

The Chemical Bulletin

<http://chicagoacs.org>

FEBRUARY • 2013

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

MONTHLY MEETING

Thursday, February 28, 2013

The Parthenon Restaurant
314 South Halsted Street
Chicago, IL
312-726-2407

DIRECTIONS TO THE MEETING

From Kennedy (I-90) or Edens (I-94): Drive downtown and exit at Adams Street. Turn right and go to Halsted. Turn left onto Halsted. Restaurant is approximately 1.5 blocks on the west side of the street.

From Eisenhower (I-290): Drive east to Chicago. Exit at Racine and turn left. Go to Jackson Boulevard and turn right. Take Jackson to Halsted. Turn right onto Halsted. Restaurant is approximately 1/2 block on the west side of the street.

PARKING: Free valet parking. Parking is also available on the nearby streets or in a nearby lot for a charge.

JOB CLUB: 5:00-6:00 P.M.

SOCIAL HOUR: 5:30-6:30 P.M.
(Cash Bar)

DINNER: 6:30 P.M.

Dinner reservations are required and should be received in the Section Office via **phone** (847-391-9091), **email** (chicagoacs@ameritech.net), or **website** (<http://ChicagoACS.org>) by noon on Tuesday, February 26. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

GENERAL MEETING 7:45 P.M.



Dr. Deborah Blum, Helen Firstbrook Franklin Professor of Journalism, University of Wisconsin-Madison

Talk Title: The Poisoner's Handbook (or how I learned to love the homicidal history of chemistry)

Abstract: The science of forensic toxicology is a relatively new one -- we didn't even begin training researchers in forensic medicine until the 1930s. It is a remarkable story of science and politics, discovery and determination, and, of course, of murders both solved and unsolved. Within this context, we see the eventual integration of science into criminal justice leading to its influential role in that system today.

The Speaker: Deborah Blum is a Pulitzer-Prize winning science writer and the author of five books, most recently The Poisoner's Handbook: Murder
(continued on page 2)

IN THIS ISSUE

- | | |
|-----------------------------|-----------------------------------|
| 2 Dinner Information | 5 Lab Safety Tip |
| 2 WCC Travel Grants | 6 Gibbs Medal Awardee |
| 2 Trophy Case for Section | 6 DuPage Area Engineers Week Expo |
| 2 Analytical Chemist Needed | 6 Contact the Chair |
| 3 ChemShorts for Kids | 6 Ad Index |
| 3 African-American Chemists | 7 Job Club |
| 3 Research Space Available | 7 Advertising Rates |
| 4 Section Chair Letter | 7 Calendar |
| 4 ACS-CEI Awardee | |

and the Birth of Forensic Medicine in Jazz Age New York, a New York Times paperback best seller. Her e-single, *Angel Killer*, written for *The Atavist* was a #1 non-fiction single on Amazon this fall.

Blum also writes for a wide range of publications, including *The New York Times*, *Slate*, *The Wall Street Journal*, *The Los Angeles Times*, *Scientific American* and *Time* magazine. She also blogs about chemistry, culture and the occasional murder for *Wired Science Blogs* at Elemental: www.wired.com/wiredscience/elemental.

She teaches creative non-fiction, literary journalism and science journalism at the University of Wisconsin-Madison, where she is the Helen Firstbrook Franklin Professor of Journalism. Prior to joining the university, she was a science writer for *The Sacramento Bee* where she won the 1992 Pulitzer Prize for a series on ethical issues in primate research.

The series became her first book, *The Monkey Wars* (1994). Other books include *Sex on the Brain* (1997), *Ghost Hunters: William James and the Search for Scientific Proof of Life After Health* (2006) and *Love at Goon Park: Harry Harlow and the Science of Affection* (2011, second edition). She is currently working on a book about the chemical history of poisonous food.

A past president of the National Association of Science Writers (US), Blum now sits on the board of the Council for Advancement of Science Writing (CASW) and *The Open Notebook*. In her spare time, she hangs out with her husband, two sons, and a very friendly Labrador at her home in Madison, Wisconsin.

