

theCHEMICALbulletin

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APRIL • 2006

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Monthly Meeting

FRIDAY, APRIL 28, 2006

(NOTE THIS IS A LUNCH MEETING)

Hackney's on Lake
1514 East Lake Avenue
Glenview, IL 60025
847-724-7171

DIRECTIONS TO THE MEETING

From Chicago: Take I-94 (Edens) north toward Milwaukee. Exit at Lake Avenue going west to Hackney's which will be on your right. If you cross Waukegan Road you have gone too far.

From the Northern Suburbs: Take I-294 south to the Edens spur (I-94 east) and exit on Waukegan road. Take Waukegan south to East Lake Avenue and turn left. Hackney's is on the left side of the street.

From the South and Western Suburbs: Take I-294 north to Dempster and exit eastbound. Take Dempster east to Waukegan Road and turn left. Continue north on Waukegan Road to East Lake Avenue and turn right. Hackney's is on the left side of the street.

PARKING: Free

JOB CLUB 11:00 A.M.

SOCIAL HOUR: 11:15 A.M.

LUNCH 12 NOON

Lunch 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 **online** (<http://chicagoacs.org>) by noon on Tuesday, April 25.

The lunch cost is \$20 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is

\$22. The cost to students and unemployed members is \$10. Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

MENU: Entrée choices:

The Famous Hackneyburger

Since 1939, the Hackneyburger has been prepared in the same classic manner: the finest ground beef, never frozen; their famous dark rye or bun baked fresh every day in their own bakery with no preservatives; cole slaw prepared from their own recipe; raw onions, and French fried potatoes.

Strawberry Spinach Salad with Chicken Breast

Crisp spinach leaves topped with fresh strawberries and tossed with Chicken Breast Julienne and roasted pine nuts. Served with your choice of poppy seed or raspberry vinaigrette dressing.

Grilled Fresh Vegetables over Penne Pasta

Grilled fresh vegetables served over a bed of seasoned Penne pasta. Served with garlic bread and Parmesan cheese. One of their most popular pasta dishes.

All of the above entrees include unlimited soft drinks and coffee, and a chocolate sundae for dessert.

GENERAL MEETING 1:00 P.M.

Presentation of the 50-YEAR AWARDS

The Chicago Section honors our fifty-year members. (see page 6)

Presentation of the 2006 DISTINGUISHED SERVICE AWARD to: L. Jewel Nicholls (see page 5)

GENERAL MEETING SPEAKER



Professor Mark Ratner, Morrison Professor of Chemistry, Northwestern University, Evanston, IL

Topic: "Nanotechnology 301"

Abstract: The talk will outline what is new and fun in nanoscale science, looking at the problems and promises through a chemical lens. Details are not on the menu, but themes and promises are.

Biography: Mark Ratner received his B.A. and Ph.D. from Harvard and North-

(continued on page 2)

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.

(continued from page 1)

western University, respectively. He is currently Morrison Professor of Chemistry and Professor of Materials Science and Engineering at Northwestern University. He is interested in structure and function at the nanoscale level and the theory of fundamental chemical processes. He tries to bring together structure and function in molecular nanostructures, based on theoretical notions, exemplary calculations, and (very importantly) collaborations with experimentalists and other theorists in the US and around the world. Some areas of interest are molecular electronics, electron transfer, self-assembly, nonlinear response in molecules, and theories of quantum dynamics. In the interstices, he spends as much time trout fishing as he possibly can.

Mark is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the International Academy of Quantum Molecular Sciences and the Royal Danish Academy of Sciences. He has received the Langmuir Award from the American Chemical Society and the Feynman Award from the Foresight Institute. He has also been a member of the Faculty Teaching Honor Roll at Northwestern eleven times, and has taught roughly five thousand students in General Chemistry in the last dozen years.

