CHICAGO SECTION AMERICAN CHEMICAL SOCIETY
Joint Meeting with CHICAGO CHEMISTS CLUB
HOLIDAY PARTY/MEETING
FRIDAY, DECEMBER 14, 2001

DIRECTIONS TO THE MEETING
Take 1-94 (Edens Expressway) to either Touhy Avenue East or Peterson Avenue East exit. These exits drop you off at Cicero Avenue. If you exit at Peterson Avenue, go 1/2 mile north on Cicero to Devon Avenue. If you exit at Touhy Avenue, go south on Cicero one mile to Devon Avenue. Go east on Devon Avenue just past Pulaski Avenue (about 1/2 block). The restaurant is on the south side of the street.

Parking: The restaurant has convenient, free valet parking.

This is the Chicago Section ACS/Chicago Chemists Club Annual Holiday party/meeting. At this event, everyone is a chemist (either practicing or honorary)! Come join in the celebration with all your fellow chemists. So, in addition to our technical program, Santa will be bringing gifts! ENJOY!

FOOD FOR CHARITY
We will be collecting canned goods for charity at the December Holiday Party. Please bring at least one can of food to donate when you come. Thanks!

SOCIAL HOUR 6:00-7:00 P.M.
Cash Bar Available with complimentary hors d'oeuvres

DINNER 7:00 P.M.
Dinner reservations are required, and should be received in the Section office via phone (847-647-8405), fax (847-647-8364), or via our website (http://membership.acs.org/C/Chicago).

Because this is the holiday season, we ask that you make your reservations earlier than usual and, if possible, by Friday, December 7, 2001.

Holiday Menu: Fresh Fruit cup, Fresh Tossed Salad with choice of dressing, choice of either Roast Tenderloin of Beef Medallions or Broiled Filet of Salmon, baked potatoes with assorted fresh vegetables, rolls and butter, Torta Gelata (a special Italian dessert), and a glass of wine in addition to the usual beverage. The vegetarian entrée is Spinach Lasagna and is available upon request at the time of reservation. The cost to Section members who have paid their local section dues, members’ families, and visiting ACS members is $35.00; Cost to non-Section members is $37.00. Tables of 8 or 10 are available and may be reserved at this time. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

GENERAL MEETING 8:00 P.M.
Ms. Abigail Quandt, Head of Book and Paper Conservation, The Walters Art Museum, Baltimore, Maryland
Title: Conservation and Digital Imaging of the Archimedes Palimpsest
Abstract: A parchment manuscript now on deposit at the Walters Art Museum, which was written in Greek in the 10th C., contains seven treatises by the famous mathematician and thinker Archimedes. In the 12th C. the manuscript was taken apart and the old writings were scraped off and reused to make a Christian prayer book. This palimpsest containing the works of Archimedes remained unknown to the scientific world until 1906 when the faintly visible text was transcribed and published by a Danish philologist. The manuscript then disappeared again until 1998 when it was sold at auction to an American collector. He then brought it to the Walters with the intention of having the condition of the manuscript stabilized and the Archimedes text digitized for later distribution to interested scholars worldwide. This lecture describes the contents of the palimpsest, its physical condition and the conservation treatment that has been undertaken so far on the manuscript. The efforts that are being made to digitally capture and transcribe the Archimedes text will also be discussed.

Biography: Abigail Quandt received an M.Sc. and Diploma in Conservation from the Winterthur/University of Delaware Art Conservation Program in 1982, after having completed a third degree in art history at the University of Maryland. She joined the Walters Art Museum in 1983 and was promoted to Head of Book and Paper Conservation in 1993.
(continued from page 1)

year internship in rare book conservation at the Library of Congress. This was followed by an advanced internship at Trinity College Library, Dublin from 1982-1984 and a brief period of study with the English bookbinder and conservator Roger Powell. Ms. Quandt first began working at the Walters Art Museum in early 1984, as a visiting manuscripts conservator, and then joined the staff of the museum in 1989. Ms. Quandt specializes in the conservation of illuminated manuscripts on parchment and has lectured and published on this and related topics. Sponsored by the Campbell Center for Historic Preservation Studies and the former Conservation Analytical Laboratory (now Smithsonian Center for Materials Research and Education), Ms. Quandt has taught a five day course on parchment conservation for practicing book and paper conservators. She was also the co-compiler of a chapter on parchment manuscripts. The Walters Art Museum, co-compiler of a chapter on parchment manuscripts.