**REGISTER ONLINE for
Chicago Section
monthly meetings
www.ChicagoACS.org**

TRAVEL GRANTS FOR WOMEN CHEMISTS

The application deadline for the ACS Women Chemists Committee (WCC)/Eli Lilly Travel Awards is coming up fast! Don't miss this opportunity to receive up to \$1,000 to present at an ACS meeting between July 1 and December 31, 2013. If you travel to the ACS National Meeting, you'll be among other women chemists with whom you can network and learn first-hand about their experiences. Visit the WCC/Eli Lilly Travel Award web page for complete details and online application links. **The application deadline is February 15, 2013.**

DINNER INFORMATION

MENU: Greek Family Style Dinner--Appetizers: Saganaki (Kaseri cheese flamed in brandy), Gyros (roasted slices of lamb and beef), Taramosalata (fish roe blended with lemon and olive oil); traditional Greek salad. Main course: Vegetarian Spinach-Cheese Pie, Vegetarian Pastitsio (Macaroni baked with broccoli, Bechamel sauce and Kefalotiri), Dolmades (vine leaves stuffed with rice, meats and herbs), Rotisserie-roasted lamb served with rice pilaf and roasted potatoes. Desserts: Baklava (flaky layers of Phyllo baked with nuts and honey) and Galaktobouriko (flaky layers of Phyllo with vanilla custard and baked with syrup. Beverages, bread and butter.

The cost is \$30 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to members who have NOT paid their local section dues and to non-members is \$32. The cost to students and unemployed members is \$15. Seating will be available for those who wish to attend the meeting without dinner.

WCC COLUMN - AUTHORS NEEDED

Members of the Chicago Section's Women Chemists Committee (WCC) outreach plans for the Chicago-area section members and the community include a column in *The Chemical Bulletin* covering topics such as networking, career development, and vignettes of women in chemistry.

Please consider writing an article about a woman, who is living or dead, by interview or research on the web, or write an article on a topic of interest to women. Both women and men are welcome to join WCC in this activity.

Please make the article around 500 words long and include a photo if possible. Many of the previous articles have been shown as posters at various ACS Chicago Section and National ACS functions with great success. Thank you to everyone who has participated in this WCC effort.

MARGY LEVENBERG
TERI COLLINS
WCC CO-CHAIRS

HELP WANTED

Analytical Chemist

HNC Products Inc., an international R&D and Custom dermatology products manufacturing company centrally located on a 15 Acres campus, outside of Clinton, IL, is looking for an experienced Analytical Chemist to join their Q.C./Q.A. group.

Ideal candidate should have a B.S or M.S in chemistry or bio-chemistry and several years of analytical assay experience working with nutraceuticals, cosmeceuticals and OTC actives. The candidate should be very strong in method developments, testing methods and challenges. This hands-on position requires GLP and cGMP guidelines knowledge using HPLC, GC, FT-IRs and other testing instruments. Please forward your resume to:

**Chim Potini
V.P. Research and Development
HNC Products Inc.
283 Cromwell Drive
Clinton, IL 61727
Fax-217-935-8938
E-mail: cspotini@yahoo.com**

No Phone Calls please.

TROPHY CASE FOR SECTION AWARDS

The Chicago Section has been successful over the years in achieving recognition for service in various areas of the ACS's mission. The members of the Board of Directors are very proud of these achievements, and we know that you are too! The awards evidence the work of the local Section members.

We would like to showcase the awards in the Section's Park Ridge office. We, therefore, make this appeal for your assistance with finding a trophy case to house the Section awards. Maybe you know someone that would be happy to donate a case to the Section for this purpose. If so, please contact Gail, the Section Office Manager, either by email (chicagoacs@ameritech.net) or telephone (847-391-9091).

CHARLES E. CANNON
Councilor
Chair, Committee on Minority Affairs

"CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column and hopes it will reach young children and help increase their interest in science. Please print it out and pass it on to your children, grandchildren, or elementary school teachers. Teachers are encouraged to incorporate the projects in this column into their lesson plans.