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CLIMATE CHANGE FORUMS

The Adler Planetarium and Astronomy Museum is presenting a series of public forums throughout the metropolitan Chicago area that brings together a coalition of informal learning institutions, universities, corporations and professional groups to create a continuing community dialogue about the prospects for climate change including historical evidence, magnitude, policy implications and remediation. The Chicago Section of the American Chemical Society is part of this coalition. Current public debate illustrates the need for informed citizens to understand the scientific data and models that underlie estimates and predictions for humanities effect on our planet.

Funded by NASA's Earth Explorers Institute, these forums bring leading scientists, policy makers, and interested citizens together to explore the issues surrounding global climate change.

Forum 3: "Human Footprints: The Impact of Science, Policy and Technology on Climate Change"

Northwestern University - Chicago Campus
April 22, 2006 Time: 10am - 12pm

Forum three will explore how humans impact our planet and its resources, how microclimates affect the causes and transmission of disease and therefore what consequences we face as a society. Discover how satellite data and modeling techniques are helping to determine society, domestic and international policy responses to the issues we face regarding our long-term energy commitments.

Guest Speakers include: Dr. Michael Schlessinger - University of Illinois at Urbana-Champaign

Forum 4: "How Can We Continue to Meet Our Energy Needs without Jeopardizing our Future"

Chicago Cultural Center
June 3, 2006 Time: 10am - 12pm

Forum four will explore energy issues we currently face and potential remedies to reduce emissions over the next century. The Director of Argonne National Laboratory, Bob Rosner, will discuss solutions to the problem and how Argonne is moving towards cleaner energy production. Also hear from Former CIA Director James Woosley, how climate change affects issues of national security, and from world-

renowned architect William McDonough, how the future of architecture and "green building" can lead to more energy efficient designs.

Guest Speakers Include: Bob Rosner
- Director of Argonne National Laboratory

CALL FOR WCC OVERCOMING CHALLENGES AWARD NOMINATIONS

The Overcoming Challenges Award (OCA) acknowledges the efforts of women and undergraduates who have overcome economic, personal, and/or academic hardships in pursuit of an education in the chemical sciences. The award consists of a plaque, a \$250 honorarium, and \$1,000 for travel expenses to the fall ACS National Meeting where the award is presented. Award candidates must be women matriculating as an undergraduate chemical science major/minor in a two-year program or at a four-year school not granting a doctoral degree in chemical-related disciplines.

Nominations are due May 1, 2006, and should be sent to: Women Chemists Committee, American Chemical Society, 1155 16th Street, N.W., Washington, DC 20036. For additional information, contact the WCC at wcc@acs.org or visit <http://membership.acs.org/W/WCC>.

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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 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.

Metal Mania - Part II

Kids, have you ever seen a copper-colored nail? In this month's activity, you will make one of your own. First, you will need the solution left over from last month's experiment (Metal Mania - Part I). If you didn't save the solution or if it has degraded, have fun repeating that experiment now!

While you are waiting for the pennies to do their thing on the paper towels, use the salt and vinegar solution to make some "Copper Plated Nails". Place one clean ungalvanized iron screw or nail so that it is half in and half out of the solution you used to clean the pennies. If you have a second nail or screw, let it sit out on a counter for comparison (your "control experiment"). Do you see bubbles rising from the nail or the threads of the screw? Allow 10 minutes to pass and then take another look. Does the metal have two different colors? If not, return the nail or screw to its position and check it again after an hour.

Eventually, the copper in the solution from the pennies will coat the nail or screw. How does that happen? Copper exists in the salt/vinegar solution as positively charged copper (II) ions. The reaction between iron metal and copper (II) ions is called an oxidation-reduction reaction. Iron is more active than copper in this reaction, which means it loses electrons more easily than Cu. In other words, copper(II) will take iron's electrons, causing it to plate out as metal (it is "reduced") on the iron nail (which gets "oxidized"). At the same time, the reactions involving the hydrogen ions from the acid and the metal produce some hydrogen gas, which bubbles up from the site of the reaction (the surface of the nail or screw). When you take the nail out of the solution, the copper will be somewhat sticky; you can set it on a paper towel to dry. Your nail might not be entirely coated, but it will have enough copper on it to see. You might try this experiment again using only pennies made before 1982. These contain 95% copper as opposed to only 2.5% Cu in pennies since then.