GRANTS

Materials Research Science and Engineering Centers:
The National Science Foundation’s Materials Research Science and Engineering Centers (MRSEC) program supports interdisciplinary, university-based group research and education in the area of materials science and engineering, condensed matter physics, solid state and materials chemistry, and related areas of science and engineering. An MRSEC encompasses one or more interdisciplinary research groups (IRGs). The IRGs involve several faculty and associated researchers with complementary background and expertise and address an area of research which requires interactive efforts among the participants. Individual MRSEC awards are expected to range in size from about $0.8 million per year to $5 million per year. Application deadline is Jan. 14, 2002. For details, visit http://www.nsf.gov/mps/dmr/mrsec.htm.

Women’s International Science Collaboration Program

The National Science Foundation’s Women’s International Science Collaboration Program provides grants of up to $4,000 to individual U.S. women scientists who plan to establish new research partnerships with their colleagues in Central/Eastern Europe and the Newly Independent States of the former Soviet Union. The program is funded by the NSF Foundation and administered by the Program on Europe and Central Asia of the American Association for the Advancement of Science. U.S. scientists can spend up to four weeks in the partner country to develop a research program and design. Next deadline is Jan. 15, 2002. For more information, contact Karen Grill, AAAS, at 202-326-7027 or kgrill@aaas.org or visit http://www.aaas.org/international/eca/wisc.shtml.

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 to at a monthly dinner meeting. Let’s show others how warm the Chicago Section can be! If you are interested please contact Fran Kravit at (630) 293-4122 or e-mail FK1456@aol.com.

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR

CHICAGO SECTION ACS SPEAKERS FOR 2002

Friday, January 25, 2002
Dr. Phyllis Bowen
Dept. of Human Nutrition
University of IL, Chicago

Friday, February 22, 2002
Dr. A. Truman Schwarz
Macalester College
Saint Paul, MN

“Chemistry and its Teaching at the Turn of the Century: The Janus View”

Friday, March 22, 2002
Public Affairs Meeting
Dr. Dennis Hjeresen
Director, ACS Green Chemistry Institute

Friday, April 19, 2002
Dr. Norman P. Neureiter
Science and Technology Adviser to the Secretary of State
Washington, D.C.

“Science, Technology and US Foreign Policy”

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20. Scholars Program/Mentors needed
21. Chemical Bulletin Ad Rates
22. JobSpectrum.org
23. WCC Travel Awards
Then how the atoms reacted
And combined in twos and threes
Iron the red-tinged atom
You'll go down in Chemistry!

Submitted by DR. K. A. CARRADO.

All past "ChemShorts": http://member­ship.acs.org/C/Chicago/ChemShort/ kidindex.html


PUBLIC AFFAIRS MEETING
TO FOCUS ON GREEN
CHEMISTRY

For the past 14 years our public affairs meetings have alternated between award presentation in one year, followed by a public affairs lecture(s) in the next year. For March 2002, we will be presenting our lecture, or lectures. The topic this year will be "Green Chemistry." We will be presenting two lectures, the first being an early talk at 5:30 pm. Dr. William Nelson of the Illinois Waste Management and Research Center will give a talk based on his research using carbon dioxide as a solvent for traditional organic reactions, such as Friedel-Crafts and other acid catalyzed reactions. The after dinner talk will be given by Dr. Dennis Hjeresen, Director of the ACS Green Chemistry Institute. The GCI was established by the ACS in 2000 with the following mission: "The Green Chemistry Institute promotes national and international government-industry collaboration with universities and national laboratories." So, please give Friday, March 22 a prominent place on your calendar of events for 2002. You will be hearing more about this program during the coming months.

JIM SHOFFNER
CO-CHAIR, PUBLIC AFFAIRS COMMITTEE

FREE T-SHIRTS

The Hospitality Committee will be raffling off 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 can win one. Congratulations to T-shirt winners Adele Rozek(September) and Rudy Haidle(October).

