

theCHEMICALbulletin

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JANUARY • 2006

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

January Dinner Meeting

FRIDAY, JANUARY 20, 2006

Manzo's Banquets
1571 S. Elmhurst Road
Des Plaines, IL
847-593-2233

DIRECTIONS TO THE MEETING

From the East: Take I-90 west. Exit Elmhurst Rd North. Go past first light (Oakton St.). The banquet hall is on your right.

From the West: Take I-90 east. Exit at Arlington Heights Road and turn right (south). Go to Higgins Road (Rt. 72). Turn left. Take Higgins east to Oakton St. Turn left and continue east to Elmhurst Rd. Turn left. The banquet hall is on your right.

From the North: Take 294 south to I-90 west. Exit Elmhurst Rd. North. Go past first light (Oakton St.). The banquet hall is on your right.

From the South: Take I-294 North to I-90-west. Exit Elmhurst Rd. North. Go past first light (Oakton St.). The banquet hall is on your right. Another way from the South is to take I-355 North to I-90 east. Exit Arlington Heights Rd. Turn right. Go to Higgins Rd. (Rt. 72). Turn left. Take Higgins to Oakton St. Turn left and go to Elmhurst Rd. Turn left. The banquet hall is on your right.

PARKING: Free

JOB CLUB 5:00 - 6:00 PM

SOCIAL HOUR 6:00- 7:00 P.M.
Cash Bar

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), **email**

(chicagoacs@ameritech.net), or **website** (<http://ChicagoACS.org>) by noon on Wednesday, January 18. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

MENU: Fresh Onion Soup, Garden Salad with choice of dressing, Entrée choices of Orange Roughy, New York Strip Steak, or Pasta Primavera, rolls and butter, Spumoni ice cream.

The cost is \$28 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$30. The cost to students and unemployed members is \$14. Seating will be available for those who wish to attend the meeting without dinner.

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

POP TOP RINGS COLLECTION

Instead of throwing away those pop top rings from your pop cans, please bring them to the dinner meeting so we can donate them to a program at Ronald McDonald House.

NOTICE TO ILLINOIS TEACHERS

The Chicago Section-ACS is an ISBE provider of professional development units for Illinois teachers. Teachers who register for this month's meeting will have the opportunity to earn up to 3 CPDU's.

GENERAL MEETING 8:00 P.M.



Dr. Catherine Middlecamp, Distinguished Faculty Associate, Department of Chemistry, University of Wisconsin-Madison

Title: "The Radium Girls and The Firecracker Boys"

Abstract: Our world always has and always will contain radioactive substances. But only in the past century did humans discovered radioactivity and put it to various uses. This presentation will interweave two stories of radioactivity in real-world contexts. The first concerns the radium dial workers, women who in the 1920s used radioactive paint to create glow-in-the-dark watches. The second relates to Edward Teller and other physicists who in the 1950s proposed to create a harbor in Alaska using thermonuclear devices (Project Plowshare). These topics connect with issues relevant both now and in the

(continued on page 2)

(continued from page 1)

years to come, and serve as examples of how to engage students by integrating chemistry and culture in the classroom.

Biographical Sketch: Catherine Middlecamp is a Distinguished Faculty Associate at the University of Wisconsin-Madison, holding a joint appointment in Chemistry and in the Integrated Liberal Studies Program. Her recent accomplishments include being elected as a Fellow of the AAAS (2003) and a Fellow of the Association for Women in Science (2004), receiving the Alliant Underkofler Excellence in Teaching from the University of Wisconsin System (2004), and being selected as the recipient of the 2006 ACS Award for Encouraging Women in Careers in the Chemical Sciences.

She has been a co-author for four editions of *Chemistry in Context*, a project of the American Chemical Society, including the upcoming 6th edition. She is a senior scholar for the national SENCER project, Science Education for New Civic Engagements and Responsibilities. She did her undergraduate studies at Cornell University (1968-72), graduating Phi Beta Kappa. She was awarded a Danforth Fellowship for graduate study and earned her doctorate in Chemistry from the University of Wisconsin-Madison in 1976.

