

# theCHEMICALbulletin

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OCTOBER • 2003

## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

### JOINT MEETING OF NORTHWESTERN UNIVERSITY

### DEPARTMENT OF CHEMISTRY AND THE CHICAGO SECTION ACS

### Basolo Medal Award Lecture, Dinner and Presentation

**FRIDAY, OCTOBER 24, 2003**

#### **BASOLO MEDAL LECTURE**

##### **LOCATION:**

Northwestern University  
Technological Institute  
2145 Sheridan Road  
Evanston, IL  
Lecture Room 3

##### **DIRECTIONS TO THE TECH INSTITUTE:**

From the city: Take Lake Shore Drive North to Sheridan Road into Evanston. Continue on Sheridan Road to the Tech Institute. From the west: take I-88 east to 294 north to Dempster east. Proceed east on Dempster into Evanston. Turn left onto Chicago Ave. and proceed to Sheridan Road. Take Sheridan Road north to the Tech Institute. The Technological Institute is at the intersection of Sheridan Road and Noyes Street in Evanston.

To those attending the Basolo Medal lecture, parking after 4:00 p.m. is available in the lot across from the Technological Institute at the corner of Noyes Street and Sheridan Road. Parking is also available on the side streets just west of this lot — however, observe the posted signs. Car-pooling is always encouraged.

Lecture room 3 is on the first floor of the Technological Institute and is most easily reached by entering through the main doors facing Sheridan Road. The lecture room is clearly marked and there will be signs at the entrance to guide you to the room.

#### **Basolo Medal**

**Lecture: 4:30 P.M. — 5:45 P.M.**

The Medalist Lecture is open to the public and admission is free to all those wishing to attend.



**Professor Daryle H. Busch, Roy A. Roberts Distinguished Professor of Chemistry, The University of Kansas, Lawrence, KS**

#### **Title: Ventures in the Design of Homogeneous Oxidation Catalyst Systems**

**Abstract:** The molecular design of oxidation catalysts for application under severe conditions proceeds toward multiple goals relating to catalyst efficacy, affordability, and, because of environmental considerations, acceptability. Our focus is on efficacy for here the considerations are essentially all chemical. They include catalyst activity-the

catalyst must operate at an energy level adequate to accomplish the desired oxidation process; catalyst selectivity—an exciting challenge is to design catalysts that will partially oxidize preferred substrates, yielding preferred products, and durability—catalysts must not be destroyed by the severe reaction environment during the reaction time.

The focus in America on green chemistry leads those involved in such molecular design to reduce or eliminate hazardous substances and waste in their new processes. Major consideration is therefore given to performing oxidations with the environmentally most friendly terminal oxidants, which we deem to be O<sub>2</sub> and H<sub>2</sub>O<sub>2</sub>, and solvents, in this case water and dense phases of CO<sub>2</sub>. Two programs will be described.

The first mission is to design a bleach enhancer for the laundry industry. This seemingly pedestrian venture requires a selective catalyst that will use O<sub>2</sub> or H<sub>2</sub>O<sub>2</sub> in hot aqueous media above pH 10 to oxidize stains from surfaces without destroying the dyes or pigments on those surfaces. The two greatest challenges are oxidative selectivity and catalyst durability, and the manner in which these have

*(continued on page 2)*

#### **NOTICE TO ILLINOIS TEACHERS**

The Chicago Section-ACS is an ISBE provider for professional development units for Illinois teachers. Teachers who register for the October meeting will have the opportunity to earn up to 5 CPDU's.

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been met is described, along with the principles that are involved.

The second mission explores the broad area of homogeneous catalytic oxidations in dense phases of CO<sub>2</sub> as solvent media, again with O<sub>2</sub> and H<sub>2</sub>O<sub>2</sub> as terminal oxidants. In addition to selectivity and catalyst durability, solubility and reactivity are challenges in these new media. Exciting advances have been made by making use of binary and ternary CO<sub>2</sub> phases that display a synergism due to the mixed solvents. Potential broad impacts of these and similar studies will be discussed.

**Biography:** Daryle H. Busch is the Roy A. Roberts Distinguished Professor of Chemistry at the University of Kansas, a position he has occupied since August of 1988. Previously he was a faculty member at The Ohio State University where he rose through the ranks from Assistant Professor (1954) to Presidential Professor (1987). His research in basic transition metal coordination chemistry fathered modern macrocyclic ligand chemistry and created the molecular template effect. He was among the founders of the subject of ligand reactions and an early researcher and proponent of bioinorganic chemistry. He first described the phenomenon called preorganization in 1970. His research is presently focused on green homogeneous catalysis, bioinorganic chemistry, and orderly molecular entanglements, a part of supramolecular and nanochemistry.

Throughout his research career Dr. Busch has worked closely with industry and holds 11 patents joint with five major industrial companies, and 2 universities. He received a B.A. from Southern Illinois University in 1951 and M.S. and Ph.D. degrees from the University of Illinois in 1952 and 1954.

Among the recognitions of his research are the following: The ACS Award for Distinguished Service in Inorganic Chemistry (1976), the ACS Award for Research in Inorganic Chemistry (1963), the John C. Bailar Medal of his alma mater, the University of Illinois (1978), the Dwyer Medal of the Royal Society of N.S.Wales, Australia (1978), and the Izatt-Christenson International Award for Macrocyclic Chemistry (1994).

Dr. Busch has contributed to all aspects of university education, having taught thousands of undergraduates, and guided some 200 Ph.D. and post-doc researchers. In addition to the pre-dominant research articles in his approximately 400 publications, Dr. Busch has written three textbooks, and numerous book chapters, articles, and

reviews. His teaching has been recognized by the University of Kansas' Louis Byrd Graduate Educator Award (1996) and an Ohio State University Alumni Teaching Award (1980).

His service to the ACS includes the Chairs of the Local Sections in Columbus, Ohio, and the University of Kansas, General Chair of the 3rd Central Regional Meeting, Chair of the Division of Inorganic Chemistry, and of its Bioinorganic Subdivision, Advisory Boards of the Office of Graduate Education and the Green Chemistry Institute and various committee assignments, including chairing the Society Committee on Education. He was Chair of the Chemistry Section of the American Association for the Advancement of Science and served the International Union for Pure and Applied Chemistry as Chair of the Commission on Inorganic Nomenclature and as Secretary of the Inorganic Chemistry Division Committee. He served in the Presidential Succession and on the Board of Directors of the American Chemical Society, and was President of the ACS in 2000.

