

December 2007 Newsletter

Bob Maleski (rmaleski@eastman.com) Editor



Check out <http://www.netsacs.org/> For a listing of Section Officers and Committee Chairs

Message from the 2007 Chair



It's hard to believe 2007 is coming to an end so soon. I have enjoyed serving as your NETSACS chair this year, and I look forward to helping our rising chair (Greg Love) and chair elect (Paula Moody) as they take the baton into 2008.

Looking back on 2007, NETSACS had a full calendar of activities and events. We started the year with a unique field trip to Oak Ridge National Labs, which brought together ACS members from the various Tennessee local sections. Our monthly dinner meeting topics ranged from military ordnance, to flavors, to Colonial chemistry, to water, to forensics. We attempted the first annual NETSACS Dessert Baking Contest at the November dinner meeting, where Bill and Judy Tindall's Lemon Meringue Pie was a tasty hit. Our 2008 chair has a nice slate of dinner meetings lined up for 2008, and I encourage you to come out to one next year to meet some of your fellow NETSACS members and enjoy the lecture.

Our awards meeting recognized another year of outstanding students and members. Juanelle Lambert was awarded the *Technician of the Year*. Our 2007 *Speaker of the Year*, Howard Young, is truly deserving of this distinguished member recognition. Dr. Young has had quite an adventure of a career and has also been a long standing supporter of NETSACS and its members. If you have not met Howard, I encourage you to introduce yourself to him at the next dinner meeting.

We continued our efforts supporting area science teachers in 2007. NETSACS coordinated the award of a summer chemistry teacher internship at Eastman. NETSACS and Eastman are already planning for 5 teacher intern positions for summer 2008. This is a great opportunity for area chemistry teachers to learn first hand industrial lab experiences to take back and share with their students. NETSACS also continues to facilitate the donation of surplus equipment, matching teachers with specific equipment and glassware to enable their

classroom lab exercises. Thank you to Bill Tindall and Paula Cahill for their exceptional commitment to these teacher programs.

NETSACS community outreach efforts really shone in 2007. In April, NETSACS partnered with the Girl Scouts and Hands On! Regional Museum for Earth Day. The Earth Day event focused on science and environmental activities, allowing the Scouts to earn related badges. Thank you to Virginia Mattie, John Sanders, Stephanie Clendennen, and the other Earth Day volunteers. Planning is already underway for the next Earth Day Event, April 20, 2008.

October brought us National Chemistry Week, a week of tremendous volunteerism and community activities across our local section region. Shawn Dougherty led another terrific year of the Eastman 4th Grader Days. Thanks to the committee leaders, Trudy Williams, Terri Carvagno, David Larkins, Renee Niziurski-Mann, Teresa Fulwiler, Liz Blakely, Daphne Eggers, Andy Vetter, and all the other leaders, organizers and volunteers who make this event possible. This year the 4th grader event enjoyed a special chemistry show by Dr. Francis Webster of Radford University and his college chemistry students. Another annual NCW favorite is the ETSU Student Affiliates Chemistry Show at Hand On! Regional Museum. The students had another successful year of working with Hands On! to bring chemistry to the public. Hands On! has been a good partner to NETSACS, and I encourage you to pay them a visit some time.

In September NETSACS was privileged to have a special visit by ACS President Dr. Catherine Hunt. Several of you came to Dr. Hunt's lecture or met with her at the NETSACS dinner or NETTAG lunch mixers. Tied into Dr. Hunt's visit was a promotion of women in the sciences with Dr. Judith Iriarte-Gross and her students in the WISE (Women in Science and Engineering) program. Thank you to Daphne Eggers, Mary Moore, Rhonda Strong Stewart Witzeman, Ron Lindsay, and others who helped to give the two days of activities a concerted impact.

Finally, I would like to thank the 2007 NETSACS executive committee for their time and effort, and for believing in the local section and its ability to do good for our community and members. Thanks to Greg Love (chair elect), Hamid Kasmai (past chair), Andy Vetter (treasurer), Warren Jackson (secretary), Kevin Edgar (councilor), George O'Neill (alternate councilor), and Members at Large, Mary Moore, Phil Cook and Dale Van Sickle.

I wish the best of luck to our 2008 officers, I wish all of our members a safe and happy Holiday, and I hope to see you at a NETSACS event or activity next year.

Debra Tindall
2007 NETSACS Chair

Message from the 2008 Chair

Hello, I hope everyone will be having Happy Holidays as we close out 2007. I have lots of ideas for the 2008 NETSACS program. You will have to pardon that some of my program is still tentative. Without a hospitality person, I will be setting up the venues for my program myself. I promise that we will not meet at a restaurant with a playland. I am trying to find places that fit our budget and can accommodate dinner and a presentation.