REGISTER TO ATTEND MONTHLY SECTION MEETINGS

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CHICAGO SECTION'S AWARD - BEST OVERALL LOCAL SECTION'S MINORITY AFFAIRS COMMITTEE

Last year the Committee on Minority Affairs of the Chicago Section developed a presentation entitled "Careers in Chemistry" for high school students to provide information about careers and to encourage students to participate in Science Fairs. This presentation was taken to local high schools and the ICI Discovery Program at the University of Illinois-Chicago. The sessions included hands-on experiments. Information on Project SEED, ACS Scholars, and the Chemistry Olympiad was distributed and high school teachers were invited to become Chicago ACS Affiliates. The Minority Affairs Committee also provided judges for the Chicago Public Schools Science Fair.

DUPAGE AREA ENGINEERS WEEK 2006: WOMEN IN SCIENCE AND ENGINEERING

Events for the 22nd Annual DuPage Area Engineers Week will be held **Thursday, February 23 and Saturday, February 25, 2006** at Illinois Institute of Technology's Daniel F. and Ada L. Rice Campus at 201 East Loop Road in Wheaton. The theme for this year's event is Women in Science and Engineering.

The first DuPage Area Engineers' Week Open House was held in 1985 at Midwest College of Engineering in Lombard, Illinois. In 1986 Midwest College merged with Illinois Institute of Technology to form a new, west-suburban campus called IIT West, now the Daniel F. and Ada L. Rice Campus. Over the last sixteen years, the west suburban campus of Illinois Institute of Technology has hosted the annual Engineers Week celebration. The DuPage program is a joint effort among professional engineering and scientific societies, the two area national laboratories, businesses, educational institutions and community organizations.

The Thursday evening Speaker's Forum on February 23 is intended for an adult audience. The speaker will be Dr. Rodica Baranescu who will discuss the future of diesel and bio-diesel technology. Dr. Baranescu, from International Truck and Engine, is an expert in the field of diesel technology. The free talk will be preceded by a reception.

The Saturday event, February 25, is also free and is open to the public from 11:00 AM to 3:30 PM. Presentations are directed toward introducing students of all ages and their parents to the current state of technology and advances being made throughout industry. The cooperation of the professional engineering societies, academic organizations and industry provide a comprehensive overview of the current state-of-the-art as well as generating an interest in the sciences among the program's visitors.

Please join us for one or more of these activities. And check out our Web site from time to time to see what's new: www.rice.iit.edu/engineersweek/. For more information on the DuPage program, call 630.682.6040 or kozi@iit.edu.

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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In This Issue

Features

- 1 — Dinner Meeting
- 2 — 2005 Minority Affairs Committee Award
- 2 — DuPage Area Engineers Week 2006
- 3 — Science Camps for Young Women
- 4 — Editor's Editorial
- 4 — Chemical Bulletin Deadlines
- 5 — Chair's Letter
- 5 — 2006 Section's Officers
- 6 — 2005 Committees and Members
- 7 — 2006 Public Affairs Lecture
- 8 — Report on HBCUs
- 9 — Ad Rate Schedule
- 11 — Volunteer Form

In Every Issue

- 1 — Notice to Illinois Teachers
- 2 — Free T-Shirts
- 3 — ChemShorts for Kids
- 3 — Contact the Chair
- 4 — ALMA e-News
- 7 — Job Club
- 10 — Ad Index
- 12 — Calendar

"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 their science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary school teachers. It is hoped that teachers will incorporate some of the projects in this column into their lesson plans.

A Kid's Lava Lamp

Kids, did you ever want to try to make your own lava lamp? While real lava lamps rely on materials and chemicals for a more advanced age group, you can get a similar effect with simple household ingredients. Here is what you need: vegetable oil or baby oil, water, food coloring, glitter or small beads, and a glass jar with a lid. First, fill the jar about a third full of oil. Next, sprinkle on glitter, sequins, small beads, or any tiny sparklies that catch your eye. Add water to nearly fill the jar and add a drop or so of food coloring. Finish filling the jar with water, and then screw the lid on tightly. Flip the jar over. Flip it back. Shake it up. Have fun!

