

The Chemical Bulletin

100th Anniversary 1914 – 2014

<http://chicagoacs.org>

APRIL • 2014

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY MONTHLY MEETING THURSDAY, APRIL 24, 2014

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 south to 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.

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://www.chicagoacs.net/meetings/14apr.php>) by noon on Tuesday, April 22. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

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.

PRE-DINNER TALK: 5:30 – 6:00 P.M.
Kinnari Saraiya, Managerat Kelly Scientific Services, will speak to job-seekers about how to best prepare for finding scientific employment in today's environment.

GENERAL MEETING:
Panel Discussion **7:45 P.M.**

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The chemical industry is undergoing enormous changes that affect employment. What are they and how should chemists prepare for them? Massive layoffs from large companies have become common, yet somehow unemployment for chemists remains relatively low. What are the industry trends that affect employment? Are big companies shutting down in-house R&D? Are permanent jobs being replaced with temporary and contract positions? Is there a rise in opportunities at contract research organizations, small companies and startups? Should smart chemists assume all employment is now unstable? Is it smarter to seek a position in a contract research organization, or even work as an independent contractor? What is the new shape of the chemical industry and how does today's chemist prepare for it? Our panel of experts will address these questions and provide specifics relevant to Chicagoland:

- Dr. Dave Harwell (tentative), Assistant Director of Industry Member Program at ACS in Washington, D.C., will speak about trends in the chemical industry as a whole.
- Kinnari Saraiya, Manager at Kelly Scientific Resources in Chicago, will speak about local employment trends, with particular emphasis on contract and temporary employment.
- Two additional panelists from HR departments of large local chemical firms will provide their perspective from the job supply side.

BIOGRAPHIES

Dr. David Harwell is Assistant Director of the Industry Member Programs at the American Chemical Society in Washington, D.C., He was formerly the Assistant Director for Career Management and Development, and also the Assistant Director for Local Section and Community Activities. He earned both his B.S. and Ph.D. in Chemistry at Texas Tech University, and earned a mini-MBA at the University of Maryland - College Park. He hosts many webinars in the popular ACS Webinars series and helps present the Chemistry Career Pathways Workshops.

Kinnari Saraiya is the District Manager for Kelly Scientific Resources in Chicago, which is a mainstay of employment for many of the largest firms in the area and covers contract and temporary assignments as well as recruiting for permanent positions. She earned her B.S. in Chemistry from the University

of Illinois at Chicago and earned her MBA from San Jose State University in California.

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

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FREE EDUCATIONAL RESOURCES FOR HIGH SCHOOL TEACHERS

The American Chemical Society offers a wide variety of materials online at www.acs.org/highschool. Here are just a few:

- **ChemMatters** is an educational magazine containing articles on popular topics for teenagers. By demystifying the chemistry behind a subject—be it barbecue, perfume, or nutrition labels—articles explain the connection between classroom topics and the real world. Each issue offers one free article online and an extensive free teacher's guide with activities, reading strategies, materials, background information and much more. Annual subscriptions for the hard-copy magazine cost \$16, and bulk rates are available.
- The **ACS ChemClub program** provides students with a unique opportunity to experience chemistry beyond the classroom. Students participate in after-school activities, get involved in community building, learn about chemistry careers, enjoy social events, and better understand how chemistry plays a role in our everyday lives. ChemClub advisors receive a handbook of information and resources for starting a club. Quarterly resource packets and occasional bonus items help with ongoing club activities.
- **Landmark Lesson Plans** are high school lesson plans based on subjects in the history of chemistry. Topics include the discovery of fullerenes, development of baking powder, and Joseph Priestley's discovery of oxygen. Each lesson is complete with reading material, a video and activities for high school students. Lessons are written by high school chemistry teachers and reviewed by subject matter experts.

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 4,420 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, Photo Shop, Indesign and pdf files. For more information, contact chicagoacs@ameritech.net or call 847-391-9091.

"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.

Regular Salt to Rock Salt

Kids, have you ever seen a chef cook with pink salt or put their food on a big pink slab that looks like a large marble cutting board? Rock salt is a natural, unrefined salt consisting of large crystals containing mineral impurities. Sometimes the impurities give color to the salt. For example, natural salt can be white, pink, red, or even black. The grain size, color, and flavor make rock salt popular for recipes, bath products, and crafts, but it can be very expensive. You can make your own rock salt from regular table salt.