The year will be kicked off with dinner at the Eastman Lodge and a presentation by Dr. David Roane, Chair of Pharmaceutical Sciences. His presentation "ETSU's School of Pharmacy: College De Novo" will give an overview of the development of the College of Pharmacy. He will also introduce us the faculty and their backgrounds. The research interests of the faculty and Dr. Roane will also be presented. Then, we will learn how the College of Pharmacy is planned to grow and will fit with other program at ETSU.

Dr. Roane hails from Ruston, Louisiana. He has earned a B.A. in Journalism from Drake University, a B.S. in Zoology from Louisiana Tech, and a Ph.D. in Physiology from LSU's Health Sciences Center (New Orleans). He spent his post-doc at the University of Georgia in Nutritional Neuroscience. He came to ETSU in August of 2006 to join the College of Pharmacy.

In February, C. Alton Hassell, Baylor University, will present "Chemistry Appreciation 101: Chemistry for the Liberal Arts Student". The location has not yet been decided, though I have some ideas.

In March, we will have a joint meeting with AIChE at the Eastman Lodge. Steven Dutch, University of Wisconsin Green Bay, will present "Impact". He will give a geologist's view of meteor impacts on earth.

The Spring portion of the program will conclude with the Awards Banquet tentatively scheduled in April.

I hope to see at our meetings and events in the coming year and to meet each of you. Please, if you have suggestions for programming, perhaps someone you heard speak and want to invite to one of our meetings, please contact me at lovegr@etsu.edu. I have also penciled in a summer picnic and Christmas party for the year and want to know if you would be interested in attending (and possibly helping plan these events). Well, that is only a glimpse at what I hope to accomplish in the upcoming year. Please watch your mailboxes and the website for updates.

Greg Love

2008 Tentative Schedule of Meeting and Activities

January 23	572 nd	“ETSU's College of Pharmacy: College De Novo”, Dr. David S. Roane, School of Pharmacy, Joint Meeting with Sigma Xi, Eastman Lodge
February 19	573 rd	“Chemistry Appreciation 100: Chemistry for the Liberal Arts Student” C. Alton Hassell, Pratt's BBQ, Kingsport
March 14	574 th	“Impact!”, Steven I. Dutch, Joint Meeting with AIChE, Eastman Lodge
April 6-10		National ACS Meeting New Orleans, LA
April 16	575 th	Awards Banquet, ETSU Culp Center
May		
June		
July		
August 17-21		National ACS Meeting - Philadelphia, PA
September 15	576 th	“Really Simple Chemical Demonstrations” Otis Rothenberger & James Webb, <i>loc. TBD</i>
October 21 st	577 th	<i>History of Industry in Kingsport, Kenny Stallard,</i>
November 12-15		SERMACS Nashville, TN
November 19 th	578 th	<i>Gray Fossil Site, Jeanne Zavada</i>
December		<i>Christmas Party</i>

Chemical Crossword Puzzle

	<p>Across</p> <p>4. Society for our engineering friends</p> <p>6. A TN local section</p> <p>8. April chemistry event</p> <p>9. Recycle code 2</p> <p>10. Early morning molecule</p> <p>12. Name for 83</p> <p>13. Its atomic weight is 95.94 g/mol</p> <p>15. 2007 "Speaker of the Year"</p> <p>16. Pd, for one</p> <p>18. A dose of As?</p>	<p>Down</p> <p>1. 2008 NETSACS chair</p> <p>2. Jan. '08 speaker</p> <p>3. Chemist's seasoning</p> <p>5. Application for nylon fiber</p> <p>7. Vaporous H₂O</p> <p>10. It helps you make molecules</p> <p>11. Gerhard Ertl in 2007 for his studies of chem. processes on solid surfaces</p> <p>12. Chemist's sport?</p> <p>14. 2008 ACS president</p> <p>17. Fe + C alloy</p>
<p>Answers on the last page</p>		

National Chemistry Week 2007 – What a Celebration!

The Northeast Tennessee Section of the American Chemical Society (NETS-ACS) held its seventeenth annual “**Celebration of Chemistry for 4th Graders**” Event on October 23 and 24 as part of National Chemistry Week.



This year's theme, "The Many Faces of Chemistry", brought together 1,475 regional fourth-graders and professionals from 24 area businesses for two days of fun-filled demonstrations and exhibits highlighting the role of science and math in everyday life and in the workplace. "The Many Faces of Chemistry" were illustrated by the involvement of over 250 enthusiastic volunteers who worked together to coordinate and contribute to this award-winning and nationally-recognized event, which was held at the Eastman Toy F. Reid Employee Center. Volunteers included Eastman employees, area business representatives, college chemistry professors, high school chemistry teachers, Advanced Placement (AP) chemistry high school students and area college chemistry students.

A special highlight of this year's program was the "[Magic of Chemistry](#)" show carried out by Dr. Francis Webster of Radford University. He and six of his college chemistry students gave an exhilarating one-hour show covering all things chemical, including trends in the periodic table of the elements, the chemistry of combustion, the chemistry of color and the cool reaction chemistry that occurs if hydrogen peroxide is applied to sterilize a cut. Adults and students in attendance gained a better understanding and appreciation of the amazing world of science. Students unanimously and emphatically agreed that chemistry is NOT boring!