What's going on? The oil is less dense than water, so it wants to float on top. Water is a polar molecule, while oil is nonpolar. Polar molecules stick to each other, but not to nonpolar molecules. Even though oil and water are both liquids, they are what chemists call immiscible liquids. That's a fancy word that means they don't mix. When you add the food coloring, is it in the oil or the water? How can you tell? Is food coloring polar or nonpolar?

Try this variation. Let the liquids settle then open the jar and sprinkle a tiny bit of salt on top. What happens? Why? Salt is heavier than water, so when you pour salt on the oil, it sinks to the bottom of the mixture, carrying a blob of oil with it. In the water, the salt starts to dissolve. As it dissolves, the salt releases the oil, which floats back up to the top of the water.

How does a lava lamp work? Like your oil and water, the "lava" doesn't mix with the liquid that surrounds it. When it's cool, the lava is a little denser than the liquid surrounding it. When the lava rests on the bottom, the light bulb in the lamp warms it up. As it warms up, the lava expands a little. When it expands, the lava stays the same weight but it takes up more space, which means that it is less dense. When it's warm enough, the lava rises up to the top to

float. At the top of the lamp, it cools down, becomes more dense, and sinks once again. This cycle repeats over and over as the lava warms up and rises, then cools down and sinks.

A traditional lava lamp consists of a conical metal base with a 40-watt light bulb, and a teardrop-shaped glass container that fits snugly over the base and bulb. Inside this glass container is a combination of colored water or alcohol and a gooey substance consisting mostly of paraffin wax, carbon tetrachloride and mineral oil. There is also a little science lesson about emulsions and specific gravities in each lava lamp, but above all they offer us some fun!

Reference: Dr. Anne Marie Helmenstine at <http://chemistry.about.com/cs/howtos/ht/nontoxlavalamp.htm> and Michael Pollick at <http://www.wisegEEK.com/what-is-a-lava-lamp.htm>.

Eric Muller at <http://www.oozingoo.com/howto.html> gives the original patent as well as typical homemade mineral oil/alcohol versions.

EDITED BY K. A. CARRADO,
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All past "ChemShorts": <http://member.ship.acs.org/C/Chicago/ChmShort/kidindex.html>

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CONTACT THE CHAIR

Do you have any questions, suggestions, recommendations, ideas, gripes, complaints, or pet peeves relating to the Chicago Section? Do you want to volunteer, help out, or lend a hand with Section programs or activities? Then contact your Chair. Simply log onto the Section's Web Page at <http://chicagoacs.org>, 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 4,800 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. But you can also make it fail by not being involved. I look forward to hearing from you.

BARBARA MORIARTY
CHICAGO SECTION CHAIR

SCIENCE CAMPS FOR YOUNG WOMEN

AT&T, Loyola University, and College of DuPage host free science and math summer camps for teen-aged girls. In 2005, the summer program was themed "AT&T Camp Infinity: Young Women in Science and Technology Equals Endless Possibilities".

These free summer camps for qualified Chicago-area girls aged 15 to 17 provide hands-on experience working with science and technology. The girls have a chance to meet and interact with women who have parlayed a scientific education into rewarding careers. Loyola University has had a program since 2001.

For more information, visit <http://campinifinity.cs.luc.edu> for the Loyola University camps and www.cod.edu/campinifinity for the College of DuPage camps.

EDITORIAL

Welcome to the January 2006 issue of *The Chemical Bulletin*. We hope you had a good holiday season and are looking forward to a new year of information related to chemistry and chemists in the Chicagoland area.

Among the items in this issue, you will find photos of our new officers, a list of our various 2005 committees and members, our Section's Volunteer Form, and our Chair's letter. Our "**ChemShorts for Kids**", written by Kathleen Carrado of Argonne National Laboratory, is our long-running feature column and continues to be our most popular regular column.

Other columns that range from "regular" to "periodic" are the following: our "**ALMA e-NEWS**", written by Wayne Collins, a member of the Analytical Laboratory Managers Association (ALMA); Russ Johnson's "**Profiles in Chemistry**" highlighting Chicago-area chemists who have had an impact on chemistry in Chicagoland, Russ Johnson's "**Invented in Chicago**", highlighting chemical innovation in the Chicago metropolitan area; and our Women Chemists Committee's "**WCC Column**", written by our Section's women chemists about women chemists.