Dr. Busch remains active in teaching, research and institutional development.

#### DINNER LOCATION:

Kendall College Culinary Institute  
2408 Orrington Avenue  
Evanston, IL  
The Dining Room  
847-866-1300

#### DIRECTIONS TO KENDALL COLLEGE:

Kendall College is located just a short walk (about 3 blocks) from the Tech Institute. If you are not attending the lecture and, instead, driving directly to Kendall College Culinary School, the following are directions from the Edens Expressway. Take the Edens to the Old Orchard Road exit. Proceed straight east to Green Bay Road and turn north two blocks to Central Street. Turn right onto Central Street and go two streets beyond Ridge Road to Orrington Avenue. Turn south onto Orrington Avenue 1.5 blocks. The culinary school has limited parking in the lot adjacent to the dining room. Parking is also available on the neighborhood side streets. Observe the posted signs.

#### JOB CLUB will meet at Kendall College at 5 pm. (See page 5)

**Reception: 6:00 P.M. — 7:00 P.M.**  
Complementary wine, soft drinks, and hors d'oeuvres served butler style. Hors d'oeuvres selection: Salmon Canapés (Scottish salmon with chive spread and caviar), Lamb Tenderloin with mint yogurt and couscous.

#### Dinner:

**7:00 P.M.**

Kendall College is the site of the premier culinary school in the Midwest, training chefs to work in the finest and most expensive restaurants. The first course will be Pumpkin Soup (roasted pumpkin with allspice served with vanilla bean cream). The main course is a choice of either Chicken breast stuffed with Brie cheese and sun-dried tomatoes served with lemon tarragon beurre blanc sauce with asparagus and a mushroom flan; Grilled Salmon filet served with a white wine lemon dill butter and caper sauce, rice pilaf with sun-dried tomatoes and chives, fresh asparagus on the side; or, Grilled vegetables Wellington with eggplant, zucchini, yellow squash, Portobello mushroom, red peppers, ricotta/asiago cheese filling and presented in a tomato basil sauce; an assortment of breads with butter, and beverage. The Dessert will be Chocolate Obsession Cake with a warm chocolate filling, crème anglaise, raspberry sauce and fruit garnish. Wine will be served throughout the evening.

Dinner reservations are required and should be received in the Section Office via **phone** (847-647-8405), **fax** (847-647-8364), **website** (<http://membership.acs.org/C/Chicago>), or **email** to [chicagoacs@ameritech.net](mailto:chicagoacs@ameritech.net). Because of the special nature of this program and its location, we are asking that you make your reservations earlier than usual and, if possible, by Friday, October 17.

The dinner cost is \$40.00. The cost to

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## "CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column. They hope that it will reach young children and help increase science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary school teachers. It is hoped that teachers will try to incorporate some of the projects in this column into their lesson plans.

### JELL-O: Chemistry in a Box

Kids, the ingredients list on a box of Jell-O tells us that it is sweetened, flavored, and colored gelatin (take a look yourself). A box of strawberry Jell-O has sugar, gelatin, adipic acid (for tartness), artificial flavor, disodium phosphate and sodium citrate (to control acidity), fumaric acid (for tartness), and the dye red 40. Most of us like Jell-O, of course. But we bet that you will be quite surprised to learn that gelatin is essentially processed collagen, which is a structural protein in the connective tissue, skin, and bones of animals. Collagen also makes up about one-third of all the protein in the human body. Collagen is composed of the molecules glycine, proline, hydroxyproline, and other amino acids. Jell-O itself has little nutritional value apart from energy (80 calories per serving). Gelatin by itself is an incomplete nutritional protein because it lacks tryptophan, an essential amino acid.

Structurally, collagen is three polypeptide chains wound together into a helix, like three strands of spaghetti twisted together. When collagen is heated in water, the triple helix unwinds and the chains separate, becoming random coils that dissolve in water: this is gelatin. As the gelatin cools, the molecules try to regain the original helical structure and eventually bond together as they lose energy.

The way that gelatin molecules bond can trap large amounts of liquid, resulting in a semi-solid "colloid". All colloids have a disperse phase and a continuous phase; that is, one substance is dispersed throughout another substance. In Jell-O, the dispersed phase is the solid gelatin and the continuous phase is water. Gelatin can absorb a tremendous amount of water at up to 10 times its weight. Go ahead and make a box of Jell-O, following the package directions with an adult partner, and think about the chemistry going on with the molecules there. Here is some trivia about Jell-O to amuse your family and friends:

- Gelatin is also in treats such as marshmallows and gummy candies. In the pharmaceutical industry, gelatin is used to make the outer shells for hard and soft capsules. A brand-new application is in the paint ball industry, which uses gelatin to make paint balls.

- As immigrants passed through Ellis Island, they were often served a bowl of Jell-O as a "Welcome to America" treat.

- When hooked up to an electroencephalograph machine (EEG), an instrument that records the electrical activity of the brain, Jell-O demonstrates movement that is virtually identical to the brain waves of a healthy adult.

- Fresh or frozen pineapple contains an enzyme that prevents Jell-O from setting; canned pineapple can be used because the canning process eliminates the enzyme.

Submitted by DR. K. A. CARRADO.

**References:** C. Marasco, Chemical & Engineering News, 5-19-03, "What's That Stuff?"; [http://web.kraftfoods.com/jello/main.aspx?s=&m=content\\_main](http://web.kraftfoods.com/jello/main.aspx?s=&m=content_main) (there is a fun kids page here as well); "Jell-O: A Biography" by Carolyn Wyman (Harcourt, 2001); [www.gelatin-gmia.com](http://www.gelatin-gmia.com).

