



NEWSLETTER

2010 The year in review

By Aaron Sanders, Past Chair
The highlight of 2010 can be summed up in two words "Community Outreach". In 2009, through the efforts of several committed volunteers we greatly expanded our Community Outreach efforts which led to the Section earning an Outstanding Medium Small Section award. Our community outreach committee reached out to the local schools and pushed them to let us get involved. We also submitted and received an innovation grant that allowed us to greatly enhance our program, including purchasing Bassam Shakhshiri's chemical demonstration manuals and a number of science demonstration tools, such as the air bazooka, and slime kits. The upgrades added drama to the demonstrations, and helped provide a hands-on approach. The Outreach Committee's coup de grace was in expanding our National Chemistry Week cel-

Continued on page 2



April 4, 2011 at 6:30 – 8:30

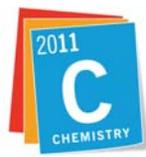
The Chemistry of Wine!

Please join us at the Civic Center for a seminar on the chemistry of wine. This event will include wine tasting, dinner from Café Annice and a souvenir ACS wine glass!

Space is limited to 25, so please RSVP

Contact Chanda Klinker, Program Chair & Chair Elect. Phone: 612-669-4150 E-mail: brazosportacs@gmail.com

\$10 ACS Members - \$15 Non-Members
(please have cash or check to pay at the door)
6:30 – 8:30 Lake Jackson Civic Center
333 Highway 332 East



International Year of CHEMISTRY 2011

by Carolyn Ribes, Councillor

The year 2011 has been designated by the United Nations as the International Year of Chemistry (IYC).

The global sponsors, IUPAC and UNESCO, have defined four main themes for the celebration:

- Increase the public appreciation and understanding of chemistry in meeting world needs.
- Encourage interest of young people in chemistry
- Generate enthusiasm for the creative future of chemistry
- Celebrate the role of women in chemistry and major historical events in chemistry, including the centenary of Mme. Curie's Nobel Prize

Continued on page 2

Bill Dellinger Wins National 2011 Technician of the Year Award
IYC kick-off event at our Local Section
Brazosport on the Web and on Facebook
New newsletter editor announced

Inside

J. Ernest Simpson - California State Polytechnic University.

The talk will include an overview of wine making and the chemical composition of grapes and wine, laboratory methods for analysis, sensory and organoleptic methods used for wine, the role of tannin and other phenolic compounds in wine, and some potential health aspects of wine. The event will start with a component tasting followed by a varietal analysis with a number of white, red and dessert wines.

IYC Kick-off Event at our Local Section

The Brazosport ACS section is hosting a kick-off event at the Sea Center Texas on Saturday, March 26 in Lake Jackson. The ACS has established quarterly themes for IYC, and the Sea Center serves as our backdrop for the first quarter theme "Water in our World". We will be hosting a Science Cafe and discussing the importance of water as a natural resource, the science of water treatment, and the steps that are taken to bring clean water to residents of Southern Brazoria County. The Brazosport ACS section invites you to the Sea Center Texas on March 26 from 12:00 PM to 4:00 PM to learn more or to participate. Visit the Brazosport ACS Facebook page for information on this event and for future quarterly events that celebrate the IYC.

Eric J. Klinker. Brazosport ACS, IYC Committee Chair

2010 The year in review *(continued from front page)*

celebration. This year's activities included a poster session with the local 5-8 grade students, a large scale science demonstration for 2-4 grade students, and a presentation highlighting this year's theme, "Behind the Scenes of Chemistry", in a presentation to the general public.

