

NETCHEM NEWS

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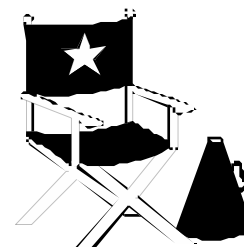
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From the Chair

- Winning the Award
- Finishing the Job
- The State of Success
- Knowing it is Possible
- Completing the Task
- Cleaning up the Messes
- Doing the Drudgery
- Sales
- More Meetings
- Documenting
- Continuing
- Marketing
- Organizing



- Communicating
- Starting
- Staffing
- Funding
- Meetings
- Planning
- Justification
- Ideas

- Work or Play... What do you enjoy most?
- What do you enjoy most about your job?
- What do you enjoy most about retirement?
- What do you enjoy most about your involvement with the American Chemical Society?
- What about being a volunteer?

NETS-ACS Officers

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To some of us play has become as complicated as our careers. To others the simplest relaxation is the fulfillment of our strongest desire. The swing on our back porch is the ideal.

Work is not always pretty or fun. Neither is being a volunteer. Volunteers with the Northeast Section of ACS have lots of fun; provide a valuable service to our community, our careers, our families, and professionalism to our employers. Some of us may believe we don't have FREE time. We have a mixture of priorities that fits our lifestyle and our values. There's that V word again. Yet often, we allow interruptions or unimportant "stuff" (by our very own predetermined values and priorities) to consume most of our time.

We have more resources and a greater history of success here in Northeastern Tennessee, Southwestern Virginia, Southeastern Kentucky, and Northwestern North Carolina than most sections. NETS-ACS continue to minister to children in our neighboring schools, to meet needs of our community, to mentor our technicians, to teach students, teachers, and the public about chemistry all around us.

We have many great opportunities this year to serve our community and our section. Please take a moment to consider nominating someone, **perhaps yourself**, who would be willing to serve in a position of leadership for our section. Please take time to consider how you could impact an NETS-ACS program or a student or a whole classroom in our community. We have so many who can do hard effective work and accomplish the tasks we need to get done, not to mention those of us who are good at having or attending committee meetings. Please don't let another day go by without letting someone know about your willingness to help them or call or email me. Thanks again for making this year such a great one so far as chair! I continue to enjoy

working with all our section's leaders. I especially want to thank those who have organized the meeting places and food sources. It is very hard to please everyone and you three do a great job serving us all in what is frequently a thankless job. Please take time to thank and encourage Debbie Tindall, Tammy Davidson, and James Leonard.

I hope most of you who chose not to attend the last meeting in Bristol realize what you missed. We had some great discussion after Dr. Ralph Blomster spoke on medicinal chemistry and the relationship of pharmaceutical organic structures and their plant sources. There were also several important announcements from Dr. Bill Tindall about the high school initiative he's working on, Dr. Debbie Tindall about the National Chemistry Week t-shirt sales (they look great this year!), and Dr. Ned Moore about some opportunities to provide ideas and serve in public relations and publicity. Please also note the nomination from attached for local section officers for 2002. We need your input, suggestions, work, and names.

Craig Lott, NETS-ACS Chair

Call for Nominations

Looking for a way to become involved in NETS-ACS? The Northeast Tennessee Section is seeking nominations for the officers for 2002. Offices up for election are:

Chair-elect

The Chair-elect functions in the Chair's place when necessary, and assists the Chair as necessary. The Chair-elect serves as Chair the following year. The Chair-elect acts as Program Chair to serve during the coming administration; The Chair-elect selects individual speakers and tour speakers a year in advance.

Treasurer

The Treasurer of the Northeast Tennessee

(Continued from page 2)

Section of the ACS is responsible for:

1. Keeping strict account of all finances. The Treasurer pays all bills and collects and deposits all income.
2. Submitting a proposed budget for their term of office to the Executive Committee for their approval.
3. Preparing quarterly financial reports and an annual report for their term of office.
4. Filing the annual financial report to the Executive Director of the national office.
5. Filing income tax forms.
6. Providing any necessary financial information needed to complete the annual report. The Secretary should be consulted in December to determine the financial information needed to complete the annual report.

