simanek**, formerly of Texas A&M University.

He works in the areas of polymer and materials chemistry with particular interests in dendrimers and drug delivery. He received his B.S. degree from the University of Illinois where he did research with Kenneth Rinehart, his Ph.D. from Harvard under George Whitesides, and had a postdoctoral appointment at Scripps with Chi-Huey Wong. He also has strong accomplishments in science education. He has demonstrated ability to translate the

excitement of research in chemistry, especially at the interface of biology and medicine, to education and outreach programs. *The Southwest Retort* welcomes Eric Simanek to the Metroplex.

METROPLEX CHEMISTS WIN ACS NATIONAL AWARDS

The increasing stature of D-FW Metroplex chemistry was highlighted with the announcement by ACS that two local chemists have won 2011 ACS national awards. **Professor Purnendu Dasgupta** of UT-Arlington is the winner of the ACS Award in Chromatography sponsored by Supelco. **Professor Weston T. Borden** of the University of North Texas is the winner of the James Flack Norris Award in Physical Organic Chemistry sponsored by the ACS Northeastern Section. Both recipients will be honored at the Awards Ceremony on Tuesday, Mar. 29, at the ACS Anaheim National Meeting.

DON'T FORGET THOSE LOCAL SECTION DUES!

It won't be long until you'll be receiving your 2011 dues statement from ACS. Among the various charges on your statement will be a listing for optional local section dues. Since it's optional, you will be tempted to forget about it. *Please don't!* Pay that small sum; don't cross it out. Those optional dues make a world of difference to the programs that your local section can offer. They are **vital** to your local section. You won't miss the money, but your local section surely would.

Around-the-Area

University of Arkansas

Chemistry faculty brought in grants corresponding to 25% of those given in the Fulbright College of Arts and Sciences at the U of A. 26% of the chemistry majors made the Fulbright College Dean's list for earning a 4.0 GPA during the semester. There were 19 new graduate students enrolled for the fall term.

Long-time department members **Lois Geren** and **Marilyn Davis** have retired. Graduate students **Sasa Miladinovic, Coy Batoy, Chris Mazzanti, Mike Rutherford,** and **Melissa Weston** have successfully defended their doctoral dissertations. Faculty Member **Charles L. Wilkins** was selected as a 2010 ACS Fellow (see a vignette on Wilkins elsewhere in this issue). **Julie Stenken** served on an NIH Study Section in Washington, D.C. in June. Faculty member **Colin Heyes** presented a poster at a Gordon Research Conference June 27-July 2 and a poster at the NIH, NCRR Symposium of Biomedical Research Excellence in Bethesda June 16-18. Also presenting posters at the latter conference were faculty member **Frank Millet** and graduate student **Chris**

Saunders. **Joshua Sakon** gave a talk at the 57th Toxin Symposium in Nagahama-shi, Japan July 14-16. **Peter Pulay** presented talks at the Harry King Symposium in Buffalo May 10-11 and at the Molecular Quantum Mechanics 2010 in Berkeley May 24-29. **Neil Allison** traveled to Sweden in June with the University Health Teams Abroad group. Also attending was chem major **Alyse Allison**. Grad student **Mack Clements** presented a poster at a Gordon Conference in June as did grad student **Tim Beng** in August. Posters were presented at the Aug. symposium in San Diego of the Protein Society by **Paul Adams**, grad students **Rebecca Kerr, Lindsay Rutherford, Ryan Thurman**, and undergrads **Lauren Hall, Rory Henderson, Ashley Martfeld**, and **Daniel Vo.** Also attending were **T. K. S. Kumar** and **Anna Daily**. **Matt McIntosh** presented a talk at a Gordon Conference in July, while **Derek Sears** attended the Lunar Science Forum at Moffett Field, CA, in July. **Wes Stites** participated in a study panel at the Army Science Board Summer Study meeting July 12.-22.