Although our outreach committee truly shined most brightly this year we had a number of other key events: Our National Lab Day was celebrated with 50 students in a demonstration session with the Boys and Girls Club of Brazoria County. Our ongoing collaboration with the Boy Scouts had a number of successful activities this year, also. The Akela's Trail Adult Leader training involved helping over 100 local scout leaders learn how to teach their scouts about science. The ACS helped out with the Twilight Camp Science Belt Loop where 200 scouts earned their science belt loops while using the scientific method to launch film canisters. Finally, the Brazosport Section was invited to provide hands-on science for the 100th anniversary of Boy Scouts, Sam Houston Area Council (SHAC) Jam celebration for 26,234 Scouts and families.

The membership was also active with our speakers for the year including, Bob Blackledge who spoke on the forensic story of Floyd Landis, and Don Hicks, who entertained the crowd at this year's annual awards banquet. The highlight of the year for our members was the science café entitled "Molecular Gastronomy", which was jointly held with the Greater Houston Section, and was held at the Culinary Institute in Houston. The crowd was treated to food tastings while learning about the chemistry of food. We also managed to get out a few newsletters and hold some council meetings. All in all it was a solid year for the Brazosport Section.

2011: International Year of Chemistry

(continued from front page)

Global partners Dow Chemical and EPCA and sponsors BASF, CEFIC, Evonik, L'Oreal, and Solvay will be presenting activities throughout the year. In the US, the ACS and National Academy of Sciences will be sponsoring contests, providing material for outreach activities, and creating web platforms for everyone to use. Several activities will be organized locally to share the wonders of chemistry with our members and our community. We welcome your suggestions on how to celebrate IYC in Brazoria County.

Global water event:

The global experiment was designed to engage students all over the world. The theme is water and there are four experiments. Students are asked to measure the pH and salinity of local water and upload the data onto the IUPAC website. There are also two experiments illustrating how to purify water. Most of the materials required for the experiments are easily obtained; kits will be available for purchase. Why not share these experiments with your favorite teacher or scout leader? Read more at: www.chemistry2011.org/about-iyf/news/get-wet-ready-go

Interesting Links:

Myriad videos and webpages contain educational and entertaining views of IYC. Check out these sites and let the newsletter editor know if you have any sites to share:

•365 chemistry for life: www.iyc2011.acs.org features a different

IYC continued

chemist, discovery, or chemical each day.

- The Future we create: 60 women in 60 minutes: www.futurewecreate.com
- A day without chemistry video: on the ACS Bytesize science page: <http://www.bytesizescience.com/>
- Chemistry: All About You: video produced by the European Petrochemical Association for high school students explores chemistry in everyday life: www.epca.be/public/content/iyc
- IUPAC website: read about activities all over the world: www.chemistry2011.org
- ACS website: read about activities in the US: www.acs.org or www.iyc2011.acs.org

2011 Section Goals

by Ling Zhang, Chair



The ACS Brazosport Local Section 2011 goal is to promote the value of chemistry in communities, improve local section visibility through outreach programs, provide local member's learning and networking opportunities, and celebrate the International Year of Chemistry.

Brazosport ACS is back online

By Nikki Brehm, Communications Chair

Most of us use online tools to find out information about events and to stay in touch with friends and family. Sites like Facebook, LinkedIn and organization websites are great ways to do this. This year we decided that we're getting back into the online game and beefing up our sites so that you have more access to up-to-date information regarding your local ACS chapter! We'll be posting information about upcoming IYC events, newsletters, Science Cafes and other ACS news so come check us out at our new local ACS site: <http://www.brazosport.sites.acs.org/>. You'll also find us on our Facebook page: <http://www.facebook.com/brazosport.acs>. Add us as a friend and you can start receiving updates on upcoming events and previews of newsletters before they are distributed!



2010 in review - account of events

By Aaron Sanders, Past Chair

Clute Intermediate School Science Club Demonstration
Renee, Kaoru and Bob shared the fun of science at their Science Club, after school on January 29 and February 5 and was very well attended.