Secretary

The duties of the office of Secretary of the Northeast Tennessee Section of the ACS are much the same as for that office in any organization. Records are transferred from the outgoing Secretary to the incoming one at the end of their term.

The Secretary is responsible for:

Filing the annual report to the national office. This is due the first of February and is one of the biggest single jobs of the office. The Secretary should notify officers and Committee Chair in December that their reports are due on December 15. The Secretary's duties are to collect reports from the Committee Chair and officers and assemble the reports into the proper format for the national office.

Keeping the Chair and/or other officers informed of situations of which the Secretary has been notified by outside sources.

Keeping the national office informed on matters of organization (i.e. election results) and other items which they will request from time to time. ACS Records Office (1-800-227-5558 or (202) 872-4454).

Executive Committee Member (1)

The election of three At-Large members to the Executive Committee is dictated by the Section By-Laws. Duties involve voting on appropriate subjects at scheduled or called Executive Committee meetings, and any other activities directed by the Chair. The Nominating Committee is responsible for selecting candidates for this office, and nomination by petition is also available. The major function of the Executive Committee is to conduct the normal business of the Section. This committee generally meets on the same nights on which regular Sectional meetings are held. The Chair presides at meetings of the Executive Committee.

We also have needs for volunteers to chair the public relations and hospitality committees.

Public Relations

The Publicity Committee Chair is responsible for transmitting publicity to area colleges, newspapers, radio and television stations, notices of all meetings and special activities of the Section.

Hospitality

Arrangements for the regular ACS dinner meetings, preparation and distribution of meeting notices, and collection of dinner reservations and receipts.

Consider volunteering your time and experience and become involved in your local section.

Send your nominations **by October 31, 2001** to:

Gerry Rhodes
P.O. Box 1972
Kingsport, TN 37662

Email: grho@eastman.com
Phone: 423-229-6446

Councilor's Corner
San Diego National
ACS Meeting
April 1-5, 2001



This was Dr. Pavlath's first meeting as ACS President, and it certainly had his imprint on it. There were numerous presidential events, motions were passed at Council that he strongly supported, and he kept a remarkably firm hand on the deliberations of the Council. He promised that the meeting would end early, and it did, nearly to the minute of when he predicted. The man can really work through an agenda. Let me summarize my activities at SD, including committee work and the outcomes at Council.

I continue this year to be an associate member of the Society Committee on Education (SOCED). The committee is now chaired by the immediate past ACS President, Daryle Busch, who is giving it excellent leadership. The new Office of Graduate Education is now under way, under the guidance of a White Paper on graduate education put out by a SOCED task force, and with Marjorie Caserio as a heavily involved consultant. That White Paper calls for some pretty strong reforms and improvements, including as just a couple of examples, better preparation for industrial careers (training in communications, statistics, safety, teamwork; internships in industry), improved mentorship, and of course more funding. This area continues to be of great interest to me and I'm trying to get as involved in SOCED's work on graduate education as possible.

In this context Glenn Crosby floated a very interesting new proposal at this meeting, for a major fundraising effort by ACS to endow a significant number of graduate fellowships for US students. These would be four-year fellowships, merit-based, requiring a 2 year teaching assistantship (paid by the university

except for \$5K/yr summer funds) and funded so as to provide \$25K per year for the last two years. This adds up to \$60K each for the 25 fellowships he wants to fund, requiring something on the order of a \$30M endowment. The idea is to make graduate education more attractive and available to a broader range of qualified American students. There is a lot of enthusiasm around this proposal.

There also continues to be significant activity around improving the supply and quality of high school chemistry students, by improving continuing education options open to current teachers, and by improving the training and re-training options for those who wish to enter the profession.