Did the nail get a copper coating more quickly or in the same amount of time? Was it a more complete coating?

What happens if you use a stainless steel nail? Come to think of it, what exactly is "stainless" steel? First, steel is iron with some carbon added to make it harder and stronger. Adding a minimum of 12% chromium to the steel makes it resist rust. In other words, the chromium makes it stain "less" compared to other types of steel. The chromium combines with oxygen in the atmosphere to form a thin, invisible layer of chrome-containing oxide, making a passive film. So, what does that tell you to expect from a copper plating experiment using a stainless steel nail?

NOTE: The accompanying photo on the website version of this article shows two types of iron nails and their controls; one was placed entirely in the solution and the other was in 1/3 of the way.

Reference: Dr. Anne Marie Helmenstine at <http://chemistry.about.com/cs/demonstrations/a/aa022204a.htm> and <http://www.hometrainingtools.com/articles/metals-iron-conductivity-science-projects.html>

EDITED BY K. A. CARRADO,
ARGONNE NATIONAL LABORATORY

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

IRVING M. KLOTZ MEMORIAL SYMPOSIUM

Northwestern University will have a memorial symposium in honor of the late Professor Irving M. Klotz, a long time member of the faculty and of the ACS, on April 26 and 27 at the Allen Center at Northwestern University, Evanston, IL. The symposium will start with a tour of the Nanotechnology and Pancoe buildings at 4:00 PM on Wednesday, April 26. There will be a social hour at the Allen Center at 5:30 PM before dinner, with dinner served at 6:30 PM. A program will follow at 8:00 PM. The scientific symposium will take place Thursday, April 27 at the Allen Center.

You must register to attend the symposium. Register before April 15 at <http://www.chem.northwestern.edu/~klotz/register.php>. For further information, go to the Calendar of Events on the Chicago section's homepage at <http://chicagoacs.org> or go to <http://www.chem.northwestern.edu/~klotz/>.

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WILLARD GIBBS AWARD DINNER

Please save Friday May 12, 2006 for the Gibbs Award Dinner at Chateau Rand, 900 E. Rand Road, Des Plaines, IL. See reservation coupon and details on the section's website. Cost is \$40. Send check to the section's office.

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ALMA E-NEWS

Dangerous Chemicals

The general public sometimes views the laboratory as a repository of dangerous chemicals with immense risk to anyone unfortunate enough to have to work in such an environment. Many of us remember the old days when this impression was not too far from the truth, but the modern laboratory of today is a far different place. Industry initiatives and governmental regulations to improve the health of workers and to clean the environment have given us extensive information about the materials that we work with and have helped to raise awareness of the potential dangers.

A wide variety of resources are available that describe the dangerous properties of specific compounds so that the common types of explosive, reactive, and flammable compounds are well documented. Functional groups associated with these properties are well known so that it is possible to predict the potential for serious accident. Only toxicity remains as an unpredictable danger. The long and short-term effects of exposure to most chemicals are usually inferred from animal studies as there are only weak fundamental principles upon which to base predictions of toxicity. Given this situation, prudent lab practice dictates that unless there is very well established evidence that a chemical is innocuous, the following precautions should always be followed:

- Assume all chemicals encountered in the laboratory are toxic to some degree.
- Treat any mixture of chemicals as potentially more toxic than its most toxic component.
- Treat all new compounds or those of unknown toxicity as though they could be acutely toxic in the short run or chronically toxic in the long run.

We should manage this remaining risk by cultivating a culture where chemicals are handled with respect and take a very conservative approach in limiting personnel exposure to all chemicals in our labs.

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 articles by Dr. Wayne Collins, a former ALMA President, are available at the website <http://www.labmanagers.org/>. This one is from the July 2001 edition.