Molecular Gastronomy Science Cafe

On Sept 25th, 2010, the Brazosport Local Section presented a unique science cafe themed molecular gastronomy at the Culinary Institute of LeNotre, Houston, TX. The invitations were extended to the Greater Houston Section to allow social networking. Chefs Kris and Christian gave a talk on the history of Molecular Gastronomy and shared a series of techniques for making molecular gastronomy dishes and the science behind them. The event ended with a tasting of 7-different bites made with different techniques. The event brought the physical and chemical science of life in focus.

National Chemistry Week Poster Contest

The contest was held to celebrate National Chemistry Week and involved the 4th through 8th grade students from local middle schools. Cash prizes of \$50, \$25, and \$10 were awarded to the 1st, 2nd, and 3rd place winners in two age categories. The winners went on to compete in the national poster competition. More than 30 posters were submitted and our volunteer group of 3 judges chose the winners. The winners were announced to the schools and recognized by being their posters displayed at the local mall. This poster session took a lot of effort by a small group of volunteers, led by Bob Zeigler. We plan to make this an annual event.

National Chemistry Week demos for 2nd-5th Graders

On October 29, our outreach program stepped into a new format with an NCW demo for >300 2nd through 5th graders at Danbury Elementary. This program was made possible by an innovation grant which allowed our outreach committee chair, Bob Zeigler, to revamp our chemistry demonstrations and bring in a more active and exciting program for students.

National Lab Day - Boys and Girls Club Demo

The Earth Day celebration was held with the Boys and Girls Club of Brazoria County. The events went very well and the team received a nice Thank You note and a framed collage from the Boys and Girls Club. We donated \$400 to the BGC to offset the cost of the meals. We had a great group of volunteers turn out for the event including the CEO of ProPlant Inc. Mike Anthony, who donated pens, highlighters, erasers, etc to be included in the gift bags for the kids and also made a donation to the Boys and Girls Club.

National Lab Day/Earth Day - Mall Demonstration

In May of 2010, Stephanie, Kaoru and Bob demonstrated chemistry, physics and materials science effects at the Bra-

Continued on page 4



Bill Dellinger wins 2011 ACS National Chemical Technician Award

By Marv Dettloff, Awards Chair

We are pleased to announce that the American Chemical Society has selected Bill Dellinger as winner of the 2011 National Chemical Technician Award. As described on the ACS website: "The National Chemical Technician Award honors excellence and professionalism among technicians, operators, analysts, and other applied chemical technology professionals." It is a very competitive award and nominees are judged on technical achievement, leadership, mentoring, communications, publications and other factors. The award consisting of \$1,000 and a plaque, will be presented at the ACS Spring National Meeting in Anaheim California.

Bill received a B.S. degree in Chemistry from Southwest Texas State University in 1989 and began his Dow career in Epoxy manufacturing. In 1999, he transferred to Epoxy R&D and has since been a member of Epoxy R&D, Coatings R&D and currently Epoxy Systems R&D. Bill is the author/co-author of over 50 Dow CRI reports, five external publications and conference papers, and one patent. He has made significant contributions to the successful qualification and commercialization of a number of products including D.E.R. 664E, D.E.R. 660MAK 80, D.E.R. 6508, Maxpox thixotropic systems, Rayco internal pipe coating and Qualex manhole spray system. Bill was previously the recipient of the Brazosport Technician of the year award. He is the third national award recipient from the Brazosport Section.

2010 in review - account of events

zoz Mall for National Lab Day. This year Bob Zeigler spent a lot of time upgrading the demonstrations from the previous years, and adding a splash of pizzazz to the show. Particularly effective were the slime and the smoke rings.

There was also a demonstration at the LJ Historical Museum (Halloween) with Bob, Stephanie, and George. Bob, Kaoru, and George also presented a multimedia demonstration fo chemical 'special effects' at the Brazos Mall.