Undergraduate **Omar Salem** was selected as the 2010-2011 Fulbright Presidential Scholar. Attending the Boston ACS meeting were **Bob Gawley** as Chair-Elect of the Organic Division, **Luti Salisbury, Charles Wilkins**, and **Ingrid Fritsch** plus grad students **Christian Loeschel** and **Dave Clay.**

Heart o' Texas

Baylor University. Faculty members **Kevin G. Pinney** and **Mary Lynn Trawick** have received a $1.46 million, five-year NIH grant to design, create, and test several new potential cancer fighting compounds that may disrupt solid-cancer tumors and target remaining cancer cells after the tumor is treated. The work will be done in collaboration with the UT-Southwestern Medical Center in Dallas, which will be a subcontractor on the grant. Last spring **Dr. David Pennington** attended the meeting of the Council for Chemical Research in Atlanta. Dr. Pennington, **Mrs. Nancy Johnson** and four members of the Texas Beta Chapter of Alpha Epsilon Delta, **Sam Han, Martha Ayewah, Sunayana Chopra**, and **Ford Okoli** traveled to Tampa in March for the 2010 Biennial National Convention of the honor society. The Sept. 3 Colloquium speaker was **Dr. Laura Shirtcliff** of Oklahoma State on the topic "Modular Approach to Self-Assembly of Pi-Conjugated Organic Materials."

Wichita Falls-Duncan

Dr. Ann Nalley has been elected to the Oklahoma Educator's Hall of Fame. She will be installed in October in Oklahoma City. Section members attending the Boston ACS meeting include Ann, **Keith Vitense** of Cameron University, **Tom Dealy** of Halliburton. Chair-Elect **Jeremy Holtsclaw**, and **Richard Rickman**.

South Plains

Texas Tech University. Dr. Bill Poirier has received a $469,715 NSF grant to study "Massive Parallelization of Exact Quantum Dynamics

Calculations Computing (ro)Vibrational States for Real Molecular Applications." Initial calculations will be performed on the soon-to-be-completed TTU 1200-core Chemistry Computation Cluster. **Dr. Jonathan E. Thompson** has received a two year, $355,654 grant from NSF for the project "Development of a Near-UV Aerosol Albedometer."

Dr. Jorge A. Morales presented invited lectures in July at the University of Copenhagen and at a symposium in honor of Professor John R. Sabin in Sonderborg, Denmark. **Dr. Chris Bradley** attended the Organometallics Gordon Conference July 11-16. He presented a poster on cobalt complexes for use in hydrocarbon functionalization and, of the 100 researchers who presented posters, he was one of only six invited to give a talk on recent research efforts. **Dr. Dimitri Pappas** published an invited paper in a special issue of *Analytical and Bioanalytical Chemistry*, Grad students **Kathy Dial, Scott Hiemstra,** and **Prof. Jon Thompson** had a manuscript accepted for a special issue of *Analytical Chemistry*, which deals with "Atmospheric Analysis as Related to Climate Change." Welch Professor **Dr. Bill Hase** served on a DOE panel July 26-28.

D-FW

Bob Landolt Retires. Professor Robert G. Landolt of the Chemistry Department at Texas Wesleyan University retired at the end of the spring term. In recognition of his long, productive career, he was granted the title of Professor Emeritus. Bob Landolt has been in education for more than 41 years and has been a member of the Wesleyan faculty since 1981. During this time he received around ten research grants and published more than 28 scholarly works, many of them co-authored with undergraduate students. He served for one year as an ACS Congressional Fellow in the office of Rep. Jim Wright. He was also an early organizer of UCAIR, a searchable index of scholarly works shared among small colleges. He served the D-FW ACS Section as Chair in 1991. *The Southwest Retort* congratulates Bob Landolt for his contributions to chemistry and to the ACS, both on the local and national levels.

OCTOBER METROPLEX SEMINAR SCHEDULE

Seminars are occasionally postponed or cancelled. Check departmental websites or call the department before attending.