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L. JEWEL NICHOLLS RECEIVES THE DISTINGUISHED SERVICE AWARD

The 2006 Distinguished Service Award will be presented to L. Jewel Nicholls at the April 28 Chicago Section's luncheon meeting at Hackney's on Lake.

The Distinguished Service Award was established in 1974 at the suggestion of Louis L. Lerner, who was editor of *The Chemical Bulletin*. It was established to recognize members of the Chicago Section ACS who have provided outstanding and devoted service to the Section.

Here is a list of Jewel's vast service to the Section. A fuller biography will be presented in the next issue.

Jewel was Chicago Section Chair 89-90; Chair-Elect 88-89; Vice-Chair 85-86; Treasurer 84-85; Director 82-84, 83-85; Budget Director 90-91; Continuing Education Chair 88-90; Program Chair 82-83; Topical Groups Chair 83-84. She served as an active member of the following committees: Long Range Planning 77-78; National Affairs 90-91; Nominating 79, 80, 81; Office Affairs 90-91; Policy 86-91; Campaign for Chemistry 89, 90; High School Education 87; Continuing Education 79-82, Endowment 89, Gibbs 73-84, 86-89; Hospitality 69-73; House 89; *Chemical Bulletin* editorial 77-82; Safety 77-88; Chicago School Board Liaison 90-91; Chemistry Day 87-90.

Please join us on April 28 as we honor Jewel Nicholls with the 2006 Distinguished Service Award for meritorious service to the Chicago Section.

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.

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
See you on the Internet!

WCC COLUMN

Members of the Chicago Section's Women Chemists Committee (WCC) are developing outreach plans for Chicago Area section members and the community. These plans include a column in *The Chicago Bulletin* covering topics such as networking, career development, and vignettes of women in chemistry. This month's topic is about **Dr. Jean'ne M. Shreeve**

—

Dr. Jean'ne M. Shreeve is currently Professor of Chemistry at the University of Idaho in Moscow, Idaho. Jean'ne has been at the University of Idaho for 45 years and still enjoys working 80 plus hour weeks. Currently, she is only doing chemical research. Each day she enjoys finding out "What has happened since yesterday?" At the University of Idaho, Jean'ne has held many positions. She started teaching chemistry and doing chemical research. She later became Head of the Chemistry Department and then Vice President for Research.

This Montana native received her B.A. from the University of Montana. She then received her Master's at the University of Minnesota and her Ph.D. from the University of Washington in Seattle. Jean'ne says she entered the field of chemistry because of her high school chemistry teacher and she entered the academic side of chemistry because it never occurred to her to do anything else. She does chemical research because it is fun! When asked what she enjoys most about her work, she said "my co-workers and the idea that sometimes my ideas DO work out as I predicted!"

Her future plans are to continue to work in chemistry the long hours that she is currently doing. Her mentor is still coming in every day at the age of 95 and is still active in chemistry. She feels that it is important for everyone (regardless of gender, color, or country of natural origin) to do what he or she wants to do. All talented persons should be welcomed to enter the interesting field of chemistry and contribute.

Dr. Shreeve has been active in the American Chemical Society and served in many roles at the local and national level. She has held several offices within the Washington-Idaho Border Section, including Section Chair. At the National level, she has been Chair and Councilor for the Fluorine Division, a councilor of Region VI from 1985-93 and has served on a number of National committees. Jean'ne Shreeve has also served on the Board of Directors of

the National American Association for the Advancement of Science (AAAS) and held offices in the Chemistry Division of AAAS.

Many of you are familiar with Dr. Shreeve as an important fluorine chemist. During one ACS meeting, I was waiting outside to hear her speak. I asked a gentleman who the next speaker would be and I was told, "She will speak when this person finishes". I then asked him if the speaker was to be Dr. Shreeve and was told "there is only one SHE in fluorine chemistry".