I continue to be a full member and subcommittee chair of the Committee on Chemical Safety. That committee is much more of a working group. For example, since the last meeting our subcommittee has done safety reviews of Wondernet, Kids in Chemistry kits, and sections of the CHEMCOM textbook. We have helped review and improve the safety guidelines for National Chemistry Week, and have reviewed safety publications or sections of publications by other ACS committees as well as other scientific and educational organizations. The committee also creates and publishes a wide range of safety books and pamphlets. These range from comprehensive guidelines for chemical safety in university laboratories, K-6 classrooms, and 7-12 classrooms, to detailed guidelines for doing safety inspection of chemical laboratories. Some past work by the committee, to demonstrate the safety of wearing (with appropriate additional protection from safety glasses) contact lenses in the chemical laboratory, has now been adopted by OSHA and will find its way into their regulations. And publication and publication update work continues apace.

As mentioned earlier, the Council meeting was active and efficiently run. The increase in

size of standing committees was approved with minimal discussion, since this will allow more councilors to serve on committees and no longer entails any appearance of conflict of interest for Dr. Pavlath (who will not now be appointing any of these new committee members). There is lots of discussion ongoing about equity of funding and representation between local sections and ACS technical divisions. Council membership is 80% local section reps, and 20% division reps. The relative amounts of dues allocated to the two groups (which of course have lots of overlap) follow similar proportions. There is a move afoot to change the by-laws and make funding and representation more "equitable" between local sections and divisions. Meanwhile as a stopgap measure Dr. Pavlath and the Board are making a pot of money available to divisions, via a yet-to-be-defined process, to help them with specific needs while all this is being shaken out (by-law changes are difficult and at best take a long time; and this one will be quite controversial. And you already heard where the Council voters come from). I am a bit torn on this one, personally, being quite active in both my division and my section. On the one hand, as program chair for CELL I see first hand the inadequate amounts that ACS makes available to divisions to support programming; this puts quite a strain on divisions whose programming is the heart of ACS national meetings. On the other hand, I know the good work including the excellent educational outreach work that local sections like ours do. And, frankly, I'm appalled at the arrogance of some (by no means all) of those involved heavily in division activities, who sneer at local section activities. It promises to be a lively debate over the next several meetings; I'd be happy to hear your views on the subject and carry them back to Council.

Finally, Council elected two candidates for President-elect next year of whom we can be very proud. Based on what I heard either

would make an outstanding ACS President. One candidate is William Carroll, who is a VP at Occidental Chemical in Texas, and one of the best communicators I've ever heard. He has less ACS governance experience than most past presidents have had, but certainly would make an effective spokesperson for the profession. The other candidate is Elsa Reichmanis, of Bell Laboratories. She is perhaps one notch below Carroll as a public speaker, but is still very good. In addition she is one of the most intelligent, clearest thinking people you will ever meet. She has considerably more ACS experience, has very strong scientific accomplishments, and overall is also an equally outstanding candidate. It will be a tough choice between them, but either way we can't lose.

Tidbits from around the section....

The Emory & Henry College Student Affiliate received an honorable mention for their 2000-2001 activities.

A local scientist, Janice Kasten, recently completed a book, *Survival of a Catholic Schoolgirl*. More information about her novel is available from <http://members.aol.com/jhkast/index.htm>



NETS-ACS Chair Craig Lott (right) congratulating Andrew Morrell of King College at the Annual Awards Banquet.
Photo by Mark Pollock

Eleventh Annual "Celebration of Chemistry for Fourth Graders" A Call for Volunteers!

As part of National Chemistry Week, the Northeast Tennessee Section of the American Chemical Society is once again sponsoring a "Celebration of Chemistry for Fourth Graders". Over 1300 fourth graders are expected to crowd into the Employee Center on Wednesday and Thursday, November 7th and 8th to see and participate in a number of chemistry demonstrations. Some of these demonstrations will offer a hands-on experience in the wonders of science.

Many helpers are needed! For a very rewarding experience, please call or email Marti Harrison, 224-0378, to volunteer as an escort for a small group of eager students, martih@eastman.com, or Crystal Kendrick at 224-7285 to help with a demonstration team, crystalk@eastman.com.