All past "ChemShorts": <http://member.ship.acs.org/C/Chicago/ChmShort/kiindex.html>

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## CHAIR'S LETTER

### Mark Your Calendars!

We have several important activities coming up later this month. The first item to note is the deadline for receipt of ballots in the Section office. If you have not yet made your selections and mailed your ballot, please do so as soon as possible. Biographical material was sent out with the ballots to assist you in your decisions. All ballots must be received no later than **noon, October 24<sup>th</sup>**. Any ballots received after that time will not be counted. Results of the election will be announced that evening at the Section dinner meeting.

The Basolo Award address will be given at **4:30pm** on October 24<sup>th</sup> at Northwestern University by Daryle Busch, a former ACS president. Please plan to join us for the address and dinner afterwards. Details are on the front page of the Bulletin.

Chemistry Day 2003 will take place on Saturday, October 25<sup>th</sup> at the University of Illinois Chicago campus. Activities start at 9am and run until 3pm in the Science and Engineering South building at 845 W. Taylor. Please see the accompanying article for details and plan to join us for the festivities.

See you at a meeting!  
SUSAN SHIH

## HAVE YOU MAILED YOUR BALLOT?

Just a reminder that ballots are due in the Section office no later than noon, October 24<sup>th</sup>. They were mailed out in early September, the election time selected to coordinate with our new calendar year.

## FREE T-SHIRTS

The Hospitality Committee raffles one T-shirt at each monthly dinner meeting. The shirt has Chicago spelled out using the periodic table. So come to a monthly meeting and maybe you'll win one!

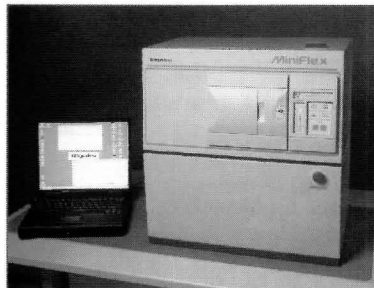
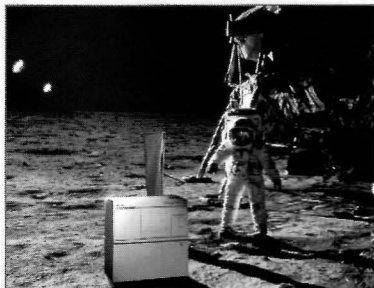
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## 35<sup>TH</sup> INTERNATIONAL CHEMISTRY OLYMPIAD COMPETITION

The U.S. Team earned three bronze medals and one silver at the 35th International Chemistry Olympiad held in Athens, Greece, July 5-14, 2003. The International Chemistry Olympiad is a competition amongst the brightest chemistry students in the world. They compete in a five-hour laboratory practical and a five-hour written theoretical examination. In addition to the competition, the students and mentors experience the culture of the host country by attending planned educational and social events.

Each nation brings four of their most talented students. Our students in the United States compete on three separate levels of competition before going on to the International Chemistry Olympiad. First, nominated students take the Local Section Exam. The top performing students from the Local Exam qualify to take the National Chemistry Olympiad Exam (USNCO). Then twenty students from the USNCO Exam qualify to attend the USNCO study camp at the United States Air Force Academy. The study camp trains students in inorganic, organic, physical, analytical, and biochemistry.

We are proud to announce that the Chicago Section had two qualifying students: Ben Kaduk (Naperville North High School) and Caleb Ng (Libertyville High School). After two weeks at the study camp four students are selected to attend the International Chemistry Olympiad.

Ben Kaduk, a senior from Naperville North High School, was selected to attend the International Chemistry Olympiad and earned a bronze medal (pictured above - far right). Ben is an exceptional student who has worked many hours outside of school to prepare for this competition. Ben will attend the University of Illinois and major in Chemistry. Congratulations to Ben Kaduk!

The 36<sup>th</sup> International Chemistry Olympiad will be held in Kiel, Germany from July 18 — July 27, 2004. Any interested students should contact their high school chemistry teacher or the ACS Chicago Section.

AMI LEFEVRE  
ACS HIGH SCHOOL EDUCATION  
COMMITTEE

**The Chicago Section's  
e-mail address  
is  
chicagoacs@ameritech.net**



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students and unemployed members is \$20.00. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

This is the fourth year we have had the Basolo Medal dinner and presentation at Kendall College. All those attending can look forward to a wonderful evening and a truly fine dining experience.

**General Meeting: 8:00 P.M.**  
Presentation of the Basolo Medal and remarks: Susan Shih, Chair, Chicago Section American Chemical Society; Michael R. Wasielewski, Chairman, Chemistry Dept., Northwestern University; **Professor Daryle H. Busch, University of Kansas, 2003 Basolo Medalist for Outstanding Research in Inorganic Chemistry.**

## JOB CLUB

The next meeting of the **Chicago Section Job Club** will be held on **Friday, October 24** at Kendall College at 5 p.m. The meeting will include a review and discussion of some of the fundamental tools that a chemist can use to conduct a Job Search.

The Job Club provides a continuing opportunity for unemployed members of the Section to meet with one another, share their experiences and develop a network that may help in identifying employment opportunities. Bring plenty of resumes and business cards to distribute to your colleagues. Be prepared to talk about what kind of job you are looking for.

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group actually critiqued some individual resumes and made suggestions for improvements in a positive way!

The Job Club is also for employers seeking chemists. Employers need to be prepared to describe the positions to be filled and requirements for these positions.

Should you wish to attend the Section meeting following the Job Club, the fee for unemployed members is only \$20 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

**The mission of the Chicago Section of the ACS is to encourage the advancement of chemical sciences and their practitioners.**

## BASOLO MEDAL

The Fred Basolo Medal is given for outstanding research in Inorganic Chemistry. It was established by the former students of Fred Basolo in appreciation of his contributions to inorganic chemistry at Northwestern University. Basolo arrived at Northwestern in 1946 and was able to help make the Department of Chemistry one of the very best in inorganic chemistry in the U.S., a position it still maintains today.


Basolo is internationally recognized for his original contributions to the syntheses and reaction mechanisms of transition-metal Werner complexes. He has also done innovative work in the developing fields of organometallic and bioinorganic chemistry.

Many of his former students occupy prominent academic and industrial positions. He has influenced students worldwide to study inorganic chemistry, and received the 1992 ACS Pimental Award in Chemical Education.

Among his numerous awards are the 1996 Chicago Section Willard Gibbs Medal and the ACS 2001 Priestly Medal.