UT-Arlington, Sept. 24, Steven Patrie, UT-Southwestern, "Discovery and Application of PTM-Biomarkers with FT- & SAMDI-TOF Mass Spectroscopy." **Oct. 1**, Dennis Smith, UT-Dallas, "Semi-Fluorinated Polymers for Optical and Energy Conversion Applications." **Oct. 8**, Joseph Ready, UT-Southwestern, "Synthesis of Biologically Active Small Molecules." **Oct. 15**, Garegin Papoian, University of Maryland, "Mechano-Chemical Feedbacks Finely Regulate Actin Polymerization Processes *in Vivo*. **Oct. 22**,

Xiaolan Chen, Johnson and Johnson, "From Grad School to Pharma R&D and Beyond." **Oct. 29**, Peter Kroll, UT-Arlington, "Endeavors in Computational Chemistry of Materials." **Nov. 5**, Fred Regnier, Purdue, "Oxidative Induced Protein Oxidation as a Disease Signature." Seminars are normally at 2:30 p.m. in Rm. 114, Baker Chemical Research Bldg.

UT-Dallas. Sept. 24, Brad Pierce, UT-Arlington, "O_2-Activation and Spectroscopic Characterization of Mammalian Cysteine Dioxygenase." **Oct. 1**, Mohammad Omary, UNT, "Metal-Organic Nanomaterials for Energy-Saving and Biomedical Applications." **Oct. 7** (Note change of day), Chuanbin Mao, University of Oklahoma, "Hiring Proteins, Viruses and Microbes to Work on Bionanotechnology," 11 a.m., Location ECSS2.102. **Oct. 15**, Felix Nicholas Castellano, Bowling Green University, "Molecular Inorganic Photonics." **Oct. 21** (Note change of day), Steven Miller, University of Florida, "Next Generation Commodity Polymers: Petroleum vs. Biomass," Location, ECSS 2.102. **Oct. 22**, John Reynolds, University of Florida, TBA. **Oct. 29**, Jung-Mo Ahn, UTD, "Mimicking Alpha-Helices for Biomedical Research." **Nov. 5**, Steven Nielsen, UTD, TBA. Seminars are normally at 2 p.m. in Science Learning Center SLC 2.303. This new building is just north of Berkner Hall and connected to Berkner by a bridge. ECSS stands for Engineering and Computer Science Bldg. South.

UNT. Sept. 24, Jincheng Du, UNT, TBA. **Oct. 1**, Steve Cooke, UNT, "Advanced FT-Microwave Spectroscopy of Halogen-Containing Compounds." **Oct. 8,** Jill Kleister, UNT, "Thesis and Dissertation Writing Workshop." **Oct. 15**, Chemistry Centennial Celebration (*See article elsewhere in this magazine*.), Frank Carey, Wharton College, "The Power of Synergy: Students and Faculty Working Together for a Successful Chemistry Department." **Oct. 25** (*Note Change of Day.*), Richard Schrock, MIT, "MAP Catalysts for Selective Olefin Metathesis Reactions." **Oct. 29**, Dewey Holten, Washington University, "Directionality of Electron Transfer in the Photosynthetic Reaction Center." **Nov. 5**, Patrick Farmer, Baylor, "HNO as an O_2 Analog: The Coordination Chemistry of Nitrosyl Hydride with O_2 Binding Metalloproteins." Seminars are normally at 3:30 p.m. in Room 106, Chemistry Bldg.

SMU. Sept. 24, Bill Hase, Texas Tech, TBA. **Oct. 1**, Peter Wipf, University of Pittsburgh, "Total Synthesis of Natural Products. Combinational Chemistry." **Oct. 8**, Michael Crowder, Miami University, "Metallo-Enzymes." **Oct. 15**, Rasika Dias, UT-Arlington, "Design and Synthesis of Novel Ligands." **Oct. 22**. Steven Miller, University of Florida, TBA. **Oct. 29**, Mark McDonald, Drug Enforcement Administration, Dallas, TBA. Seminars are normally at 3 p.m. in Room 152, Fondren Science Bldg.

TCU. Sept. 28, Jessica Hollenbeck, Trinity University, "Designed Ankyrin Repeats as Scaffolds for Molecular Recognition."