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR


CONTACT THE CHAIR

Do you have any questions, suggestions, recommendations, ideas, gripes, complaints, pet peeves relating to the Chicago Section? Do you want to volunteer, help out, lend a hand 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. The Section belongs to you and the other 5,475 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. Only you can make it fail by not being involved. I look forward to hearing from you.

Herb Golinkin
Chair

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Younger Chemists Network

The Department of Local Section and Community Activities of the ACS enjoys developing and implementing new and innovative ideas for local sections. There is a new program sponsored by the Younger Chemists Committee (YCC). It’s called the Younger Chemists Network (YCN).

The Younger Chemists Network is a database of volunteer opportunities within the ACS for which members under the age of 35 indicate that they wish to be involved. The members are prompted to choose from a list that includes volunteer opportunities such as Kids & Chemistry, mentoring minorities, and getting involved in local section activities. Some of the activities that these volunteers are interested in include National Chemistry Week, student and teacher outreach programs, and career development programs. They may even be interested in assuming leadership roles in their local section. YCC solicits names for the YCN through the YCC newsletter, the YCC website, and at the booth which is displayed at regional and national meetings. Please visit the YCN website at http://membership.acs.org/scripts/y/ycc/ycnintro.asp for a more detailed description of the program and a complete list of volunteer opportunities. Questions about YCC and YCN can be directed to Jodi Wesemann, YCC chair, or Kathy Glasgow, YCN Chair, via contact information provided on the YCC website http://membership.acs.org/scripts/y/ycc/home/default.asp.

The Younger Chemists Network is certainly an excellent way to find future leaders and volunteers who are interested in promoting chemistry-related programs and activities.

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.

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.

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SECOND GROUP OF 2001 PRF GRANTS APPROVED

In March 2001, the ACS Board of Directors approved 120 ACS-Petroleum Research Fund (PRF) grants. ACS administers the PRF fund. The second group of 2001 PRF Grants again includes four Chicago area recipients.

The following are the Chicago area recipients of an ACS-PRF Grant for Advanced Scientific Education and Fundamental Research in the Petroleum Field:

Mark L. Schlossman, University of Illinois, Chicago; Nanoscale Films at the Aqueous-Aqueous Interface.


Michael W. Trenary, University of Illinois, Chicago; recipient of a Summer Research Supplement to the grant for his work on Catalytic Surface Chemistry of Transition-Metal Borides.

Congratulations to all recipients!

For information and application materials for PRF grants, contact the Petroleum Research Fund, American Chemical Society, (202) 872-4481, http://www.acs.org/prf/.
A CHEMIST AND PROTECTIVE ANGELS

It's not important whether you do or do not believe in angels, especially protective angels. If angels to you are esoteric or fictitious, it doesn't matter. This story is not meant to sway you one way or another. It's purely imaginary — yet not only meant to entertain you, but also to get you thinking about lab safety.

This is a story of a scientist who is shown what life would be like if angels didn't come to his rescue.

Scene I

Melvin is an apprentice angel conducting a census of unsafe scientists who have recently arrived at the Great Beyond. Their arrival was precipitated by their unsafe actions while carrying on their scientific endeavors. This room of new arrivals is one floor up from... well, you know where! And it's hot and smelly down there! Melvin is uneasy. He's tired of counting and interviewing newly arrived scientists to find out what propelled them to the Great Beyond. Melvin is anxious for a change of scenery and a change of duty.

One day Melvin's supervisor asks him to go down to earth to convince Dr. Schmoe, a well-known scientist, and his graduate student, Alexis, to stop taking foolish risks. "If you can pull this one off", his supervisor tells him, "I think I can convince Mr. Big to let you put your talents to better use."

Scene II

When Melvin arrives on earth, he encounters Dr. Schmoe and Alexis in their laboratory at the University of Scientific Endeavor. Dr. Schmoe and Alexis are infamous for their disdain of most safety rules and regulations. In their opinion, these rules and regulations are inconveniences that interfere with their high power research. Their credo is "come on, we do this every day and we haven't been hurt yet!" Their philosophy is "all safety specialists live in a fantasy world and are regulators telling you what to do and how to do it." As a consequence, Dr. Schmoe and Alexis are both ignorant of (nor do they subscribe to) the basic safety tenets that all laboratory personnel should not only be familiar with but should also comply with.

