



September 2012
Vol. 97, Issue 6

Central Texas ACS

Established 1917

Newsletter of the Central Texas Section of the American Chemical Society
www.CentralTexasACS.org

Thursday, October 11th
Social Hour Begins at 6:00 pm, Dinner begins at 6:30 pm

QwikSeal[®] Pre-Sealed Fasteners

Dr. Malcolm Prouty
Systems and Materials Research Corporation

County Line on the Hill

6500 W. Bee Cave. Rd
Austin, TX 78746

Dinner is \$20 for non-members/adults, \$17 for members/adults and \$12 for students

RSVP by October 10th using any of the following methods below:

This [RSVP link](#) is also in the email (accompanying newsletter)

www.centraltexasacs.org

Email James Lin @ JLin@atmi.com

Call or text (512) 417-5636 with full name, email, and number of guests

Dinner will be Country Style Three meat BBQ

***QwikSeal*[®] Pre-Sealed Fasteners**

Prior to installation, most aircraft fasteners must be coated with sealant to prevent corrosion and fuel-leak paths from forming. The currently qualified process involves a technician premixing a two-part sealant, applying the sealant to the fastener, installing the fastener, and removing excess sealant with a solvent wipe. This process is labor intensive, wasteful, and results in quality variations due to installer technique and sealant pot life. An approach to streamline the installation process must be developed, as hundreds of thousands of fasteners are utilized for a single aircraft. Systems and Materials Research Corporation (SMRC) is demonstrating and validating *QwikSeal*, their pre-sealed fastener technology, for use on military and commercial aircraft. *QwikSeal* consists of a fastener coated with a one-part moisture-curable sealant. Cure is prevented by a barrier coating that isolates the sealant from ambient moisture. Upon installation, the moisture barrier fractures allowing the sealant to cure. SMRC is currently optimizing process parameters on its prototype automated *QwikSeal* production machine.

Malcolm Prouty received his B.S. in Electrical Engineering in 2003 followed by his Ph.D. in Engineering with a concentration in nanotechnology in 2007 from Louisiana Tech University. During his time at Louisiana Tech University, Dr. Prouty was heavily involved in the university's newly formed entrepreneurship program out of which he formed two startup companies including Dott Com Computers and Better Paper Technologies. Upon graduation Dr. Prouty moved to Austin, TX where he gained employment with Systems and Materials Research Corporation (SMRC) as a Senior Research Engineer and began to participate in Central TX ACS local section activities. Dr. Prouty served as Chair of the local section in 2009, webmaster for the 2011 ACS Southwest Regional Meeting, as is currently the local section's historian. In 2011 Dr. Prouty was promoted to President and Director of Commercialization at SMRC.

Central Texas ACS: September 2012

Dear ACS members,

Thank you for coming to recent Section meeting. Our speaker, Dr. Zhu, presented the key differences between Chinese and conventional medicine. I hope you all had a good time and have a better understanding of the capabilities of both types of medicine. Our next Section meeting will have new date of 10/11/12 (Thursday) at County Line on the Hill. The speaker is Dr. Malcolm Prouty. Topic of speech is "QwikSeal® Pre-Sealed Fasteners" I hope you all come to enjoy the talk and BBQ.

The Section was recently awarded with 2012 ChemLuminary Award for "Outstanding New Local Section Younger Chemists Committee" during 244 National Meeting. Our Councilor, Dr. Diane Kneeland, received the Award in behalf of our Section. You may see the full video at this [link](#), which includes all 2012 ChemLuminary Award Winners.

Our Section is initiating a process to establish an electronic voting system. Hopefully we will soon be able to do so. All members would be able to exercise their voting rights via a few clicks from their computer.

Our Councilor, Jim Boggs, recently retired. We are very thankful for his services to our Section. While we are in search of a Section Councilor and possible an Alternative Councilor, Dr. Diane Kneeland – our Nomination Committee Chair, will be leading the nominating process for our Section. Any member interested can contact her via our website at centraltexasacs.org.

National Chemistry Week is coming very soon on 10/28/12. All volunteers should plan to go online for RSVP. Shifts may be limited due to spaces availability in the Austin Children's Museum.

Our November 13th Section meeting will be the Volunteer Appreciation meeting. During this meeting, we will also have a special topic of "Chemistry in the Sherlock Holmes Stories". I hope you all start planning this date in your calendar.