*****Continued on Page 20*****

OCTOBER D-FW ACS MEETING
Tuesday, October 26, 2010
7:00 to 9:00 P.M.
Gordon Biersch Brewery Restaurant
8060 Park Lane, Suite 125, Dallas, TX 75231

"The ART of BREWING: ALES versus LAGERS"

Important note: Limited to the first 40 people who register.

Following the recent ACS webinar on the chemistry of beer, at the October meeting of the DFW Section we will take a first-hand look at brewing. Raymond Plasek, head brewer at Gordon Biersch Brewery Restaurant will discuss "Ales versus Lagers". Raymond is a native Texan with a passion for food and beer. He is a certified chef who retired his business in the spice industry to follow a passion for making hand-crafted malt beverages. He has been brewing professionally for 10 years and has made a name for himself in the brewing industry. He joined Gordon Biersch in 2009 and is a 'very happy camper'.

As preparation for this meeting, attendees are encouraged to listen to the recent ACS webinar, "Tapping into the Chemistry of Beer and Brewing", presented by Charles Bamforth, with the Department of Food Science and Technology at UC Davis: http://acswebinars.org/bamforth

Times and Location: 7 to 9 P.M., Tuesday, Oct 26 in the Marzen Room at Gordon Biersch Brewery Restaurant at the corner of Park Lane and North Central Expressway in Dallas.

Reservations/Dinner: Contact Patty Wisian-Neilson at pwisian@smu.edu or 214-768-2483 by 5:00 PM on Wednesday, October 20, 2010. Dinner price is $20. Cost-averaged menu choices are Gordon Biersch Cheeseburger, Cashew Chicken Salad, Tuscan Chicken Pasta, or Chicken Stir Fry to be ordered on arrival. Dinner will include tea, coffee, soft drink or GB root beer. Sadly, folks, real beer must be purchased individually at your own cost (ca. $3). Members are financially responsible for reservations made but not used and for their own beer. Remember only 40 people will fit into the room, so do not delay in reserving your spot.

How to Get There: GB is located in the Park Lane Shopping center on the southeast corner of Park Lane and North Central Expressway (diagonally opposite Dick's Sporting Goods)

From the north, heading south on N. Central Expressway US 75):

- Take exit **5B** toward **Park Ln/Northpark Blvd**
- Turn left at light at Northpark Blvd
- Take immediate left at light at N. Central Expressway Service Road.
- Take first right into parking lot

From the south, heading north on N. Central Expressway (US 75):

- Take exit **5B** toward **Northpark Blvd/Park Ln**
- Take first right after light at Northpark Blvd into parking lot

PERIODICAL

Sept. 30, Peter Wipf, "From the Rotavap to the Skin Patch." **Oct. 5**, Younan Xia, Washington University, TBA. **Oct. 14**, Harry Kroto, Florida State University, "Science and Society in the 21st Century." *(See article elsewhere in this magazine.)* **Oct. 19**, Klemens Rumpf and Petra Granitzer, University of Graz (Austria), TBA. Seminars are normally at 11 a.m. in Lecture Hall 3, Sid Richardson Science Bldg.

UT-Southwestern Biochemistry. Sept. 30, Ann Stock, University of Medicine and Dentistry, New Jersey, "Regulation of Response Regulators." **Oct. 7,** Mary Munson, University of Massachusetts, "The Exocyst Complex: Molecular Architecture and Function in Exocytosis." **Oct. 14**, Kenneth Prehoda, University of Oregon, "Evolution of a Phosphoprotein Recognition Domain by Loss of Allostery." **Oct. 21**, David A. Spiegel, Yale, "Small Molecules that Activate the Adaptive Immune Systems." **Oct. 28**, Peter Dorrestein, UC-San Diego, "Novel Mass Spectrometry Approaches for Microbial Natural Products." Seminars are normally at 12 noon in Biochemistry Lecture Hall L4.176.

UT-Southwestern Biological Chemistry. Sept. 21, Scott Snyder, Columbia, "Lessons in Chemoselectivity: Total Synthesis of Polyphenolic Natural Products." Seminars are normally at noon in Biochem L4.162.