Water Balloon Ice Gems

Kids, this is an easy way to make some decorations for your house if you live in a cold climate. You'll need water, balloons, food coloring, and outside temperatures below 25°F for at least two days.

Step 1: Fill

Open a balloon with one hand and drop 3-4 drops of food coloring into it. Food coloring is affected by cold and it may settle to one point in the ice gem you are about to create. Therefore the ice gem may not be a uniform color. Colorless gems are beautiful as well, so you may choose to not add color.

Secure the lip of the balloon over the lip of a kitchen or bathroom tap. Hold the lip of the balloon securely with one hand while you hold the balloon with the other hand. Slowly fill the balloon with the coldest water you can get from the tap. Don't overfill the balloon! Tie the balloon like you'd tie a normal water balloon. Don't worry if there's an air space at the top; it won't matter. If you like, you can fill several balloons with different food colorings.

Step 2: Freeze

If it's cold enough take your balloons outside, that's the most convenient; otherwise, have an adult partner make enough space for them in a freezer. It's wise to put something underneath the balloons. Though unlikely, the balloons might burst or stick to the ground or bottom of the freezer. Plastic grocery bags work fine. **Make sure balloons rest on a flat surface, since you want the ice gems to have a flat bottom.**

Freeze the balloons for a day and then **gently** flip them onto their side to continue freezing. Ice forms on the top of the balloon first, and flipping the balloons onto their sides speeds up freezing the bottom half. Continue freezing for at least another day and night to ensure the water is completely frozen.

After two days, check the balloon by **gently** shaking it back and forth. If you feel liquid sloshing around inside the gem, or see an air bubble moving around inside, put it back into the freezer or outside for another day.

Step 3: Unwrap

Now for the fun part! It's okay to unwrap your ice gems indoors, but make sure they're not in the warm air for too long. They start to melt fast, particularly when exposed to body heat. Take one gem at a time to a table with a soup bowl. Gently remove the outer balloon coating, doing your best not to touch the surface of the gem (which instantly starts it melting.) The balloon and gem might have sharp, icy edges, so be careful. Each gem will be different and unique. What do you find? After each one is unwrapped, use the bowl to transport the gem either into the freezer or outside to prevent it from melting.

Reference:

Thanks to Milt Levenberg for sharing this idea.

<http://faceless39.hubpages.com/hub/How-To-Make-Decorative-Ice-Gems>

Submitted by DR. KATHLEEN CARRADO GREGAR

To view all past "ChemShorts for Kids," go to:

<http://www.chicagoacs.net/ChmShort/kidindex.html>



Follow us on Facebook and Twitter!
www.facebook.com/ChicagoACS
<http://twitter.com/ChicagoACS>



CELEBRATE AFRICAN AMERICAN CHEMISTS

Share the inspirational achievements and contributions of African American scientists with students and colleagues using ACS' commemorative website. Learn about famed agricultural chemist George Washington Carver, blood bank pioneer Charles Drew, and lesser known scientists such as Lloyd August Hall who invented a number of ways to preserve food and amassed numerous patents used today. Visit <http://tinyurl.com/85rmgq4>

WANT TO REACH CHEMISTS AND CHEMICAL ENGINEERS?

FOR SALES? ... FOR
EMPLOYMENT? ... FOR
ATTENTION? ...

Contact the Section office at 847-391-9091 or email at chicagoacs@ameritech.net about advertising your business.

RESEARCH SPACE AVAILABLE

Two offices and a lab are available for rent in Lake Villa. The following equipment is available: chemical hood, biochemical hood, rotary evaporator (with bath and water aspirator), vacuum pumps, air compressor, spectrometer, hydrogenator, menometers, centrifuges, drying ovens, refrigerator, freezer, chromatography supplies, eppendorf pipettes, gases (nitrogen, oxygen, hydrogen) with regulators, assorted glassware, and miscellaneous lab supplies. For more information or to schedule a viewing, call Neil at (847) 549-0104.