Keep in mind that the WCC column is not limited to female contributors only! So if you would like to write an article about a particular female chemist (either a current or historical one), contact one of the WCC Co-Chairs, Margy Levenberg ([mlievenberg@stepan.com](mailto:mlevenberg@stepan.com)) or Susan Shih (shihsu@cdnet.cod.edu) to get you on the schedule, and send your article to me.

Be sure to read the listing of upcoming events in the Calendar on the back page of this and every issue. If you know of a meeting, course, or other scientific activity that would be of interest to Section members, send the information to me for inclusion in the Calendar.

With each issue, we keep in mind our commitment to ACS, the Chicago Section's mission, and the goal of being one of your connections to chemistry-related information in the Chicagoland area and from ACS National.

If you have an idea for a new column, let me know. Keep in mind that any regularly featured column needs a regular contributor.

We continually need advertisers to maintain the vitality of *The Chemical Bulletin*. Use this publication as a way of learning about your suppliers and colleagues and to advertise your own business. Our rates are reasonable and we reach out to 4,800 readers. We accept ads for products, services, and employment opportunities. If you are interested or you know of someone

interested, call the Section office at 847-647-8405.

We look forward to receiving articles for publications. While we can not guarantee which issue your article will appear, we try to publish submissions as timely as possible.

CHERLYN BRADLEY, EDITOR
(cbrad1027@aol.com)

ALMA E-NEWS

Chemical Hygiene Officer

Most laboratories have a staff member designated as a Chemical Hygiene Officer as either a secondary or full-time responsibility. This position is mandated by the U.S. Occupational Safety and Health Administration (OSHA) Laboratory Standard which requires that the individual be "qualified by training or experience to provide technical guidance...". Duties defined in the Standard include 1) development, implementation, and improvement of the Chemical Hygiene Plan, 2) monitoring the procurement, use, and disposal of chemicals, 3) knowing the legal requirements of regulated substances in the lab, 4) conducting audits and performing evaluations, and 5) developing a safe working environment.


This function carries a legal responsibility as the company's representative for laboratory safety and the individual assigned should be given full management support to develop as a safety professional. A thorough knowledge of OSHA's general industry standards is essential in ensuring compliance with federal, state, and local regulatory requirements. It is also important for the lab manager to provide staff resources to assist in this function and to react positively to any safety issues uncovered during the audits or evaluations.

As we plan for the year, make sure that the importance of this function is not overlooked. Reinforce your expectations and the legal obligations by defining objectives with your Chemical Hygiene Officer.

If you have any comments, cost saving suggestions, or opinions, contact me at the email address below.

Past ALMA (Analytical Laboratory Managers Association) e-News editions by Dr. Wayne Collins, a former ALMA President, are available at the website <http://www.labmanagers.org/>. This one is from the January 2001 edition.

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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.

2006 Issue	Deadline
March	January 20
April	March 3
May	March 24
June	April 28
September	August 4
October	August 25
November	September 22
December	October 13

CHAIR'S LETTER

Today, Tomorrow and Beyond

I am honored to be elected as Chair of the Chicago section of the American Chemical Society. Many of you may remember that I was chair about eight years ago. In the past few weeks, I have been reflecting upon the changes that have occurred during that time, and what these changes can mean toward our Section in 2006.

I think that one of the biggest changes between then and now is the world wide web. When I started as chair, the Chicago section did not yet have a website. Thanks to our webmaster, Milt Levenberg, we have a very useful website, which you can easily access at www.chicagoacs.org. In many respects this is the fastest and easiest way to get information on what is going on in the Chicago Section. However, we need to do more to provide programs and services for our members

TODAY, using the technological advances of the last eight years. I think we should provide some of our programs by web casting the meetings, or using some other more recent technology.

The Chicago section has been a leader in influencing the legislative bodies that make our laws, which govern this state and country. This is in large part due to the efforts of Jim Shoffner. However, I believe that we should continue these efforts and involve as many Section members as possible in communicating with our legislators, both at the national and state level. In addition, projects to improve the general public's impression of chemistry, such as Chemistry Day, DuPage Engineers Week and the State Fair project, should be continued. Finally, we should get involved with Earth Day. These efforts should help our membership TOMORROW.