At the initial encounter, Melvin introduces himself to Dr. Schmoe and Alexis by telling them that he's Melvin their protective angel. He further clarifies his visit by telling them he is just one of several angels sent to keep unsafe situations, that could cause problems, from happening. He further explains that he is one of several angels sent on this mission. Melvin voices his opinion, "I do agree with your idea that most safety specialists are just regulators that tell you what to do and what not to do while interfering with your high power research. Just how many of them have laboratory or science safety experience? Nonetheless, let me tell you again. I'm Melvin your protective angel. A team of angels has previously been assigned to protect you but the Boss, Mr. Big, is running out of patience with your disdain of good safety practices. That's why he has sent me, and other protective angels, to help you see the error in your ways.

Dr. Schmoe and Alexis are awe-stricken. They stammer and stutter as they raise their voices in protest. "We're quite capable of taking care of ourselves! Besides, risks are a part of all scientific work", they protest.

Melvin shakes his head and replies, "I agree that some risks are impossible to avoid. That's why you should NEVER take needless risks. Let me show you what would have happened if our protective angels hadn't stepped in to bail you out from foolish risks."

Scene III

Moments later, Dr. Schmoe, Alexis, and Melvin are standing on a street corner in the city where the University of Scientific Endeavor is located. In front of them is a one-eye man who is wearing an old, stained lab coat, selling pencils and pan handling. Dr. Schmoe recognizes the man as himself! The one-eye man's companion looks very much like Alexis. He asks, "What am I doing selling pencils and pan handling with Alexis? And what happened to my eye?"

Melvin answered, "Don't you remember when you needed a 5 molar aqueous solution of sulfuric acid? Alexis was asked to prepare it but he couldn't remember if the safest way to do it was water into acid or acid into water. He made the wrong choice! When the water was added to the concentrated acid, the solution shot out of the receptacle and into your face. Fortunately for Alexis, he was wearing safety goggles, as anybody working in a laboratory should! Unfortunately, you weren't because of your attitude of "we do this every day and we haven't been hurt yet". The solution sprayed into your eyes and you didn't find the eye wash fountain in time. And besides that, the eye wash fountain was not tested on a weekly basis!

The safety goggles that Alexis was wearing were destroyed, as was his synthetic fabric lab coat. Only a tiny blister formed at the corner of his mouth besides suffering a wounded ego. You, however, would have suffered irreparable damage to both your eyes if our angel had not protected you from harm." Dr. Schmoe and Alexis were speechless.

Scene IV

In the next scene, all three are standing in a large reception area of a nursing home. In one of the rooms, Dr. Schmoe recognizes the occupant as himself! The other person, a visitor, looks exactly like Alexis. The spitting image of Dr. Schmoe has his eyes wide open but is completely unaware of what is taking place.

"What's going on now?" Dr. Schmoe inquires as he moves closer to the nursing home resident. "Now where are we?" he asks Melvin.

Melvin answers Dr. Schmoe, "Do you remember the time you were conducting process research with an experimental reaction that generated toxic hydrogen sulfide? Although large quantities of this poisonous gas were being generated, you had it venting through a reflux condenser in a chemical fume hood. You thought the hydrogen sulfide was being vented by the airflow in the hood. What you didn't realize at the time was that the fume hood was not functioning.

You assumed, from the humming sound of the motor, that the hood was venting properly. Indeed, the motor was running but there was no air movement to remove the noxious and toxic fumes. Although it appeared that everything was operating properly, in reality, there was NO airflow to remove the hydrogen sulfide. What was happening was that the humming sound was coming from the exhaust fan motor as if it was operating but in reality the fan blades were not turning. The belt between the motor pulley and the fan blades had worn out some time ago. Besides that, you did not do a fluttering tissue test to make sure there was movement of air. One other thing that you neglected to do was use an approved and properly operating hydrogen sulfide detector.

When the odor of hydrogen sulfide was initially detected by you, you didn't realize that odor alone is not a good measure of concentration of this gas. Hydrogen sulfide paralyzes the sense of smell. As a consequence, you were overcome by the non-venting hydrogen sulfide.

In this case, the hazardous gas overwhelmed you and you lost consciousness. One of your protective angels prodded Alexis to realize that you were working in a lab where hazardous material was being (continued on page 7)
generated. This is not only dangerous and forbidden but you also neglected to notify one or more of your colleagues. Because of the angel's prodding, Alexis decided to look in on you. He found you on the floor in front of the malfunctioning fume hood which, by this time, had become filled with the venting, toxic hydrogen sulfide.