NOTICE TO ILLINOIS TEACHERS

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



**From the Section Chair
Michael G. Koehler, Ph.D.**

With All Rights, Privileges ... and Responsibility

"Upon the authority vested in me by the President and Board of Trustees, I confer upon each of you the appropriate degree with all rights and privileges appertaining thereto."

For most of us, those were the words that launched our careers in chemistry. For our students, these are the words you strive to hear some day forthcoming. These are the words spoken at the commencement

ceremonies across our nation when a new generation of chemistry graduates accepts their degrees ... and along with it ... the rights and privileges appertaining thereto. One of those privileges is an invitation to be elected as a member of the American Chemical Society. Yes, I said privilege.

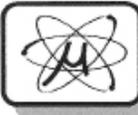
When you are elected as a member of the Society, you are granted a privilege that you earned with your advanced education or role in chemistry education. That privilege includes all the benefits of membership, but also the honor of association with a congressionally chartered national treasure. It is a privilege you will list on your resume, announce when you are introduced, and pin to your lab coat lapel. It is here, in the ACS, that the greatest minds in chemistry will share their learning. It is here that educators will discuss their best practices. It is here that political leaders will seek out the experts and assemble teams to address some of our world's most challenging problems. To be part of this transforming enterprise is truly a privilege.

But there is one word they forgot to mention, **RESPONSIBILITY**. As chemists, we also take on a responsibility to work collectively as active members of the American Chemical Society. Around the globe, we are teaming up to combat disease ... promote public health ... provide clean water and safe food ... develop new sources of energy ... confront climate change ... develop materials that are the building blocks of our modern society ... explore and explain the processes and chemistries of our complex world ... **We are the American Chemical Society**. Our more than 164,000 scientist, engineers and allied professionals make up the world's largest scientific society and we are responsible to collectively achieve our vision:

Improving people's lives through the transforming power of chemistry.

We are the collective guardians of our nation's most valuable branch of science, chemistry. Medicine, biology, buildings and roads, transportation, communications, energy, agriculture, safe water, national defense, forensic investigations, climate change, and even the arts ... all depend on our collective explorations, applications, and communications of chemistry. We are responsible to constructively challenge each other's discoveries. We collaborate to investigate and tackle global challenges in agriculture, environment, health, public safety, and energy. We publish, present, discuss, disseminate, apply and archive our knowledge and understandings. And most importantly, we prepare the next generation of scientists to take the reins, own the mission, and transform our world. It is an awesome responsibility.

Congratulations colleagues. You've earned the privilege. Now embrace the responsibility that comes with your membership ... and together we will *improve people's lives through the transforming power of chemistry*.



Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION

MORPHOLOGY CHEMISTRY STRUCTURE

SEM/EDXA, TEM/SAED, EPA/WDXA, XRD,
XRF, ESCA, AUGER, FTIR, DSC/TGA
3815 Lancaster Pike Wilmington DE. 19805
Voice 302-998-1184, Fax 302-998-1836
E-Mail micronanalytical@compuserve.com
Web Page: www.micronanalytical.com

**COLLEGE OF DUPAGE
PROFESSOR TO RECEIVE
THE ACS IMPROVEMENT
COMMITTEE ON
ENVIRONMENTAL AWARD**

Richard H. Jarman, a professor of chemistry at College of DuPage, was recently selected as a 2013 recipient of the American Chemical Society's Committee on Environmental Improvement Award, which honors those who have "made exemplary contributions to the incorporation of sustainability into chemical education."

He is being recognized for his work with students on the new Green Fuels Depot in Naperville, a multi-year project that included a consortium of contributors – Packer Engineering, Argonne National Laboratory, College of DuPage and the city of Naperville.

He will speak about the Green Fuels Depot at a symposium at the ACS Spring national meeting in New Orleans.