Sam Houston Area Council (SHAC)JAM

In honor of the 100th anniversary of Boy Scouts of America the Sam Houston Area Council (SHAC) held a celebration for 26,234 Scouts, Scouters and families at Texas World Speedway October 8-10. Our Section was invited to provide hands-on science for the cub scout participants, all 5,000 of them on Oct 9. Greater Houston Section contributed with program planning and Texas A&M Section with student volunteers. Our emphasis was to teach fundamentals of the scientific method. We used color-changing cars, cellophane fish, hygroscopic sand-coated spoons, acid/base sensitive paper, and lemon batteries. To allow the boys to earn their science belt loop we also set up a "talk to the scientist" table where we made use of ACS National's Megamole interviews to show the breadth of different careers possible as a chemist. A key message delivered is the need for a scientifically literate public and that to become good citizens, the boys need science skills. We estimate that about 2,000 boys visited our booth.

Akela's Trail Adult Leader training

ACS teamed up with the local Boy Scout section of Brazoria county to provide training for the volunteer Cub Scout leaders. The training was on how to teach science to young students, to get the students past their "Fear of Science!". The training was split in two four sections: Tiger cub leader training (youngest kids), Wolf and Bear Leader training, and 2 sections for Webalo Leader Training (engineering and science). Each course was given twice. Over 100 leaders participated in the training. Topics include: scientific method, sound wave propagation, acid/base chemistry, physical properties. Some of the experiments that were taught included: differentiating types of milk, invisible ink, and transfer of energy via sound waves (drums).

Twilight Camp Science Belt Loop

An all day training session was held with the Boy Scouts of Brazoria County to help them earn their Science Belt Loops. The scouts were required to sign up a month in advance, and ~200 kids signed up. With the help of 6 volunteers Wanda Rauscher helped the scouts learn about the scientific method by preparing and launching film canister rockets. The students learned that through experimentation and observation you can learn what is really happening, and more important, by the end of the day the scouts had learned how to properly mix, agitate and launch their film canisters to heights of more than 12 feet. The kids had a blast learning about science and they earned their belt loops too!

Dear Carla & "Chemists Crew" ~
You are absolutely the most wonderful group of people EVER!! The experiments, presenters, and lessons were out of this world and the kids are still talking about how much fun they had with you guys! Thank you again!!
"Boys & Girls Club of BC Crew" ;)



Top: Thank you note sent from the Boys and Girls club for Carla's Earth day celebration.
Below: Poster session winning entries.

New Editor of the Brazosport Local Section Newsletter announced

By Al Ribes

This is my last issue as editor of your newsletter. It has been a real pleasure serving the chemistry community of Brazosport as editor for the last seven years.

Thanks to our society's technological marvels, I have been able to produce your newsletter from 5,000 miles away. You may not have known it, but the Local Section has projected itself 'East of Jersey' across the pool, onto the Netherlands. There has been and there is a bit of Texas over there.

I started the job giving the newsletter a new look. I redesigned the masthead a year later and at about that time I created the logo of the Local Section, still in use to this day.

The newsletter has chronicled the efforts which have translated into national recognition for the Local Section. The number of ChemLuminary awards received by the Section more than tripled from three earned during the period 2001-2004 to ten up to 2010, so many ChemLuminaries in fact that I felt they were too numerous to be shown as icons on the masthead as I had done early on.

To all the colleagues that have contributed to the Local Section and to the newsletter over the years, your commitment and enthusiasm have been energizing. Collaborating with you has been a really worth-while experience. Thank you.

It is time to let someone else experience in this role the joy of service to the Local Section. Your new editor is Birgit "Bea" Braun, who has in her past, organized and created newsletters. Please join me in welcoming Bea.





American Chemical Society
Brazosport Section
Newsletter

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www.facebook.com/brazosport.acs

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AMERICAN CHEMICAL SOCIETY, BRAZOSPORT SECTION
CALENDAR OF EVENTS

- March 26: 2011 IYC kick-off event at the Sea Center Texas
- April 4: The Chemistry of Wine - Lake Jackson Civic Center.