Her honors are many and some of them include receiving the Garvan Medal from the ACS and National Honorary Membership from Iota Sigma Pi. In addition she has lectured in this country and abroad. Jean'ne's honors, lectureships and awards number over forty and this Phi Beta Kappa member is still very active. Her own University of Montana is proud of her and has given her awards. She holds one US Patent and has nearly 390 refereed technical publications.

ANNE T. SHERREN

ARE YOU UNEMPLOYED?

Are you seeking a better job? Are you looking to improve your career? The place to start is with your resume. That is the single tool that will get you an interview, illustrate your professional strengths, and show how you can improve your importance to your employer.

You can get help improving your resume through the Career Consultants. These are volunteers trained by the American Chemical Society to assist its members with writing resumes, contacting prospective employers, and providing tips on interviews.

There are several Career Consultants in the Chicago Section who are willing to meet with you and help improve your resume. **Simply call the Section office at 847-647-8405 and set up an appointment. Fifteen to thirty-minute sessions will be arranged at our monthly meetings.** Should you require more time arrangements can be made with your consultant to continue discussions by telephone, by e-mail or by additional face-to-face sessions. **You also can attend the Section's Job Club where you can network with other people having similar concerns.**

We are here to help. All you need to do is pick up the telephone and bring copies of your resume to the next monthly meeting.

CONGRATULATIONS TO OUR 50-YEAR MEMBERS!

As part of our April meeting program, we will honor our section members who have been ACS members for 50 years. The list of those to be recognized appears below. Maybe you know or have worked with some of these distinguished members. Take this opportunity to get together with your former colleagues for a nice lunch and an interesting presentation at our April meeting. This will be a luncheon meeting, conveniently scheduled for retirees or those who prefer traveling during the day. We hope to see many of you there!

Frank John Alexander
Masao Atoji
Walker Hill Bowman
Wallace Harris Brown
Frank Edward DeBoer
Leo Joseph Duffy
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Lowell Charles Gibson
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Dennis Eugene Lietz
Robin Alan Martin
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Lewis E. Roccaforte
Louis S. Seif
James Priest Shoffner
H. William Sievert
Richard Huntley Snow
Harry Douglas Spruance, Jr.
Norman Earl Wideburg

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

JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on **Friday, April 28 at 11 a.m. at Hackney's on Lake. Note the time!** 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 the 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 lunch meeting following the Job Club, the cost is \$10 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.



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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 4,600 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

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 4,600 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
1/2 Page	3.75" wide x 10" depth	\$500
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.

AND GLADLY TEACH: A RESOURCE BOOK FOR CHEMISTS CONSIDERING ACADEMIC CAREERS 2nd Edition Now Available

Among the specific topics included in the second edition of this 81-page book are the nature of an academic position in various types of institutions; preparations to make while still in graduate school; choosing between a postdoctoral position and a temporary teaching job; preparing a curriculum vitae, research proposal, and statement of teaching philosophy; campus visits for job interviews; weighing competing job offers; and balancing time demands in working toward tenure. Differences among institutions and issues of concern to women and underrepresented minorities are addressed as appropriate.

Interspersed within the chapters are statements from twelve recent Ph.D.s, describing their trajectories toward academic careers. The book ends with an extensive bibliography of printed and electronic resources.

For a complimentary copy of *And Gladly Teach*, contact the ACS Office of Graduate Education at GradEd@acs.org or the ACS Office of Society Services by phone at (800) 227-5558 or (202) 872-4600, or by e-mail at help@acs.org. To purchase multiple copies of the book, go to the ACS Online Store, product number 61617.



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ANALYSIS FOR THE CHEMICAL ELEMENTS

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Jordi Associates	6	508-966-1301	www.jordiassoc.com
Desert Analytics	7	520-623-3381	www.desertanalytics.com

ILLINOIS STATE FAIR

Volunteers Needed

The Chicago Section, along with the other Illinois Sections of the ACS, are planning to again have a cooperative tent at the Illinois State Fair this summer. The Illinois State Fair is from August 11-20 in Springfield. Our joint-sections' tent activities provide information to the public on chemistry by way of demos, hand-on activities, literature, and give-aways and give us a chance to touch the lives of many Illinois citizens and governmental leaders. Last year, over 11,000 people visited our tent.