Finally, we all know that the future is the children. The Chicago section

must continue its efforts to promote science literacy in our society. We have many fine programs to attract kids to chemistry, which should be continued and expanded so that more people can have access to these programs. The November meeting was the yearly Education meeting at Loyola. The high school scholarship winners were all very impressive and seeing these young people was truly inspiring to me. Thanks to the High School Education committee, headed by Ami LeFevre and Ann Levinson for all the good work they do. In addition, college students from Loyola presented posters showing their work. Again, thanks go to the College Education chair, Charles Cannon, as well as the students and faculty of Loyola. We need to continue these efforts, as well as expand efforts to the younger kids.

BARBARA MORIARTY
CHICAGO SECTION CHAIR

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The many programs and services of your Section are provided by the volunteers of the various committees of the Section. Each year we acknowledge the members of the Section's Standing, Board-appointed, and Ad hoc committees. Thanks to all of you who volunteered your time and talents during the 2005 term.

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(continued from page 6)

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JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on **Friday, January 20 at 5:00 p.m. at Manzo's Banquets**. The meeting will include a review and discussion of some of the 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 seeking.

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group has 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's dinner meeting following the Job Club, the cost is \$14 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

Also, the Chicago Section's website has a link to the Job Club's yahoo job forum group. If you can't attend the Job Club, you can still find out about job openings and other information.

2006 PUBLIC AFFAIRS LECTURE

Dr. Harinder Singh, Louis Block Professor and Investigator in the Howard Hughes Medical Institute of the Department of Molecular Genetics and Cell Biology, The University of Chicago, will give the Public Affairs Lecture on Friday, March 17, 2006 at the Café La Cave. He will talk on the various issues that surround the science and technology of stem cells.

NATIONAL AWARDS - CALL FOR NOMINATIONS

The American Chemical Society Awards Program is one of the means by which the Society meets its obligation "to encourage...the advancement of chemistry in all its branches, the promotion of research in chemical science and industry, [and] the improvement of the qualifications and usefulness of chemists." The continuing excellence of the ACS awards program requires that a number of highly qualified chemistry professionals be nominated and that great care be taken in preparing the nominations.

Nominating Procedure for ACS National Awards

Nominations for 56 national awards administered by the ACS to be presented in 2007 are being solicited.

- Forms for nominations and supporting information, and a detailed description of ACS national awards are available at <http://chemistry.org/awards>.
- Any individual may submit a nomination for an award, unless that individual is a member of the selection committee for the same award. However, selection committee members may submit nominations for other awards.
- Nominations and inquiries concerning awards should be directed to the Office of the Awards Programs, awards@acs.org.
- **The deadline date for all nominating material for 2007 ACS National Awards is February 1, 2006.** Earlier transmittal is encouraged.

ACS DIRECTORY OF GRADUATE RESEARCH 2005

The American Chemical Society ACS Directory of Graduate Research 2005 is the most comprehensive source of information on faculty and their research at departments of chemistry, chemical engineering, biochemistry, polymers and materials science, marine science, toxicology, medicinal/pharmaceutical chemistry, and environmental science in the U.S. and Canada. It lists faculty member biographical information, area of specialization, titles of all papers published within the last two years as well as faculty and department contact information. Published in odd-numbered years by the ACS Committee on Professional Training, the 2005 edition of the Directory contains current faculty information for the 2005-2006 academic year. The DGR 2005 (item 39753, US \$89 each) can be ordered from the ACS Office of Society Services or the ACS Online Store. For more information, call 1-800-227-5558 or 1-202-872-4600, or send e-mail to help@acs.org.


DGRweb, the searchable, online version of the DGR, is now available free of charge at <http://chemistry.org/education/DGRweb>. Also new to DGRweb 2005 are the upgraded interface and functionality which allow advanced searches for both faculty and institutions. Search for faculty includes specific research area, academic rank, gender, and state, and the search results produce complete contact information for faculty including direct links to faculty email addresses and web pages. Institutional searches provide all departmental contact information along with statistical data on the number of faculty and students in the department and a complete list of faculty active in graduate research. DGRweb 2005 also includes access to the complete 1997, 1999, 2001, and 2003 databases.