### Previous Basolo Medalists:

Ralph G. Pearson	1991
Henry Taube	1992
Jack Halpern	1993
Harry Gray	1994
Lawrence Dahl	1995
Richard H. Holm	1996
Kenneth N. Raymond	1997
Malcolm Green	1998
Thomas J. Meyer	1999
James P. Collman	2000
M. Frederick Hawthorne	2001
Stephen J. Lippard	2002

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## REGISTER TO ATTEND MONTHLY SECTION MEETINGS

### ON LINE

at  
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## CHEMISTRY DAY 2003

Theme: "Earth's Atmosphere and Beyond"

Come celebrate

### Chemistry Day Chicago-style

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October 25, 2003

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Contact Tom Kucera at [tjkucera@interaccess.com](mailto:tjkucera@interaccess.com)  
 or phone the Section office (847) 647-8405

## BETTER LIVING THROUGH CHEMISTRY

DuPont had the title as its slogan for many years. However, with Love Canal, thalidomide and smog, the image of chemistry began to suffer. When George Pimentel, Chemist extraordinaire, became ACS President, the ACS announced National Chemistry Week, a challenge to chemists everywhere to undertake local educational programs to help our citizens and youth realize the overwhelmingly positive impact of chemistry in each of our lives as well as the ever expanding challenge to do more and better chemistry.

The July 7, 2003 Chemical and Engineering News carried the annual report, Facts and Figures. There we find that US chemistry shipments alone - including Basic Chemicals (160.9 billion dollars), Specialty Chemicals (107.6); Life Sciences (142.0) and Consumer Goods (51.5) amounted to 461.6 billion dollars in 2002. Truly a huge enterprise employing many people and providing materials for value added employment of many, many others.

And of course several professional organizations, including the ACS, have taken seriously the need to improve public awareness of the importance of chemistry to our health and welfare such as pharmaceuticals, detergents, fibers, other polymers, and even the chemistry of computers. But we need to do more than national public relations sorts of activities. We, as chemists, need to reach out to other people in a direct and interactive manner.

The Chicago Section spans seven counties: McHenry, Lake, Kane, DuPage and Cook in Illinois and Lake and Porter in Indiana. In that region served by the Chicago Section of the ACS, there are over 500 organizations (excluding the 100 or so universities, colleges and high schools) employing at least one person who is an ACS member. And there are 5,600 ACS members who are members of the Chicago Section. So there is a substantial pool of chemistry professionals from which volunteers might be found to serve. And there is a large pool of companies of whom some might be willing to engage in some pump priming both through financial support and through encouraging their chemists to engage in outreach activity.

Metro Chicago has about seven million inhabitants in this the third largest city and environs in the US.

So the challenge - and the opportunity - is clear. We need to become better organized so that through individual effort and outreach, right here where

we live and work, we can educate our regional population about what chemistry is and how it impacts our lives.

Toward responding to that challenge, for 14 years the Chicago Section has conducted a National Chemistry Week celebration. And we are in the process of gearing up for our next National Chemistry Day celebration for Saturday, October 25, 2003, designed for elementary and high school students, parents and teachers. Last year, at UIC, we attracted 775 elementary and high school students who were served by 200 volunteers.

In order to grow substantially beyond what we have been doing in the recent past, we need to raise our sights and to plan and to execute more ambitious activities - and year round. Toward that end we can explore what other ACS Sections around the US have been doing. Clearly the potential for being more effective in outreach and education of the public in metro Chicago about the importance of Chemistry is enormous.

We need to put a human face on chemistry. That can be done with articulate volunteers who are chemists, accessible venues where such activities can take place, and well done publicity so that the intended audience can be reached and the volunteer's time spent effectively. Where the support is available, the Chicago Section has done an admirable job. We need to build on those successes and to enable the Chicago Section to develop the one-on-one outreach needed to achieve the ACS goals of education of local population as exemplified by National Chemistry Week

PETER LYKOS

## ALMA CONFERENCE

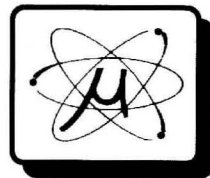
The Analytical Lab Manager's Association's (ALMA) annual conference will be held on October 29-31, 2003 at the Sheraton Station Square in Pittsburgh, PA. The conference will feature presentations and roundtable discussions around the conference theme "The Changing World and Challenges of the Analytical Organization and Scientist." In the addition to the presentations and roundtable discussions workshops for both the new and experienced analytical lab managers will be offered on October 28 and 29. ALMA is an international organization providing learning and networking opportunities for analytical managers to enhance their skills. To find out more about ALMA and the annual conference visit [www.labmanagers.org](http://www.labmanagers.org) or contact ALMA at 2019 Galisteo St., Building I, Santa Fe, NM 87505

## PITTCON 2004 PLENARY LECTURE

The Pittsburgh Conference is proud to announce that Dr. Larry Faulkner, President of the University of Texas at Austin, will present a Plenary Lecture, "Good Chemical Measurements and Good Public Policies," to open the Program at PITTCON 2004 in Chicago March 7-12, 2004.

This presentation will have four parts covering (a) illustrations of the impact of analytical chemistry on public debate and public policy, including instances where analytical capabilities actually gave rise to new issues and policies, (b) the manner in which chemical information is handled and understood in public debates, (c) areas of analytical chemistry that will be critical to sound public policy in the future, and (d) implications for the education of leaders and general citizens of modern societies. PITTCON 2004 President John Baltrus stated that, "This shows our continued commitment to bring the most important and recognized speakers in the fields of chemistry and education to PITTCON."

For more information on the 2004 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, please visit website <http://www.pittcon.org>.



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## DUTIES OF SECTION COUNCILORS EXPLAINED

This is a reprint of an article appearing in the April 1997 issue of the Chemical Bulletin. The article is updated annually and printed to help you with your decision in electing councilors and alternate councilors in the upcoming Chicago Section election. **Remember to cast your vote.**

Have you ever wondered who and what ACS councilors and alternate councilors are and what they do for you and the Chicago Section? The two major structural components of the Society besides your national officers and Board of Directors are local sections and divisions. ACS local sections and divisions not only elect their own officers, but also elect representatives to the ACS Council, the deliberative body of the Society. This is your opportunity to have a voice in Society's governance.