Again for those who want to get involved with Section activities, please contact any [officers](#) listed in www.centraltexasacs.org.

Regards, James Lin

"Secrets from the other side: What Recruiters Know that You Don't" – ACS webinar

Presented by the Central Texas ACS Local Section Younger Chemists Committee (LSYCC), UT ACS Student Chapter and Women in Chemistry

Tuesday, Oct. 2nd, 2012

Social hour 6:30pm, Webinar presentation 7 pm

Welch Building on UT Campus (Corner of 24th and Speedway)

Event is free, but please [RSVP by September, 28](#) <http://centraltexasacs.sites.acs.org/>

Interviewing, the last step to employment that we must master. But how? You've read the books, watched the videos, been groomed by mentors, but still don't feel confident. Join our speaker, Dennis Guthrie, in this special re-broadcast, as he gives tips on how to master your next interview. This webinar details how to prepare and interview for your first job out of school. **Snacks and light refreshments will be served!**

Interested in the Local Section Younger Chemist Committee (LSYCC)?

<http://centraltexasacs.sites.acs.org/youngerchemists.html> or contact [Sandra Loudwig secretary@centraltexasacs.org](mailto:Sandra.Loudwig@centraltexasacs.org)

National Chemistry Week 2012

The Central Texas section will celebrate it on Sunday, October 28, at the Children's Museum at 201 Colorado St. in downtown Austin. The topic for the event is

Nanotechnology: Smallest BIG Idea in Science. Our event will be part of the museum's Sunday Science series. The doors will be open from 12 noon to 5 PM.

We will have three shifts of volunteers, 11:30 to 1:30, 1:30-3:30, and 3:30-5:15. Please go to our web site (www.centraltexasacs.org) and follow the links to sign up. No previous training is necessary. Just bring your enthusiasm and chemistry knowledge with you. We are looking forward to matching last year's fantastic turn out of volunteers and participants.

For more information contact Dodie Wells, dodiewells4@hotmail.com.

Central Texas Councilor and Local Section Officers Elections

After 17 years as a Councilor for our section, Jim Boggs has announced that he is resigning. Thank you Jim, for your many contributions and long service! One of our nominees is Linette Watkins, currently an alternate councilor and long-time volunteer in our Section.

Elections for Chair-Elect, Secretary and Treasurer positions will be held during our Nov. 13th annual business meeting. Our current Treasurer, Betsy Shelton, is willing to continue serving in this position and Sandra Loudwig, our current Secretary, is willing to serve as a Chair-Elect. If you are interested in serving in any of the councilor or officer positions, or if you would like to nominate someone, please contact the nomination committee chair (dkneeland@austin.utexas.edu) by Monday, October 15th.

Central Texas ACS: September 2012

Councilor's Report, Fall 2012 by Linette Watkins and Diane Kneeland

Overview

The council meeting for the 244th ACS National Meeting in Philadelphia, PA took place on Wednesday, August 22nd. Councilors from the Central Texas Local Section attended the national meeting, participated in governance decisions and gathered information regarding several new and on-going programs of interest to Central Texas ACS members.

The Fall 2012 meeting drew over 13,000 attendees to the City of Brotherly Love and attendees enjoyed a wonderful meeting - the science was great, and the weather was pleasant. Of course, there was history everywhere and several events were held at the Chemical Heritage Foundation - a chemical history museum. The theme for the meeting was "**Materials for Health & Medicine**" and the plenary sessions drew hundreds of attendees. Members are encouraged to view these amazing talks and other technical sessions on line. Go to www.acs.org/meetings and click the ACS Presentations on Demand link.

Presidential Succession

The Presidential succession reported on their activities. ACS Immediate Past President Nancy Jackson gave her last report, reviewing her presidential year celebrating the International Year of Chemistry. Current President Bassam Shakhshiri reported on his efforts to improve public knowledge on climate science through the creation of the ACS Climate Science Toolkit. For more information on the ACS Climate Science Toolkit visit www.acs.org/climatescience. The ACS President-Elect for 2012, Miranda Wu, presented information on her task force on Vision 2025. This task force seeks to identify challenges and opportunities related to the global chemistry enterprise with respect to job growth, collaboration, education, and advocacy and provide recommendations to help members with jobs and to thrive in the global environment.