Alexis dragged you into fresh air and, thanks to his training in emergency procedures, he called for help through the 911 system. Fortunately for you, the fresh air and the administration of oxygen by the emergency personnel revived you before it was too late. If protective angels hadn't intervened, the hydrogen sulfide that you inhaled would have ended up in your blood stream making you a candidate for this rest home."

Scene V

Without warning, Dr. Schmoe and Alexis are suddenly standing on the deck of a cruise ship. Pointing to a well-dressed couple walking arm-in-arm, Melvin asks, "Do you see that woman?" Both Dr. Schmoe and Alexis answer, "Yeah, who is she and who is that guy she's walking with, her son?" Melvin answers as the couple passes by, "Don't you recognize them? That's your wife, Dr. Schmoe, or should I say your widow. That young man is Alexis, her husband. It should be noted that, after he finished his biotechnology training under your tutelage, a position with the National Genome Research Institute became available and he accepted. Later, Alexis became her husband after she was widowed.

Last August, when you were going to prepare a sample of dimethyl mercury, one of the protective angels alerted you to the fact that dimethyl mercury was the causative agent in the fatality of an internationally known chemist. Look at what could have happened if you had not been warned of the extreme hazard of dimethyl mercury. Sure your wife was heart broken and chagrined...for about a week. But the big insurance check seemed to have perked her right up! So, after the funeral, she took the insurance money, went shopping, bought a pile of new clothes, found herself a young stud, who happened to be Alexis, and went on a world cruise."

Dr. Schmoe stands there stunned. "I don't like this scenario", he says while turning to Melvin. But Melvin is gone! Dr. Schmoe vows never again to ignore safety rules.

Scene VI

And, what about Melvin? Mr. Big was very pleased with Melvin's work and, joyfully, Melvin made his way up the stairs from heaven's basement.

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What about angels? Do you not believe in protective angels or has an angel stepped into your life at one time or another? And has this angel saved you from a potentially disastrous situation?

STEVE SICHAK
CO-CHAIR, ENVIRONMENTAL & LABORATORY SAFETY

ASSOCIATIONS SUPPORT RELIEF EFFORTS

In the aftermath of the tragic events on September 11, 2001, the American Society of Association Executives (ASAE) is working with the American Red Cross to mobilize financial support for the relief and recovery efforts in New York and Washington. Members of associations, and the associations themselves, who wish to make a contribution on behalf of the association community may send contributions directly to the Associations Advance America Red Cross Fund, ASAE Building, 1575 I Street NW, Washington, DC 20005. The entire proceeds will be presented to the American Red Cross as a collective representation of financial support from the USA association community and business partners. Go to http://www.asaenet.org for further information.

INTERNATIONAL CONFERENCE ON SAFETY IN SCIENCE AND SCIENCE EDUCATION

The first International Conference on Safety in Science and Science Education will be held July 7-14, 2002 at Sacred Heart University in Fairfield, Connecticut. The conference will feature training seminars, short courses, invited and contributed papers, and keynote addresses. Participants from over 25 countries are expected to attend.

The conference is organized jointly by the Department of Chemistry at Sacred Heart University and The Laboratory of Safety Institute. The Department of Chemistry at Sacred Heart has programs in teacher enhancement, including laboratory safety for pre-college teachers. The Laboratory Safety Institute (www.labsafety.org), located in Natick Massachusetts, is the only non-profit organization focused on safety in science education. Since 1978, the Institute has trained over 50,000 scientists and science educators.

For more information, contact Dr. Babu George (georgeb@sacredheart.edu, (203) 371-7795) or Dr. James Kaufman (labsafe@aol.com, (508) 647-1900).

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TEI Analytical, Inc. congratulates the American Chemical Society on the occasion of its 125th anniversary
activities in perspective

The events of September 11 put lots of things into perspective, including the challenges facing local sections of scientific societies. While some societies struggle to get members interested in events, experts suggest that the societies may be trying to hard. Speakers at the Chicagoland Science and Technology Leadership Series premiere mini-symposium September 5 in Niles urged societies to take a more relaxed approach.