The Council consists of the President, the President-Elect, the Directors, the Past Presidents, the Executive Director, the Secretary, and more than 400 voting Councilors representing Local Sections and Divisions. The Council convenes twice a year at the Society's national meetings.

Councilors provide the principal contact between local section members and governance leaders in setting policies for the ACS that directly or indirectly affect you. Councilors are elected to serve a three-year term. Alternate Councilors represent the section when a Councilor is unable to attend a Council meeting.

Councilors also serve on National committees that meet during National meetings. Councilors are appointed to these committees by the President of the Society and are eligible to serve only three consecutive terms on the same committee. A councilor who accepts an appointment to a committee accepts an obligation to work year-round throughout that term. The Councilor is expected to attend meetings of the committee, and be willing to undertake special assignments that require time between meetings.

Committees of the Council are: 1) Standing Committees: Constitution and Bylaws, Divisional Activities, Local Section Activities, Meetings and Expositions, Membership Affairs, and Economic and Professional Affairs; 2) Society Committees: Budget and Finance, and Education; 3) Joint Board-Council Committees: Chemistry and Public Affairs, Environmental Improvement, International Activities, Professional Training, Publications, Science, Minority Affairs, Chemical Safety, and Younger Chemists; 4) Other Committees of the Council: Admissions, Analytical Reagents, Nomenclature, Project

SEED, and Women Chemists; and 5) Elected Committees: Council Policy, Nominations and Elections, and Committee on Committees.

There are also Standing Committees of the Board of Directors: Grants and Awards, Professional and Member Relations, and Public Affairs and Public Relations.

The Chicago Section is currently represented by 13 councilors. Starting in 2004, we have one more council seat, thereby giving us a total of 14 councilors. You elect the Section's councilors.

Most of these councilors are active members (or associates) on National ACS committees. Your Chicago Section Councilors and their committee appointments are: Roy H. Bible, Cheryl Lavaghn Bradley (Project SEED; Chemical Safety), Charles Cannon (Minority Affairs), David Crumrine, Nathaniel Gilham (Admissions), Russell Johnson (Communications and Public Relations), Fran Karen Kravitz (Economic and Professional Affairs Logo subcommittee; Professional Standards and Ethics subcommittee; liaison to Technician Affairs; also, a career consultant doing resumé reviews), Thomas Kucera (Meetings and Expositions), Claude Lucchesi (Chemistry and Public Affairs), Barbara Moriarty (Economic and Professional Affairs, Chair of Professional Standards and Ethics subcommittee; Chair, District V Caucus), Seymour Patinkin (Chair, Division of Professional Relations; Local Section Activities), Marsha A. Phillips (Nomenclature, Terminology and Symbols), and Stephen Sichak (Chemical Safety; Chair, By-Laws Committee for Division of Chemical Health and Safety; Member-at-large of Professional Relations Division).

Alternate Councilors for the Chicago Section are: Allison Aldridge, Sanford Angelos, Connie Buenvenida, Jennifer Horne, Marilyn Kouba, Angela Kowski, Margaret S. Levenberg, Sharon J. Northup, Gayle O'Neill, Darryl Prater (Minority Affairs; Education Task Force on Undergraduate Programming), Guy Rosenthal, Adele Rozek, and Fred Turner.

Some of our Councilors are involved in other activities related to the National Meetings. For example, Roy Bible (with LeRoy Johnson) teaches a 3-day NMR course before each National meeting. Claude Lucchesi teaches a course entitled "Managing the Chemical Analysis Support Laboratory."

James P. Shoffner is Ex Officio and is a Member of the Board as a Director-at-large, Chair of the ACS Board Committee on Public Affairs and Public Relations; Consultant on the Joint Board-

Council Committee on Minority Affairs; and a Member of the Resumé Pre-screening Group of Executive Director Search Committee.

Your Councilors and Alternate Councilors ask for your help, in providing your opinions about the Society and issues relating to the Society. This will help Councilors better represent you during Council.

CHERLYN BRADLEY

## CHICAGO SECTION BYLAWS REVISED

The bylaws of the Section have been updated to be in conformance with current practice and to reflect the change of our activity and budget cycle from an academic year to a calendar year. The Board of Directors recommended the changes, and these were ratified by the Section membership at the April 2002 Section meeting. The National Committee on Constitution and Bylaws, acting for the Council of the ACS, approved these changes. The modified bylaws are effective January 23, 2003 (the date these revisions were submitted to the National). The revised Bylaws document will be available to our members as a permanent resource on our web page.

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## SATURDAY ENRICHMENT PROGRAM

The Northwestern University Center for Talent Development has an exciting Saturday Enrichment Program for academically talented PreK-9th graders. Located on Northwestern University's Evanston campus and at Glenbard West High School (Glen Ellyn), this program allows students to explore science, mathematics, and the humanities at a pace and in peer groups compatible with their abilities.

The eight-week fall session begins Saturday, October 4th and runs through November 22nd. Morning classes are from 9:00 to 11:30am; afternoon classes are from 12:00 to 2:30pm (Evanston site only).

Course offerings include:

- Early Academic Program: Earth & Sky (PreK-K)**
  - Fractions, Beg. Geometry & Measurement (K-1)**
  - Interesting Insects (K-1)**
  - Circling the Globe with Children's Literature (K-1)**
  - Final Answer (1-2)**
  - Mysteries of the Night (1-2)**
  - Wild Wild West (1-2)**
  - Reading the Numbers (K-2)**
  - Beginning Writer's Workshop (1-3)**
  - Exploring Electricity (1-3)**
  - Math Essentials (2-3)**
  - Science Seekers (2-3)**
  - The Nifty Fifty (2-3)**
  - Understanding Operations on Fractions (3-4)**
  - Invention Convention (3-4)**
  - Civic Engineering (3-5)**
  - Stock Options (3-5)**
  - Famous Mathematicians & Their Problems (4-5)**
  - It's All Greek to Me (4-5)**
  - Fairy Tale Trials (4-6)**
  - Enrichment Topics in Math (5-6)**
  - Contemporary Classics (5-6)**
  - Etymology (5-8)**
  - The Amazing Human Body (5-8)**
  - Mythic Chronicles (6-8)**
  - Archaeology Alive (6-8)**
  - Rapid Reading (6-9)**
  - 3-D Geometry (7-9)**
  - Philosophy I Honors (7-9)\***
  - Persuasion & Debate Honors (7-9)\***
  - Latin I Honors (7-9)\***
  - Creative Writing Honors: Poetry (7-9)\***
- (\* = courses can be taken in a sequence for high school credit)

For course descriptions, program information, or to request a brochure, call (847) 491-3782 or visit the website at <http://www.ctd.northwestern.edu/programs/sep/index.html>.