REPORT RELEASED ON HBCUs

The Committee on Professional Training's report on "Workshop on Historically Black Colleges and Universities (HBCUs) and African American-Serving Institutions" is now released.

The Committee on Professional Training (CPT) conducted a workshop focused on increasing participation of African American undergraduates in chemistry and understanding the barriers to obtaining ACS approval of chemistry programs at HBCUs and African American-serving institutions. The primary focus of this workshop was how to better utilize the ACS approval process for undergraduate chemistry programs to both increase the number of HBCUs and other African American-serving institutions holding ACS approval and to aid in the recruitment and retention of African-American undergraduate students in chemistry.

The workshop generated many insightful recommendations for specific actions that could be taken either by CPT or by other governance groups within the ACS to advance undergraduate education of African Americans in chemistry. The report from this workshop can be downloaded from the CPT website at <http://chemistry.org/education/cpt> or ordered at no charge from the Office on Professional Training at cpt@acs.org or (202) 872-4589.



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ANALYSIS FOR THE CHEMICAL ELEMENTS

ACS NEWSLETTERS AND ALERTS

Use the chemistry.org to access electronic newsletters and alerts published by various committees and departments within ACS. Included on this list are links to chemistry.org's weekly newsletter, *C&EN Online*, *Community Coordinator News*, *Chemunity News* and several others.

ACS Newsletters & Alerts

Email newsletters

- Each week, chemistry.org sends out an e-mail newsletter alerting readers to new content on the site and relevant promotions.
- Continuing Education offers a bi-monthly *ACS Short Courses* newsletter. The newsletter includes information about new courses, changes to the short courses calendar, and special offers.
- Every other month the Education and International Activities Division sends out *Chemunity News*, an e-mail newsletter informing readers to new content on the education pages and relevant promotions. If you would like to subscribe to this newsletter, please contact education@acs.org.
- The ACS Office of International Activities in the Division of Education and International Activities recently established the *Boletin Latinoamericano*, a bimonthly e-mail newsletter connecting chemistry professionals with interests in Latin America. It is bimonthly and is offered on an opt-in subscription basis by sending an e-mail to b_miller@acs.org.
- *Leading Together* is a quarterly newsletter specifically for Local Section Officers.
- American Chemical Society Student Affiliates Program *FANmail* is an email newsletter from the Faculty Advisor Network.
- *Community Coordinator News* is a quarterly newsletter that keeps you up to date on all of the offerings of the Office of Community Activities and the Committee on Community Activities.
- *C&EN Online* offers a weekly Table of Contents e-mail. To subscribe, send an e-mail to webmaster.cen@acs.org. Readers

can also sign up for a PDA version of C&EN. This free service is provided through AvantGo.

Alerts

- ACS ProSpectives Conferences offers automatic updates on upcoming conferences through New Conference Alerts.
- ACS Publications provides FREE E-mail Alerts. Sign up to receive FREE e-mail notification of articles published on the Web as either ASAP Alerts or Table of Contents Alerts.
- The Green Chemistry Institute International E-mail Network provides a rapid communication tool for green chemistry researchers, educators, government officials and interested members of the public. To join, send an e-mail to gci@lanl.gov.

Print Newsletters

- The Committee on Professional Training offers a newsletter to provide updates on Guidelines for Undergraduate Chemistry Programs.
- The *Capitol Connection* is published to keep its subscribers informed about legislative and regulatory activities.

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 4,800 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

SIZE	DIMENSIONS	RATE
Full Page	7.5" wide x 10" depth	\$700
2/3 Page (2 columns)	4.917" wide x 10" depth	\$530
1/3 Page (1 column)	2.333" wide x 10" depth	\$360
1/2 Column	2.333" wide x 5" depth	\$190
Business Card	3.5" wide x 2" depth	\$95

For more information, contact chicagoacs@ameritech.net or call 847-647-8405. Fax insertion orders to 847-647-8364.

YOUNGER CHEMISTS COMMITTEE NEWSLETTER

News Flash: The YCC Newsletter Has Gone Electronic!