SECTION MEETING DATES 2013

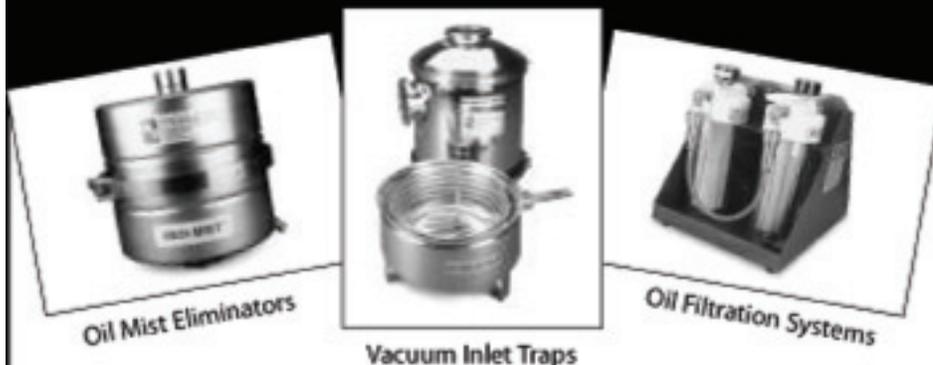
THURSDAY, FEBRUARY 28
FRIDAY, MARCH 15
THURSDAY, APRIL 18
FRIDAY, MAY 17
THURSDAY, JUNE 27
FRIDAY, SEPTEMBER 27
FRIDAY, OCTOBER XX (TBD)
FRIDAY, NOVEMBER 22
FRIDAY, DECEMBER 13

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

**ACS SCHOLARS
ACCEPTING NEXT ROUND
OF APPLICATIONS**

The ACS Scholars Program is now accepting online applications for awards beginning with the 2013-2014 academic year. The program is targeted at minority groups considered by NSF to be underrepresented in the sciences. It is open to graduating high school seniors, college freshmen, sophomores and juniors majoring in a chemical science. Go to www.acs.org/scholars for complete information and the link to the application. Potential applicants can also call 202-872-6250 or send an email to scholars@acs.org. **The application deadline is March 1, 2013.**

Meet the Protectors of Vacuum Pumps, Systems and the Environment!



MV Products offer you a full line of oil mist eliminators, vacuum inlet traps, oil filtration systems and other quality vacuum products designed to assure your vacuum pumps a long life and you a clean and healthy environment.

- MV oil mist eliminators remove oily haze from vacuum pump exhaust, protect the surrounding areas and the room air you breath.
- MV vacuum inlet traps protect your vacuum pump from corrosive and abrasive elements and can be tailored to your specific application requirements.
- Oil filtration systems remove acids, corrosives, and contaminants from pump fluids thus reducing maintenance costs and prolonging pump life.

Other Quality Vacuum Products



Vacuum Degassing
Chambers



Central Source
Vacuum System



Filters

For more information on these and other
fine vacuum products contact



PRODUCTS

A Division of Mass-Vac, Inc.

247 Rangeway Road • PO Box 359 • North Billerica, MA 01862-0359
TEL 978-667-2393 FAX 978-671-0014 E-MAIL sales@massvac.com WEB www.massvac.com

LABORATORY SAFETY TIP

Contractors and Vendors in the
Laboratory Workplace

It frequently happens that instrument support personnel and contractors can be in the laboratory workspace to conduct their business. It is important to have guidance in your safety program that all involved persons understand. There needs to be proper awareness training for these people related to site specific safety requirements which need to be observed during their visit. Although these visitors work in laboratories routinely, they do not know the particulars of your safety program.

Do you have a "Visitor and Vendor Safety Rules and Emergency Procedures" statement (or brochure) that you can share with them before entering the lab? If not, create one as it will be a great way to ensure consistency in administering a consistent message to visitors that may be working in a variety of lab areas within your facility. It will include protocols for working within the confines of laboratory space in general, procedures in case of an emergency (including where to go if alarm sounds), and designate responsible parties to contact to address any safety questions that the contractors or vendors might have. A contractor/vendor training sign off sheet is also recommended to emphasize that this is a serious issue and to ensure that expectations are clear.