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## WANTED: A FEW GOOD SCIENTISTS FOR PROJECT SEED

You and your organization are invited to apply to participate in Project SEED, the American Chemical Society's social action program that places economically disadvantaged high school students in academic, industrial, and governmental research laboratories for eight-to-ten weeks during the summer.

Project SEED offers high school students two exciting research opportunities:

- The Summer I program will provide first-time participants (rising juniors and seniors) a fellowship award of \$1,750.
- A second-year program, Summer II, provides Project SEED Summer I students an additional summer of scientific research. These students will receive a fellowship award of \$2,000. Additionally, Summer II students will be eligible for a travel grant of up to \$100 to present their research at an ACS or other scientific meeting.

Each student does a scientific research project in chemistry or related field under the direct supervision of a scientist/mentor. The students must be economically disadvantaged and must be enrolled in high school or be recent high school graduates; no student who has matriculated in college is eligible. The students must have taken one year of high school chemistry.

You need not have a student yet in order to apply. Apply now to sponsor a student and the local Project SEED Committee will work with you to obtain a student. Funding for the student will come from the National Project SEED office and/or matching funds from the local Section.

Be sure to visit the Project SEED website for more information: [www.acs.org/education/SEED.html](http://www.acs.org/education/SEED.html)

You can also obtain an application form, program guidelines, and other information from your local Section Project SEED co-chair, Cherlyn Bradley (630-510-0352, [cbrad1027@aol.com](mailto:cbrad1027@aol.com)) or from the National ACS Committee on Project SEED staff at 1-800-227-5558, ext. 4380.

**APPLICATIONS FOR THE 2004 SUMMER PROGRAM WILL BE AVAILABLE IN NOVEMBER.**

**APPLICATION DEADLINE WILL BE FEBRUARY 2004.**

If you are NEW to the Project SEED program, your willingness to expose students to a scientific environment is one of several steps that will allow students to discover the world of chem-

istry. The Council Committee on Project SEED office looks forward to reviewing your application.

Since Project SEED's inception in 1968, more than 6,300 talented high school students nationwide have spent the summer conducting research in local chemistry laboratories under the guidance of mentors. Both students and the community benefit. The students, while earning a stipend, find out what chemistry research or development is about and whether it might interest them as a career. These students become role models for younger students and almost all attend college.

For the Chicago area, fewer than 90 students have participated — not because we don't have students that qualify or aren't interested in the program (each year we can find plenty of students), but due to lack of academic, industrial, and governmental scientists willing to be mentors. We continue to have the few, dedicated scientists who have been involved in the program several years — and we salute you!

In order to get more Chicagoland students involved in the program, we need two things: 1) more scientists willing to participate as mentors/preceptors to foster the successful continuance and growth of this worthy program in the Chicago area for scientifically promising, but economically disadvantaged high school students and 2) more funding from Chicagoland corporations, foundations, and individuals to sponsor our students.

For you scientists who are NSF, NIH, or PRF grant holders, it is possible that you can get funding to sponsor a Project SEED student within your proposed research programs. Check with the ACS National SEED office at 1-800-227-5558, ext. 4380.

If you or your company would like to donate to your Chicago Section's Project SEED program to sponsor a local student, contact the Chicago Section office at (847) 647-8405.

CHERLYN BRADLEY AND CHARLES CANNON, CHICAGO SECTION PROJECT SEED CO-CHAIRS

## CHEMICAL HERITAGE FOUNDATION WEBSITE

The Chemical Heritage Foundation's website is now faster, easily searchable, and much easier to use. Available on this website is the history of the chemical and molecular sciences through interactive education modules, oral histories, images from the world's largest collection of alchemical art, and news that makes history. Log on to: [www.chemheritage.org](http://www.chemheritage.org).

## COME TO CHEMISTRY DAY!

Chemistry Day will be at the **University of Illinois Chicago campus on Saturday, October 25th**. It is scheduled for **9am to 3pm in the Science and Engineering South building at 845 W. Taylor St.** We have a full slate of activities of many different kinds; children and older students will all find something to interest them.

Demonstrations conducted by high school teachers will catch your attention and amaze the children. Hands-on fun with every day materials is another possibility for kids of all ages. Exhibitors from industry, academia and government agencies will show and tell what chemists do. There will also be a robotics demonstration.

The theme this year is "Earth's Atmosphere and Beyond". We have several speakers scheduled, among them Dr. Jeff Gafney of Argonne National Laboratory, Dr. Martina Schmeling of Loyola University and Dr. Takeshi Oka of the University of Chicago. Their topics range from various aspects of air pollution to the relationship between chemistry and astronomy.

If you have scouts in your family, plan to bring them to Chemistry Day where they will have the opportunity to earn a Youth Activities badge. In addition, two contests will be run; one is a poster contest and the other involves poetry writing.

For the most up-to-date information on the Chemistry Day activities, check out the Section web site and plan to join us.

SUSAN SHIH



Visit the  
**Chicago Section**  
at  
<http://membership.acs.org/C/Chicago>

## CONTACT THE CHAIR

Do you have any questions, suggestions, ideas, gripes, or complaints, relating to the Chicago Section? Do you want to volunteer to help with Section programs or activities? Then contact your Chair. Simply log onto the Section's Web Page at <http://membership.acs.org/C/Chicago>, find the green button "Contact the Chair", and send me an e-mail. If I can answer your query, I will respond personally. If I can't, I will forward your e-mail to someone who can, or try to provide you with a contact — all in a timely manner. I look forward to hearing from you.