To help coordinate the movement of over 1300 fourth graders from thirty schools in two days, check with Shawn Dougherty at 229-5973, shawnm@eastman.com.

If you would like to help sell and deliver tee shirts call Debra Tindall at 229-4821, dtindall@eastman.com. If you are interesting in setting up booths and work with our Industrial Sponsors, call Matthew Wood 229-1912, mattheww@eastman.com

Anyone who would like to help coordinate visits by the local press or TV crews, please check with Ned Moore at 323-4095, nedmoore@chartertn.net. Any retirees interested in a most satisfying day should check with Ned as well.

Local Section Researchers Receive Award for Developing novel Process for Producing High-volume Chemical

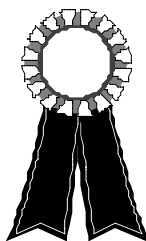
Chemists Shawn Marie Dougherty, Ph.D., and Sharon DeBord of Eastman Chemical Company in Kingsport, Tenn., will be honored September 24 by the world's largest scientific society for developing a novel, cost-effective process for producing a chemical used as a photographic stabilizer. They will receive one of four 2001 Industrial Innovation Awards at the American Chemical Society's Southeast regional meeting in Savannah, Ga.

Dougherty and DeBord are "fine innovators, chemists and community volunteers," said Paul Worsham, senior development associate at Eastman Chemical Company.

The chemists have improved the process for producing the chemical di-*t*-octylhydroquinone (DOH) and similar compounds by using two catalysts - a substance that increases the rate of a reaction without being consumed - instead of just one. The new process gives good, high-quality yields over short reaction times and only requires one solvent, which is then recovered and recycled.

DOH and its derivatives are useful as antioxidants and stabilizers in fats, oils, and petroleum-based products, and as industrial intermediates for the production of surface-active agents, coating materials and plastics. Currently, the greatest demand for DOH is as a photographic stabilizer.

The American Chemical Society's Industrial Innovation Awards recognize individuals and teams whose discoveries and inventions contribute to the commercial success of their companies and enhance our quality of life.



2001 Awards and Awardees

Speaker of the Year
Dr. Joseph Zoeller
Eastman Chemical Company

NETS-ACS Outstanding Chemistry Senior Awards

Amanda Sizemore
University of Virginia's College at Wise

Shaena Blevins
Emory and Henry College

Barbara Holbrook
Virginia Highlands Community College

Larry Lingerfelt
Northeast State Technical Community College

Andrew Morrell
King College

Chikaodili Umeweni
East Tennessee State University

National Chemistry Olympiad Finalists

Listed By Student, School
(Teacher)

Joey Adkins, Sullivan South High School
(Gerri St. Clair)

Daniel Lentz, Sullivan South High School
(Gerri St. Clair)

Justin Vogt, University High School
(Wendy Shaver)

Wes Dulaney, Virginia High School
(Myra Orr)

Andy Hicks, Dobyns-Bennett High School
(Nancy Bovender)

Mary Silver, Dobyns-Bennett High School
(Nancy Bovender)

Chris Clark, Science Hill High School
(Paula Moody)

Aaron West, Science Hill High School
(Paula Moody)

50-Year ACS Member Awards

J. Powell Hawk

Special Thanks

To the Merck Publishing Group, Merck & Company, Inc., for sponsoring the NETS-ACS Outstanding Chemistry Senior Awards. Since 1996, the Merck Publishing Group has provided complimentary copies of the Merck Index to each outstanding chemistry senior. Merck also imprints each student's name in gold on the cover.

To our Awards Chair, Mark Pollock and to our Chemistry Olympiad Chair, Tammy Davidson.

And to our meeting sponsor
Eastman Chemical Company
Chemicals Technology Group



**Surf the Northeast Tennessee
Section of the ACS website!!**

<http://membership.acs.org/N/NETENN/>

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