Be aware that within the certain laboratories that these visitors are working in, there may be a need to discuss additional safety practices necessary for them to know beyond general practices. Laboratory staff need to be active participants in insuring compliance. They need to remind the visitors when their practices are not adequate.

Does your EHS program require that a current "Certificate of Insurance" for the vendor or contractor be on file? It is a good idea to have this information on file and updated annually. Hope-fully, your facility management takes responsibility for these issues.

Set the tone by having clarity for how vendors and contractors need to behave with regards to safety in your laboratory. You do not want to work with service providers that minimize the importance of your safety program during their visit.

Contributed by Richard Durand
Director, Material and Characterization
Science
Sun Chemical Corporation
From http://labmanagers.org/content.php?page=Monthly_Safety_Tip

2013 GIBBS MEDAL AWARDEE

The Chicago Section of the American Chemical Society and The Jury of the Willard Gibbs Medal are pleased to announce the selection of **Professor Charles Lieber**, the Mark Hyman Professor of Chemistry at Harvard University, **as the recipient of the 2013 Willard Gibbs Medal**.

Since 1911, the Chicago Section of the American Chemical Society, one of the oldest and largest sections in the Society, has presented the prestigious Willard Gibbs Medal "To publicly recognize eminent chemists who, through years of application and devotion, have brought to the world developments that enable everyone to live more comfortably and to understand this world better."

The Jury of the Willard Gibbs Medal deliberates for months on the nominations for the Medal. Their deliberations recognized Professor Lieber as one of the great explorers of our times. Through his research, collaborations, teaching and publications, he has taken us on a journey into the realm of the *nanoworld* and provided us with the tools and technologies to not only help us see and understand this dimension of our world, but also to shape and transform the future with it. Professor Lieber has provided innovative tools and methodologies to see, characterize and synthesize nanowires and nanoscale materials. His ingenuity in the application of these technologies is transforming our world of medical diagnostics, computing, energy, optoelectronic devices and biological sciences. These are the attributes of a Gibbs Medalist and his years of devotion to chemistry and its applications to society have earned him this honor.

Professor Lieber joins an august group of 101 other Willard Gibbs Medalists, including Svante Arrhenius (1911), Leo Baekeland (1913), Marie Curie (1921), Irving Langmuir (1930), Linus Pauling ((1946), Louis Hammett (1961), Glenn Seaborg (1966), Albert Cotton (1980), EJ Corey (1984), Mario Molina (1998), David Evans (2005), and 90 other highly esteemed chemists who have earned their place in the history of chemistry. It is an honor to add the name **Dr. Charles M. Lieber** to this distinguished list of chemists.

Professor Lieber looks forward to addressing the Society on the occasion of the Presentation of the Medal. **This is tentatively scheduled for Friday evening, May 17, 2013.** Please join us for this historic celebration as we congratulate Professor Lieber on this prestigious honor.

For further information regarding the Willard Gibbs Medal and its presentation on May 17, 2013, please contact the office of the Chicago Section of the American Chemical Society at chicagoacs@ameritech.net or Michael G. Koehler, Ph.D., Chair of the Chicago Section, at mgkoehler@proaaci.com.

DUPAGE AREA ENGINEERS WEEK EXPO 2013

The ACS Scholars Program is now acDuPage Area Engineers Week Expo 2013. The DuPage Area Engineers Week Expo is being celebrated in 2013 on Saturday, February 23, 2013 at Illinois Institute of Technology's Daniel F. and Ada L. Rice Campus at 201 East Loop Road in Wheaton from 11:00 AM to 3:30 PM. Events are free and open to the public. The event celebrates the fun that math, science and engineering provides to learners of all ages.

The goal of the Expo is to ensure a dedicated, diverse and well-educated future engineering workforce by promoting pre-college literacy in math and science. While the Expo's target age group is middle school, people of all ages will enjoy the displays and presentations.