SUSAN SHIH  
Chair

## ACS COMMITTEE ON MINORITY AFFAIRS CELEBRATES 10TH ANNIVERSARY


The Committee on Minority Affairs (CMA) joined the throngs of participants at the 225th ACS Spring National Meeting in celebrating its 10-year anniversary. Special guest Cecil Pickett, president of the Schering-Plough Research Institute, spoke at the luncheon of the CMA Presidential Event. A symposium and poster session celebrating success and reaffirming commitment followed the luncheon and was cosponsored by Corporation Associates, the Committee on Science, Project SEED, the Women Chemists Committee, and Younger Chemists Committee.

The meeting was as much about the success of the past 10 years as it was focused on the road ahead, particularly the University of Michigan case on the constitutionality of affirmative action in admissions. The numbers tallied from the ACS Scholars Program, which was established in late 1994, speak to the success of CMA. The ACS Scholars Program was initiated to encourage and support underrepresented minorities in the chemical sciences. That mission originated with the administration of former ACS President S. Allen Heininger. It has identified 1220 scholarship winners since its inception and boasts a retention rate of more than 81 percent. The ratio of female to male winners is 4 to 3. The scholarships are based on academic achievement and financial need and are awarded to Hispanic, African-American, and Native American students studying chemistry, chemical engineering, and biochemistry. Statistics and anecdotal evidence report that ACS scholarships have made it possible for a significant number of minority students to enter the chemical profession.

CMA is focused on strengthening the pipeline of minority students aspiring to become chemists, supporting minorities currently in the profession and the Society, and forming alliances with minority advocacy organizations (e.g., the Society for the Advancement of Chicanos and Native Americans in Science, the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, and the American Indian Science and Engineering Society) that share the goal of increasing leadership opportunities for minority scientists. Increasing minority members' participation in the Society is another CMA focus. As a result of the Society's recent membership campaign, minority membership has increased by approximately 30 percent.

In addition, nearly 30 local sections report activities dedicated to minority recruitment and retention.

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## NEW CHEMISTRY EDUCATION MINOR

In the new edition of the ACS guidelines for ACS-approved programs, a new chemistry education minor was introduced. Also included were revised requirements for the chemistry education option. The new guidelines and application forms for the minor and the chemistry education option are now available from the Office of Professional Training by calling 202-872-4589 or emailing [cpt@acs.org](mailto:cpt@acs.org).

## HOSPITALITY MENTORS

The Hospitality Committee is looking for Chicago Section members who enjoy helping new members become acquainted with the Section. You will be paired up with a new member who would like to learn about the Chicago Section and have a person to join them at a monthly dinner meeting. It is always hard to feel comfortable when you are new and don't have anyone to talk at a monthly dinner meeting. Let's show others how warm the Chicago Section can be! If you are interested please, contact Fran Kravitz at (630) 293-4122 or e-mail [FK1456@aol.com](mailto:FK1456@aol.com).

FRAN KAREN KRAVITZ  
HOSPITALITY COMMITTEE CHAIR

## Grants and Fellowships

### AAUW Fellowships

Applications are available for the 2004-2005 American Fellowships offered by the American Association of University Women. American Fellowships support women doctoral candidates completing dissertations or scholars seeking funds for postdoctoral research leave from accredited institutions.

Applicants must be U.S. citizens or permanent residents. Candidates are evaluated on the basis of scholarly excellence, teaching experience, and active commitment to helping women and girls through service in their communities, professions, or fields of research.

**Application postmark deadline is Nov. 15. See website at [http://www.aauw.org/fga/fellowships\\_grants/american.cfm](http://www.aauw.org/fga/fellowships_grants/american.cfm)**

### Sigma Xi Grants Grants-in-Aid of Research Program

Sigma Xi, the Scientific Research Society, offers Grants-in-Aid of Research to undergraduate or graduate students in all areas of the sciences and engineering. Awards range from \$100 to \$1,000. Designated funds from the National Academy of Sciences allow for grants of up to \$2,500 for astronomy or vision related research. Students use the funding to pay for travel expenses to and from a research site, or for purchase of non-standard laboratory equipment necessary to complete a specific research project. Students from any country are eligible to receive funding.

**The next application deadline is Oct. 15.**

Founded in 1886, Sigma Xi, The Scientific Research Society is a non-profit membership society of more than 70,000 scientists and engineers who were elected to the Society because of their research achievements or potential. Go to website <http://www.sigmaxi.org/programs/giar/index.shtml>

## CHEMICAL SAFETY WEBSITE

The American Chemical Society Committee on Chemical Safety's web address is <http://chemistry.org/committees/ccs>. Check it out for publications on laboratory safety for K-12, colleges, industrial labs, and small businesses.



# ALMA E-NEWS

## Character Test

The laboratory manager has a financial impact on the business beyond just control of the cost of providing services. Testing results used to measure product quality determine whether additional costs are incurred for rework and whether the product can be sold at market price or must be discounted.

Laboratory investigation of product failures can determine payment of claims and test results can influence the future course of critical projects. In fact, there is usually at least one interested party that has some financial or personal stake in the outcome of most laboratory tests and, occasionally, may pressure the lab manager to produce the "right" result that is most beneficial to them.

Rarely are these pressures a direct request to falsify a result but are more subtle ethical situations such as requesting selection of most favorable results from a group of replicates while omitting others, altering test conditions to produce a more favorable result, or simply withholding unfavorable results.

Conflicts between loyalties and ethical behavior can be very stressful so that the lab manager may be tempted to test the boundaries in these situations to avoid confrontation or to appear as a "team player". Or, the manager may choose to ignore these same situations when staff members are involved. These are the tests of character that measure a manager's performance as a leader. Do you pass the test?

Past ALMA (Analytical Laboratory Managers Association) e-News editions are available at the website <http://www.labmanagers.org/>.

If you have any comments, cost saving suggestions, opinions, etc. let me hear from you.