The candidates for the ACS President Elect for 2013 are Dr. Thomas J. Barton, Distinguished Professor at Iowa State University and Dr. Luis A. Echegoyen, Robert A. Welch Professor, University of Texas at El Paso. Members should have already received an email from ACS to opt into electronic voting for the election. Ballots (electronic or mailed) will be sent out in the coming weeks and you should receive yours by October 10th. Information on the candidates is available at the www.acs.org. From the ACS homepage, click on ACS President-Elect 2013.

Joint Board-Council Committee on Senior Chemists

The Council voted to establish a Joint Board-Council Committee on Senior Chemists whose mission is to enrich the educational, technical, and cultural lives of the ACS Membership by ministering to and employing the talents of senior ACS members by: sharing with ACS members of all ages a rich variety of personal experiences and expertise gained over many years of professional service; fostering interest and participation in the science of chemistry through community outreach, especially in grades K-12; acting as science advisors/ambassadors for the purpose of cultural exchange at home and abroad; providing senior ACS members with challenging, diverse, and enjoyable professional experiences that enable them to contribute to the cultural experiences of their communities; and recommending policies that address issues of interest to senior chemists. The committee is aimed primarily at members over 60 years of age. The Board of Directors must also vote on whether to establish the committee.

Committee on Economic and Professional Affairs (CEPA)

The Committee on Economic and Professional Affairs (CEPA) reported on unemployment for ACS Chemists. Diane Kneeland is a member of CEPA. The unemployment rate dropped from its all time high of 4.6% to 4.2%. More than 60% of ACS chemists surveyed reported that their organizations are understaffed, yet only 30% expect an increase in hiring over the next year. CEPA and the ACS are aggressively working to help ACS members seeking employment. Six new four-hour workshops, the ACS Career Pathways series, were launched in Philadelphia. CEPA trained more than 40 volunteer facilitators and these workshops are now available for regional meetings and local sections. Webinars, personalized career counseling, and resume reviews are available at www.acs.org/careers. Unemployed ACS members should take advantage of ACS due waivers and free registration at ACS meetings. ACS Career Fairs and virtual careers fairs are available at all ACS National Meetings and some regional meetings. At the Fall meeting, almost 2,500 job seekers applied for 500 available positions.

ACS Entrepreneurship Initiative

The ACS Entrepreneurship Initiative was launched in 2012. This initiative includes the Entrepreneurial Training Program and the Entrepreneurial Resource Center. The next application period for the Entrepreneurial Training Program will open October 1st. This educational program is designed to guide budding entrepreneurs and provides resources to members to support the formation of new chemical businesses. Visit www.acs.org/EI for more information.

(The conclusion of this Report will appear in the next newsletter. Stay Tuned!)

American Chemical Society
Central Texas Section
P.O. Box 9811
Austin, TX 78766

PRESORTED
FIRST-CLASS MAIL
US POSTAGE PAID
AUSTIN, TX
PERMIT NO. 1

Central Texas ACS: September 2012
2012 Executive Committee: Officers and Program Directors

Chair	Dr. James Lin	ATMI Inc.	Awards Chair	Jackie Padilla	AISD
Chair-Elect & Chemistry Olympiad	Dr. Don Wharry	St. Edward's University	Acting Young Chemist Chair	Dr. Sandra Loudwig	
Past-Chair	Dr. Ben Martin	Texas State University	Boy Scout Program	Dr. Barry Streusand	Applied Analytical, Inc.
Secretary	Dr. Sandra Loudwig		Webmaster & High School Coordinator	Dr. Neal Grice	Dept State Health Services
Treasurer & Girl Scout Program	Betsy Shelton	Applied Nanotech, Inc.	Volunteer Coordinator 2	Stephanie Taylor	University of Texas
Councilor 1 & Nominations Chair	Dr. Diane Kneeland	University of Texas	EHS Chair	Katherine Cross	University of Texas
Councilor 2	Prof. Jim Boggs	University of Texas	Historian Chair	Malcolm Prouty	Systems and Materials Research Corporation
Alt. Councilor 1 & Membership Chair	Dr. Linette Watkins	Texas State University	Women in Chemistry	Larisa Watson	University of Texas
Alt. Councilor 2	Dr. Denny Wagoner	AnalySys Inc.	Volunteer Coordinator	Tamara Tarbox	Cerilliant Corp.
National Chemistry Week	Dodie Wells	Retired	Newsletter Editor	Cotton Starr	Pharmaform
Public Relations Chair	Caleb Louis	ATMI Inc.			