The Engineers Week Expo features a building full of hands-on activities and demonstrations to allow young people to experience and explore the fields of engineering. Presentations introduce 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.

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 approximately twenty years, the west suburban campus of Illinois Institute of Technology has hosted the annual Engineers Week celebration.

Please join us for one or more of the Expo activities. And check out the following Web site from time to time to see what's new: <http://dupageweek.iit.edu>.

CONTACT THE CHAIR

Do you have any questions, suggestions, ideas, gripes, or complaints relating to the Chicago Section? Do you want to help with Section programs and activities? Then contact your Chair. Simply log onto the Section's Web Page at <http://www.chicagoacs.net/>, click on the "Contact Us," click on "Contact the Chair," and send me an e-mail. If I can answer your query, I will respond personally. If I can't answer directly, I will forward your e-mail to someone who can, or try to provide you a contact – all in a timely manner. The Section belongs to you and the other 4,546 ACS members residing in the Chicagoland area (including 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.

Mike

Michael G. Koehler, Ph.D.
CHICAGO SECTION CHAIR

ADVERTISING INDEX

The mission of the Chicago Section of the ACS is to encourage the advancement of chemical sciences and their practitioners.	Company	Page	Telephone	URL/E-Mail
	HNC Products Inc	2		cspotini@yahoo.com
	Micron Inc.	4	302-998-1184	www.micronanalytical.com
	Mass-Vac, Inc.	5	978-667-2393	www.massvac.com

CALENDAR

February 12: University of Illinois at Chicago, Department of Chemistry lecture - 4pm. Speaker: Prof. Christopher Douglas, University of Minnesota. For further information, go to <http://www.chem.uic.edu/seminars.php>

February 14: University of Illinois at Chicago, Department of Chemistry lecture – 4pm. Speaker: Dr. John Halpin, NYU. For further information, go to <http://www.chem.uic.edu/seminars.php>

February 25-26: Northwestern University, Department of Chemistry's Charles D. Hurd Lectures; Speaker: John Santini, RadioRx, Inc.; Location: Allen Center, 4pm (on the 25th); Tech Institute, room L211, 11am (on the 26th). For further information, go to <http://www.chemistry.northwestern.edu/events/calendar.html>

February 28: Chicago Section ACS Dinner Meeting at the Parthenon Restaurant. This is a Thursday meeting. **See details in this issue.**

March 15: Chicago Section ACS Public Affairs Dinner Meeting.

March 17-21: Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon 2013), Pennsylvania Convention Center, Philadelphia, PA. For additional information, visit the Pittcon website at <http://pittcon.org/>.

March 22-24: 63rd Chicago Public Schools Student Science Fair, Museum of Science and Industry

April 4: Loyola University's Denkwalter Seminar; Speaker: Melanie Sanford, University of Michigan. For more information, go to <http://www.umich.edu/~mssgroup/>.

April 7-11: 245th ACS National Meeting & Exposition, New Orleans, Louisiana

April 18: Chicago Section ACS Dinner Meeting

May 17: Chicago Section ACS Willard Gibbs Award Banquet. Further information is given in this newsletter.

June 5-8: 2013 ACS Great Lakes Regional Meeting (GLRM 2013) in La Crosse, Wisconsin. Registration opens in mid-January; <http://glrm-lax.sites.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 4,546 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

We accept ads sent in jpg, tif, or quark formats. For more information, contact chicagoacs@ameritech.net or call 847-391-90911.

February, 2013 Vol. 100, No. 2. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor; Fran Kravitz, Associate Editor; Richard Treptow, Proofreader. Address: 1400 Renaissance Dr., Suite 312, Park Ridge, Illinois 60068; 847/391-9091. Subscription rates: \$15 per year. Frequency: monthly-September through June.

JOB CLUB

The next meeting of the **Chicago Section ACS Job Club will be held on Thursday, February 28 at 5:00 p.m. at the Parthenon Restaurant.** 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 dinner meeting following the Job Club, the cost is \$15 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.

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!