WAYNE COLLINS  
[wayne.collins@bpsolvaype.com](mailto:wayne.collins@bpsolvaype.com)

## SECTION MEETING LOCATIONS

**November 21, 2003**  
Drury Lane Oakbrook Terrace  
The English Room  
100 Drury Lane  
Oakbrook Terrace, IL 60181

**December 12, 2003**  
Monastero's Ristorante  
Gina's Banquet Room  
3935 West Devon Avenue  
Chicago, IL  
773-588-2515

## CANDIDATES FOR THE FALL 2003 ACS NATIONAL ELECTION

The National ACS Committee on Nominations and Elections (N&E) is pleased to announce the slate of candidates that will appear on the fall 2003 ballot. They are:

### For President-Elect, 2004

William F. Carroll, Jr.  
Occidental Chemical Corporation

Michael E. Strem  
Strem Chemicals, Incorporated

### For Directors-at-Large, 2004-2006

Dennis Chamot  
National Research Council

Nancy B. Jackson,  
Sandia National Laboratory  
Peter C. Jurs  
Pennsylvania State University

James P. Shoffner  
Columbia College

### For Director District I, 2004-2006

Ronald D. Archer  
University of Massachusetts

Anne T. O'Brien  
Consultant

Dorothy J. Phillips  
Waters Corporation

### For Director District V, 2004-2006

Judith L. Benham  
3M Company

E. Ann Nalley  
Cameron University

The above slate of candidates was confirmed at the ACS Council meeting in New Orleans.

## CHEMISTRY DAY 2003

Chemistry Day Chicago style will be celebrated this year on October 25, at the University of Illinois at Chicago. The National Chemistry Week theme for 2003 is "Earth's Atmosphere and Beyond". The Chicago program will include contests, hands-on experimentation, demonstrations, a teachers' workshop, exhibits, and speakers. An active committee chaired by Tom Kucera and Dave Crumrine together with volunteers helps make this day enjoyable and educational for the visitors. If you are interested in helping to celebrate Chemistry Day 2003, please email Tom Kucera at [tjkucera@interaccess.com](mailto:tjkucera@interaccess.com) or phone the Section office (847) 647-8405.

## DEADLINES FOR CHEMICAL BULLETIN

Please submit all Chemical Bulletin copy to the editor before the deadlines listed below for each issue. Articles can be emailed to the editor, Cherlyn Bradley, [cbrad1027@aol.com](mailto:cbrad1027@aol.com).

Since we like the Bulletin to be as timely as possible, we need the lead time indicated. You can help by early planning and submission of your information or articles.

Issue	Deadline
December 2003	10/17/03
January 2004	11/28/03
February 2004	12/26/03
March 2004	1/16/04
April 2004	2/27/04
May 2004	3/26/04
June 2004	4/30/04
September 2004	7/16/04
October 2004	8/27/04
November 2004	9/24/04
December 2004	10/22/04

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Micron Inc.	6	302-998-1184	<a href="http://www.micronanalytical.com">www.micronanalytical.com</a>
Axion Analytical Labs, Inc.	7	312-243-2153	<a href="http://www.ChromatographyTraining.com">www.ChromatographyTraining.com</a>
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## CALENDAR

**October 8, 2003:** The Chicago Chemists' Club will meet at the Arkadasha Caf  (Turkish), 5721 N. Clark in Chicago. The speaker is Mike Flannery, television political commentator for channel 2. For reservations and further information, contact Judy Reuter at (847) 679-2444.

**October 13, 2003:** The Consumer Specialty Products Association (CSPA) will co-host "Cleaning Products Fundamentals" at the McCormick Place in Chicago. For more information, contact Michelle Pitkin at (202) 833-7305 or [mpitkin@cspa.org](mailto:mpitkin@cspa.org).

**October 14-15, 2003:** Micro/Nano Conference and Workshop will be held at Chicago's Navy Pier. For a conference program and registration information, contact Susan Beck at (630) 288-8494 or email her at [sbeck@reedbusiness.com](mailto:sbeck@reedbusiness.com).

**October 24, 2003:** Society of Cosmetic Chemists - Midwest Chapter Fall Technical Symposium will be at the Wyndham Northwest Chicago, Itasca, IL. The topic is "Rhyme, Reason, and Ramifications of Product Regulations". For details, go to [www.midwestscc.org](http://www.midwestscc.org) or contact Angela Tabor at [atabor@stepan.com](mailto:atabor@stepan.com), (847) 784-2040.

**October 25, 2003:** The Chicago Section will celebrate Chemistry Day at UIC. The National Chemistry Week theme is "Earth's Atmosphere and Beyond". See articles in this issue.

**October 28-30, 2003:** ASTM training course, Aviation Fuels: Specifications and Test Methods, will be given in Chicago. To register, contact Eileen Finn at (610) 832-9686, [efinn@asom.org](mailto:efinn@asom.org) or via online at [www.astm.org](http://www.astm.org).

**October 28, 2003:** The Consumer Specialty Products Association (CSPA) will host "The Best Practices in the Development of Air Care Products" at The Marriott Chicago Suites O'Hare. For more information, contact Michelle Pitkin at (202) 833-7305 or [mpitkin@cspa.org](mailto:mpitkin@cspa.org).

**October 29, 2003:** The Consumer Specialty Products Association (CSPA) will host "The Consumer Products VOC Seminar" at the Marriott Chicago Suites O'Hare. For more information, contact Michelle Pitkin at (202) 833-7305 or [mpitkin@cspa.org](mailto:mpitkin@cspa.org).

**October 29-31, 2003:** Analytical Laboratory Managers Association (ALMA) 24th Annual Conference will be held at the Sheraton Station Square, Pittsburgh, PA. The theme is "The Changing World and Challenges of the Analytical Organization and Scientist". For further information on the conference and its workshops, call (505) 989-4683, [alma@labmanagers.org](mailto:alma@labmanagers.org), or go to [www.labmanagers.org](http://www.labmanagers.org). Advance registration deadline is September 26.

**November 11, 2003:** Society of Cosmetic Chemists - Midwest Chapter meeting will be at the Grazie, Des Plaines, IL. For details, go to [www.midwestscc.org](http://www.midwestscc.org) or contact Angela Tabor at [atabor@stepan.com](mailto:atabor@stepan.com), (847) 784-2040.

**November 17-20, 2003:** The Eastern Analytical Symposium and Exposition will be held at the Garden State Convention Center in Somerset, NJ. Abstracts deadline is April 15. Go to <http://eas.org> for further information.

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