Every month, TEI Analytical, Inc.'s emailed newsletter, Chicagoland Science and Technology News, runs a long list of meetings of local sections of science and technology societies. Some struggle to meet restaurants' minimum attendance requirements. Why not combine a monthly meeting with one of these other societies? Find speakers to talk about subjects of broader interest. All day long scientists work hard. Maybe their monthly meeting can give them a chance to relax among family, friends and colleagues.

Joint meetings, pooling resources, and having fun with other societies are three ways Chicago area science and technology societies can stimulate member involvement in their local section activities.

"Meetings have to change," said Gail Wiseman, Field Services Manager for the Institute of Food Technologists (IFT). Since fewer companies support employees' attendance at professional meetings, "it can't be the same old experience." "Useful information and entertainment draw members to meetings," she added.

IFT's Distinguished Lectureship Program, which provides speakers for local section meetings, now features more light-hearted presenters such as food toxicologist Carl W. Winter of the University of California Davis, who sings songs about food safety to popular tunes (i.e., "You Better Wash Your Hands" to the tune of the Beatles' "I Want to Hold Your Hand," and "Clonin' DNA" to the Beach Boys' "Surfin' USA."). Winter performs 25-30 times a year at various professional meetings.

Gregory D. Cargill, Director of the Illinois Water Environment Association, also stressed the importance of lightening up heavy meetings. "Make it fun, make it social," he said. Cargill's approach to routine committee meetings is to keep them short and go have fun.

Alan Zagoria, Special Projects Chair for the American Institute of Chemical Engineers Chicago Section, has developed creative presentations and experiments about chemical engineering for members to take into schools. Cleaning up an oil spill and scaling up an alphabet soup recipe are among the most popular hands-on activities available. Presentations and background materials are available on the section's website, www.aiche-chicago.org, for easy downloading.

Zagoria urges the creation a network of student outreach chairs of other Chicago science and technology societies to share ideas and pool resources.

Sponsored by TEI Analytical, Inc., the mini-symposium, "Beyond the Monthly Meeting: Energizing and Activating Local Section Members," generated numerous other suggestions for jump-starting scientific societies.

Wiseman urged local section officers to: 1. Contact their national offices, which may already have the support services and materials the local section needs; 2. Recognize volunteers for their efforts with plaques, awards, certificates, thank you letters to volunteers and their supervisors, and news releases to local papers; 3. Thank members who call to express a complaint or concern. Those who don't bother to call probably have given up hope; 4. Communicate with members often, not just at dues time. Use listservs, emails, and web sites to communicate more timely information; 5. Create strategies to encourage long-time members to interact with new members at meetings; 6. Don't issue desperate pleas for volunteers. No one wants to join a sinking ship. Instead, ask members who they like to do, and let them know what opportunities are available for them to do what they love.

For more information on the Chicagoland Science and Technology Leadership Series, visit www.teianalytical.com.

thoughts reiterated by the septembeR 11, 2001 terrorism

"These are times that try men's souls. The summer soldier and the sunshine patriot will, in this crisis, shrink from the service of their country; but he that stands it now deserves the love and thanks of man and woman. Tyranny, like hell, is not easily conquered; yet we have this consolation with us, that the harder the conflict, the more glorious the triumph. What we obtain too cheap, we esteem too lightly. It is dearness only that gives everything its value. Heaven knows how to put a proper price upon its goods, and it would be strange indeed if so celestial an article as freedom should not be highly rated."

Thomas Paine, from his essay, The American Crisis, Number 1 which appeared in the Pennsylvania Journal December 19, 1776

the science and technology interactive center (scitech) in aurora is celebrating its new outdoor science park and the backyard monsters and glass fest exhibits that opened in 2000. this year, the museum's exhibits include amusement park science and t-lex: king of the dinosaurs.

scitech's hands on museum allows people of all ages (individuals, classes, and families) to experience science, mathematics and technology in a fun and interactive way. the museum also offers world-renowned topical traveling exhibitions, hosts science clubs, summer camps, and other educational programs.

scitech opened to the public in may 1989. a permanent museum site was established at the beginning of 1990. memberships are available for individuals and families.

the museum is located in downtown aurora, IL at 18 W. Benton. for additional information, call scitech at (630) 859-3434. also visit http://scitech.mus.ill.us/.