The ACS National YCC newsletter will only be sent electronically. Sign up for our e-mail notification system! It's easy-just visit our Web site and follow the signup link! Even if you choose not to receive our e-mails, you can always read the newsletter on our Web site, chemistry.org/ycc
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To obtain more information or to register online for a course, go to <http://chemistry.org/elearning> or call (800) 227-5558, ext. 4508 or (202) 872-4508.

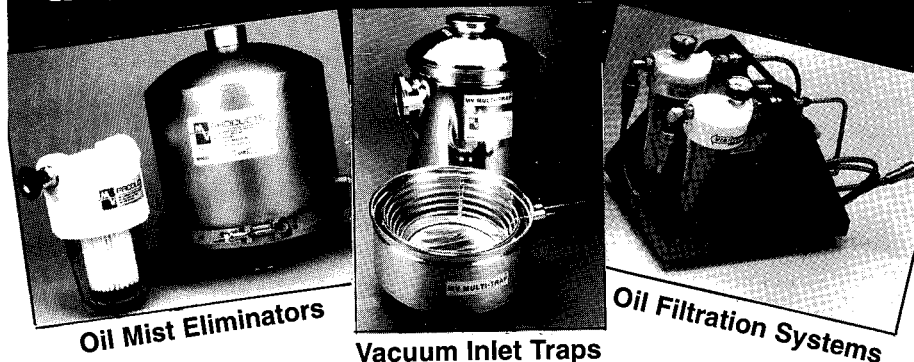
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- Effective Technical Writing
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- Gas Chromatography Basics
- HPLC Basics
- Infrared Spectral Interpretation, Basic
- Infrared Spectral Interpretation, Intermediate
- Infrared Spectral Interpretation: Special Topics
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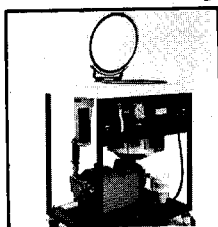
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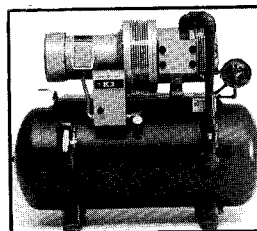


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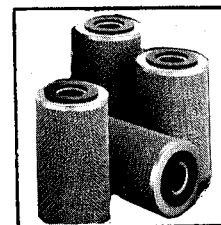
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2006 CHICAGO SECTION ACS VOLUNTEER FORM

I am interested in working on the following Committees. Indicate preference, if any, by a 1, 2, etc. Return to Chicago Section Office, 7173 N. Austin, Niles, Illinois 60714. Or fax to (847) 647-8364.

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- Awards** — Determine local section nominees for various ACS and local awards; assemble information and make formal nomination.
- Bulletin Advertising** — Assist Publications Business Manager in contacting possible advertisers; follow through on advertising leads; suggest ad solicitation programs.
- Chemical Bulletin Editorial Staff** — Solicit possible articles; write articles.
- Chemistry Day** — An annual 1-day or weeklong event depending on year. Serve on committee making plans for the event, as a judge for the educational portion, guide, hospitality table, demonstrator, helper, exhibitor, etc.
- Chicago School Board Liaison** — Interface with the Chicago School Board to improve chemical education; assist with special teacher programs.
- Education, Elementary** — Assist in promoting science education at the pre-high school level.
- Education, High School** — Prepare and administer annual scholarship examination; arrange teachers conference and other programs connected with teaching high school chemistry.
- Education, College** — Run annual undergraduate student symposium; maintain liaison with ACS Student Affiliates.
- Education, Continuing** — Determine and present programs that keep the practicing chemist informed of recent developments in the various fields of chemistry.
- Election Tellers** — Count election ballots on day of the Section meeting in October.
- Employment** — Recommend how section can provide employment assistance; initiate new programs; advise applicants with job difficulties.
- Endowment** — Solicit funds for annual scholarship awards; work on drive to establish permanent scholarship fund through individual member contributions.
- Environment & Laboratory Safety** — Study, correlate and publicize matters relating to chemical safety.
- Gibbs Arrangements** — Help the Gibbs Arrangements Chair to secure the award dinner meeting location, plan the menu, order flowers, wine, appetizers, and music, arrange transportation and hotels for the speakers and VIP guests, arrange for publicity and registration.
- Hospitality** — Assist at Section meetings by greeting new members; initiate programs to improve hospitality; handle special parties.
- House** — Secure monthly dinner meeting locations, run the registration table at monthly dinner meetings, secure/run projection equipment at Section meetings; assist in maintaining equipment inventory, etc.
- Membership** — Devise programs for getting new members; advise applicants for membership and investigate qualifications; make recommendations to ACS Admissions Committee.
- Middle School/Jr. High** — Assist Grades 6-9 by providing teaching aids and science related materials.
- Minority Affairs** — Give support and commitment to the development of an action agenda to stimulate and strengthen the participation of all minorities at all levels in chemistry. Devote attention to mentoring, encouragement, and the intellectual and professional enhancement of students, teachers and practicing chemists of all ages and interest levels.
- Nominating Committee** — Help solicit nominations for slate of Section election; assist in preparing slate of candidates.
- Professional Relations** — Investigate member complaints on unethical practices, monitor layoffs, and suggest new programs to improve status of chemists.
- Project SEED** — Become a mentor and/or help find mentors to high school students desiring to do summer research.
- Program** — Establish overall program policy; contact speakers; hospitality to speakers.
- Public Affairs** — For all who are concerned about the interrelation between chemistry and chemists, social responsibilities, government and the environment.
- Public Relations** — Promote the Section's activities to the general public via public media.
- State Fair Committee** — Help in our coop tent with fellow IL sections to promote the positive and fun aspects of chemistry to the public at the Illinois State Fair.
- Women Chemists Committee** — Help promote the Section's activities in attracting, developing, and promoting women in the chemical sciences Younger Chemists Committee- Help current programs and devise new ones of interest to younger chemists; encourage recruiting and retention of younger chemists.
- Your Suggestions** — How would you like to help?