Other events during the day included opportunities for students to tour interactive booths covering science topics, such as density, pH, cross-linked polymers, shrink film polymers, wood chemistry, water repellency, mining, battery science, chemiluminescence, electricity, combustion, liquid nitrogen's cooling power, microscopy, fossils, spiders and snakes and fluorescence.

Check out the C&E News article highlighting National Chemistry Week celebrations across the country.

<http://pubs.acs.org/cen/acsnews/85/8551acsnews1.html>



Polymer properties are made interesting during the Northeast Tennessee Section's "Celebration of Chemistry for Fourth Graders"

A few of the fourth graders from Washington Elementary School had the following to say about the event:

I liked the very end of the magic show when he took the chemicals and took a tool and made them blow up in the air! – Emily

It was awesome when the chemist blew the cork out of the bottle! – Colby

I liked the part of the magic show when he put the water into the bucket, but then it didn't pour out. – Alex

My favorite part was the demonstration because Dr. Webster did experiments! :) – Jessica

I liked the three guys who told about chemiluminescence. – Madison

When the chemist used the electrical thing and made the fluorescent circle light up. – Trent

The chemistry magic show was spectacular, but I loved everything! – Bailey

National Chemistry Week, sponsored by the American Chemical Society, is the Section's annual outreach program designed to increase public awareness of the important contributions of chemistry. Participation in National Chemistry Week activities is widespread as many educators find ways to incorporate the annual celebration into their curriculum and outreach programs. The theme of this year's event, "The Many Faces of Chemistry", emphasized the many different people who make contributions to the chemical profession.

Author: Eastman Internal Communications

NETSACS Facilitates Balance Donation to Area Science Teacher

An analytical balance was donated to Jane Carter for use in her advanced chemistry classes at Castlewood High (Castlewood, VA). Jane is the chemistry/physics teacher there as well as department chair. Jane also has an arrangement with the local college so that some of her students can get college credit for the advanced chemistry class she teaches.

Some of the experiments she would like to do are limited by the ability of her equipment to accurately weigh materials. The balance will overcome this limitation. The balance was put to use the week after she received it to perform a kinetics experiment.

American Chemical Society Offers 2008 Summer Internship for Chemistry Teachers

The Northeast Tennessee Section of the American Chemical Society (NETSACS) and Eastman Education Initiatives are offering several Chemistry Teacher Summer Internships at Eastman Chemical Company in Kingsport, Tennessee, for high school chemistry teachers from Northeast Tennessee and Southwest Virginia. This program will allow teachers to gain industrial laboratory experience and will expand their understanding of science and math applications in industry. For additional information, contact Paula Cahill at PCahill@eastman.com

Focus On – ACS Member Services

- Have you moved?
- Do you have a new email account?
- Are you wondering what to do when a member passes away?
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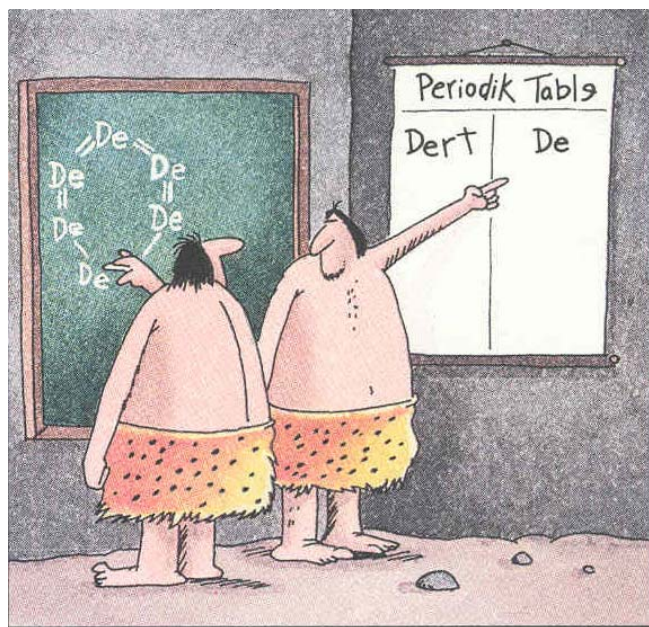
Questions regarding your membership number, status, subscriptions, or other personal information related to your ACS membership should be directed to the ACS Member Services Department. This might include a change of mailing address, moving to a different local section region, changing or adding an email address, deactivating the account of a member who has passed away, etc.

Contact ACS Member Services:

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Email: service@acs.org

History of Chemistry, Part 1



Early chemists describe the first dirt molecule.

From Gary Larson's "Far Side" Buy his book, you will like it!

Bob Maleski joined Tennessee Eastman shortly after this picture was taken. Recolorization by Ted Turner.

Crossword Answers

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