register to attend monthly section meetings

on line

at http://membership.acs.org/C/Chicago

the following poem is frequently read in england to honor those killed by terrorists.

do not stand by my grave and weep

Do not stand by my grave and weep; I am not there, I do not sleep. I am a thousand winds that blow. I am the diamond glint on snow. I am the sunlight on ripened grain. I am the gentle autumn rain. When you awaken in the morning's hush I am the swift uplifting rush Of quiet birds in circled flight. I am the soft stars that shine at night. Do not stand at my grave and cry; I am not there. I did not die.

author unknown
WCC DIVERSITY AWARD

The ACS Women Chemists Committee (WCC) celebrates its 75th Anniversary in 2002. The theme for this Diamond Jubilee is “Diversity in the 21st Century - Advancing Women in Science.” WCC is planning a variety of programs for the 2002 ACS national meetings in Orlando and Boston and at the 2002 regional meetings.

In keeping with the ACS Presidential theme of diversity in 2002, WCC voted to create a regional award to recognize individuals who significantly foster diversity in the chemical enterprises. As part of the year-long anniversary celebration, this award will be presented at each ACS regional meeting in 2002.

The WCC asks each local section to nominate an individual who has significantly stimulated or fostered diversity in the chemical enterprises. The nomination package should consist of a letter of not more than 1,000 words evaluating the nominee's accomplishments and a specific identification of the contributions with respect to diversity as well as a biographical sketch, including contact information. One seconding letter will be accepted.

Nominees for the award may come from any professional setting: academia, industry, government, or other independent facility. The award is intended to recognize significant accomplishments by an individual. The award will be given without regard to the age, gender or nationality of the recipient.

Send nominations to:

Women Chemists Committee
American Chemical Society
1155 16th Street NW
Washington, DC 20036

For information regarding the award, contact Cheryl Brown, 800/227-5558 ext. 6123, or e-mail: wcc@acs.org

Deadline for receipt of nominations is February 1, 2002.

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

APPLICATION DEADLINE WILL BE JANUARY 2002.

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

Since Project SEED's inception in 1968, more than 5,000 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 80 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.

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

SCHOLARS PROGRAM LOOKING FOR MENTORS!

The American Chemical Society Scholars Program provides more than a stipend check to those students selected to receive the scholarships. We work to identify mentors for each of the students in the program. The program currently includes 284 students, attending 160 different colleges and universities and will expand to 350 students for the 2001-2002 academic year. If you are interested in becoming a mentor for one of our students, please contact the ACS Scholars Program, Department of Diversity Programs, 1155 16th Street, N.W., Washington, DC 20036, or telephone toll-free 1-800-227-5558, ext. 6250, or send an e-mail message to scholars@acs.org.

THE CHEMICAL BULLETIN ADVERTISING RATE SCHEDULE

The official newsletter of the Chicago Section American Chemical Society, The Chemical Bulletin, publishes news and information of interest to the Section's 5,600 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

2001-02 AD RATES*

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*for October 2001 — June 2002

For more information, contact evalopez@teianalytical.com or call 847-647-8405. Fax insertion orders to 847-647-8364.
JOBSPECTRUM.ORG MAKES THE CONNECTION BETWEEN EMPLOYERS AND EMPLOYEES

More than 1,000 job seekers have signed up at Jobspectrum.org since June 1 and more than 200 companies are actively posting positions. JobSpectrum serves the chemical science industries including chemistry, biochemistry, biotech, pharmaceuticals, environmental services, materials, petrochemicals, and many others.

JobSpectrum is dedicated to connecting job seekers with employers such as Fluor Daniel, Procter & Gamble Pharmaceuticals, Pharmacia, EPA, HEL, Pharmaceutical Discovery, NRC, Critical Path, Atofina Chemicals, Auspex Pharmaceuticals and GL Synthesis for a variety of positions.

At JobSpectrum, job seekers can post their resumes for all the top companies to see, get information on current job openings, and be notified when jobs meeting their specific criteria become available. Even if you aren’t looking for a job right now, JobSpectrum has a wealth of information and resources available, including tips to help you find the right job, manage your career, salary trends and surveys, educational opportunities, and more. Sign up today at www.JobSpectrum.org.