CALENDAR

January 21-26, 2006: Lab Automation 2006 will be held in Palm Springs, CA. For more information, go to labautomation.org/LA/LA06.

February 8, 2006: Chicago Section's joint Dinner Meeting with AIChE. Note that this meeting is on a Wednesday.

February 23 & 25, 2006: DuPage Area Engineers Week at Illinois Institute of Technology's Daniel F. and Ada L. Rice Campus at 201 East Loop Road in Wheaton. The theme for this year's event is Women in Science and Engineering. **See article in this issue.**

March 12-16, 2006: PittCon 2006: Orange County Convention Center, Orlando, FL. For further information, go to www.pittcon.org or call (412) 825-3220.

March 17, 2006: Chicago Section's Public Affairs Dinner Meeting at the Café La Cave. Dr. Harinder Singh, Louis Block Professor and Investigator, Howard Hughes Medical Institute of Department of Molecular Genetics and Cell Biology, University of Chicago, will give the Public Affairs Lecture on the various issues that surround the science and technology of stem cells.

March 24, 2006: ALMA Chicagoland Meeting will be held at UOP in Des Plaines, IL starting at 11:30 a.m. and concluding by 4 p.m. The topic will be: "BRING YOUR PROBLEMS TO ALMA." At this meeting, please be prepared to discuss 3 problems with your colleagues. For further information, contact Dave McDonald (847-970 5262, dmcDonald@usg.com).

March 26-30, 2006: The 231st ACS National Meeting, Atlanta, GA.

April 28, 2006: Chicago Section Lunch Meeting.

May 13-18, 2006: American Industrial Hygiene Conference and Exposition, Chicago. For more information, go to <http://www.aiha.org>.

May 19, 2006: Chicago Section's Gibbs Award Banquet Meeting.

May 31-June 2, 2006: The Great Lakes Regional Meeting, Hyatt Regency Hotel, Milwaukee, WI. The theme is "A Festival of Chemistry in the City of Festivals".

June 23, 2006: Chicago Section Dinner Meeting.

September 10-14, 2006: The 232nd ACS National Meeting, San Francisco, CA.

September 29, 2006: Chicago Section's Education Night/Dinner Meeting.

October 20, 2006: Chicago Section/Northwestern University joint Dinner Meeting. This is the Basolo Medal Award and Lecture meeting.

November 17, 2006: Chicago Section Dinner Meeting.

December 8, 2006: Chicago Section's Holiday Dinner Party and Meeting.

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