We are looking for volunteers to help during the fair and also to help in planning this project. Our first planning meeting for this year was in February via conference call. Our next conference call meeting is planned for April 22. When we meet in person, those meetings are usually held in Normal, IL because of its central location to other Sections in Illinois. All meetings are usually held on Saturdays.

If you are interested in helping for a few hours during the State Fair in August (you do get free admission and parking), helping on the planning committee for the tent activities, or if you think your company may be able to give a much-needed donation (monetary or in supplies) — just e-mail Cheryln Bradley at CBRAD1027@aol.com or call the Section office at (847) 647-8405.

CHERYLN BRADLEY
FRAN KRAVITZ
CO-CHAIRS, AD-HOC COMMITTEE
ON THE ILLINOIS SECTIONS OF THE
ACS COOPERATIVE STATE FAIR
PROJECT

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CALENDAR

April 3-7: Gas Chromatography: Fundamentals, Troubleshooting, and Method Development course, Axion Analytical Laboratories, 14 North Peoria St., Suite 100, Chicago. For details, contact Lee Polite at (312) 243-2153 or lee@axionlabs.com. The course will also be held June 5-9 and September 18-22.

April 5: The Chicago Chemists Club will meet at the Bohemian Crystal Restaurant in Westmont. The speaker will be Pamela Wolfe, botany author and teacher, presenting "Coloring Your Garden". For further information, call Judy Reuter at (847) 679-2444 by April 4.

April 10-13: 43rd annual Introductory Course in Gas Chromatography sponsored by the Chicago Chromatography Discussion Group, Roosevelt University, Schaumburg, IL. Call (847) 647-0157 for an application. For course details contact CCDG c/o Park Graphics at (708) 745-5921 or ccdgsupport@hotmail.com.

April 22: The third Global Climate Change Forum, "Human Footprints: The Impact of Science, Policy and Technology on Climate Change", Northwestern University-Chicago Campus, 10 am to noon. **See article in this issue.**

April 26-27: The Irving M. Klotz Memorial Symposium, Allen Center at Northwestern University, Evanston, IL. For further information, go to the Calendar of Events on the section's homepage at <http://chicagoacs.org> or go to <http://www.chem.northwestern.edu/~klotz/>.

April 28: The Distinguished Service Award will be presented at the Chicago Section's Meeting. Note that this is a LUNCH meeting. **See front page of this issue.**

May 12: The Chicago Section's Willard Gibbs Award Banquet Meeting will be at the Chateau Rand, 900 E. Rand Rd., Des Plaines, IL. For further information, go to the section's website, <http://chicagoacs.org>.

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

May 28-June 1: The 54th ASMS Conference on Mass Spectrometry, Washington State Convention and Trade Center, Seattle, WA. For more information, go to www.asms.org or call (505) 989-4517.

May 31-June 2: The Great Lakes Regional Meeting, Hyatt Regency Hotel, Milwaukee, WI. The theme is "A Festival of Chemistry in the City of Festivals". For more information, go to chemistry.org/meetings/regional.

June 3: The fourth Global Climate Change Forum, "How Can We Continue to Meet Our Energy Needs without Jeopardizing Our Future", Chicago Cultural Center, 10 am to noon. **See article in this issue.**

June 23: Chicago Section Dinner Meeting. The after-dinner speaker is Dr. Penny Le Couteur, Dean of Arts & Sciences, Capilano College, North Vancouver, British Columbia. She is the co-author of the book "Napoleon's Buttons - How 17 Molecules Changed History" and she will speak about how her book was developed and several of the stories within the book.

June 26-30: 10th Annual Green Chemistry & Engineering Conference, Washington, DC. The theme is "Designing for a Sustainable Future". To learn more about the conference, please visit the conference website: www.greenchem2006.org

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