The site makes it easy for employers to manage all of their job ads, resumes, and candidates. Find valuable tips on how to recruit, hire and keep the best people, how to use telephone interviews as a recruiting strategy, and more. Simply go to http://www.JobSpectrum.org/postjobs and try JobSpectrum for yourself.

JobSpectrum is your online career and employment connection. For more information, go to the website or call toll free at 888-667-7988.

THE CHEMICAL SAFETY WEBSITE

The American Chemical Society Committee on Chemical Safety web site has a new look, new content, and a new url. The new 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.

Women Chemists Committee of the American Chemical Society is pleased to Call for Applications for Travel Awards

For post-doctoral, graduate, and undergraduate women to make their first research presentation at a national meeting.

Sponsored by:
Eli Lilly & Company

For more information and an application form, please contact your department chair,

http://membership.acs.org/W/WCC/

or Cheryl Brown, 800/227-5558 ext. 6123
e-mail: wcc@acs.org
American Chemical Society
1155 Sixteenth St. NW; Washington, DC 20036

Deadline for receipt of applications for 2002 meetings:

February 15, 2002 - Meetings between July 1 & December 31, 2002

Toxicology Consulting

Medical Devices
Pharmaceuticals
Biologicals
Risk Assessments

Product Development
FDA Registration
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Northup RTS
Sharon J. Northup, PhD, DABT
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Highland Park, IL 60035
Ph: 847-579-0049 Fax: 847-579-0052
Northuprts@aol.com
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The site makes it easy for employers to manage all of their job ads, resumes, and candidates. Find valuable tips on how to recruit, hire and keep the best people, how to use telephone interviews as a recruiting strategy, and more. Simply go to http://www.JobSpectrum.org/postjobs and try JobSpectrum for yourself.

JobSpectrum is your online career and employment connection. For more information, go to the website or call toll free at 888-667-7988.

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January 25, 2002:  The Chicago Section American Chemical Society’s general meeting will be held at Manzo's Banquets in Des Plaines. Complete information will be in the January 2002 Chemical Bulletin.

January 29-30, 2002:  The 67th Annual Meeting of the Israel Chemical Society will take place at the Renaissance Hotel and Convention Center, Jerusalem, Israel. For further information, contact the secretariat at (972)-2-6520574 or meeting@isas.co.il.

February 22, 2002:  The Chicago Section American Chemical Society’s general meeting talk will be “Chemistry and its Teaching at the Turn of the Century: The Janus View” by Dr. A. Truman Schwarz, Macalester College, Saint Paul, MN. For additional information call the Section Office at (847) 647-8405 or http://membership.acs.org/C/Chicago.

March 22, 2002:  The Chicago Section American Chemical Society will have its Public Affairs meeting. The general meeting speaker will be Dr. Dennis Hjeresen, Director, ACS Green Chemistry Institute. For additional information call the Section Office at (847) 647-8405 or http://membership.acs.org/C/Chicago.

April 7-11, 2002:  The 2002 National ACS Spring Meeting will be held in Orlando, FL. For further information, call the National ACS office at (202) 872-6059 or send e-mail to natlmtgs@acs.org.

April 19, 2002:  The Chicago Section American Chemical Society’s general meeting talk will be “Science, Technology and US Foreign Policy” by Dr. Norman P. Neureiter, Science and Technology Adviser to the Secretary of State, Washington, D.C. For additional information call the Section Office at (847) 647-8405 or http://membership.acs.org/C/Chicago.

May 24, 2002:  The Chicago Section American Chemical Society will celebrate the presentation of the Willard Gibbs Award at the Argonne Guest House, Argonne National Laboratory. Stay tuned for further information as the date approaches.

June 2-4, 2002:  The Great Lakes Regional Meeting will be held in Minneapolis, MN. Stay tuned for further information as the date approaches.

June 21, 2002:  The Chicago Section American Chemical Society will present the Annual Education Night. Stay tuned for further information as the date approaches.

July 7-14, 2002:  The International Conference on Safety in Science and Science Education will be held at Sacred Heart University in Fairfield, CT. For more information, contact Dr. Babu George (georgeb@sacredheart.edu, (203) 371-7795) or Dr. James Kaufman (labsafe@aol.com, (508) 647-1900). Also see article in this issue.