You'll need:

- table salt (NaCl); iodized salt, uniodized salt, or sea salt, all work well.
- water, two cooking pots, and a stove
- food coloring

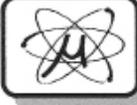
Process:

- Have an adult partner heat the water to a rolling boil. Very hot tap water is not hot enough because salt solubility increases rapidly with temperature.
- Stir in salt until no more will dissolve.
- Add a couple of drops of food coloring. Two drops of red and one of yellow will make pink Himalayan rock salt.
- Pour the solution into a clean container. For the cleanest crystals, avoid getting undissolved salt into this new container. For the quickest results though, leave the undissolved salt to help start crystal growth.
- Let the salt crystals grow as the water cools. As the water evaporates, the liquid becomes more concentrated and the crystals will grow more quickly.
- When you have enough crystals (or when they stop growing), pour off the remaining liquid and let the salt dry. You can break it into pieces and store it in a sealed bag or jar. You can also test to see if it dissolves in water.

Reference: <http://chemistry.about.com/od/crystalrecipes/fl/How-To-Make-Rock-Salt.htm?nl=1>

Submitted by DR. KATHLEEN CARRADO GREGAR

To view all past "ChemShorts for Kids," go to:
<http://www.chicagoacs.net/ChmShort/kidindex.html>



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JOIN US AT THE FAIR!

The Chicago Section, jointly with the other ACS Illinois Sections, again plans to have an exhibitor's tent at the Illinois State Fair **August 8-17** in Springfield, IL. Our cooperative tent activities provide information to the public on chemistry with demos, hands-on activities, computer quizzes, posters, literature, and give-aways. They give us a chance to show the positive aspects of chemistry to many Illinois citizens and governmental leaders. **Last year, we had a record number of more than 15,900 people visiting our tent!**

We particularly need volunteers to help during the fair. Student members and other student volunteers are welcomed! If you are interested in helping us for a few hours in this fun and worthwhile science outreach activity, let us know! You will receive free admission to the Fair and free parking if you sign up to volunteer in time! Call the Section office at (847) 391-9091 and go to our website at <http://chicagoacs.net/statefair/index.html> for information and to sign-in using our online volunteer scheduler.

SECTION MEETING DATES 2014

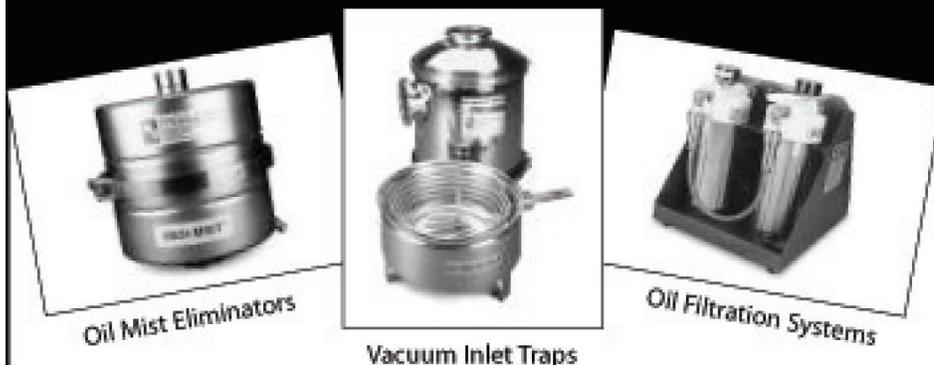
Thursday, April 24
Friday, May 16
Thursday, June 19
Friday, September 19
Friday, October 24
Thursday, November 20
Friday, December 12

AWARD FOR OUTSTANDING OUTREACH

Do you know an outreach superstar? A fellow chemist who brings chemistry to life for public audiences, whether they be students, scouts, community groups, or others? Or maybe someone who gets the word out through radio, newspaper columns, videos or television appearances?

Nominations are open for the Helen M. Free Award for Public Outreach, which recognizes an ACS member who improves public recognition and appreciation for the role of chemistry in our lives. The award includes a \$1000 prize. Submit a nomination online by May 15, 2014. Go to <http://tinyurl.com/m4alrsc> for further information.

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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 ACS 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 847-391-9091 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.

WHEN YOU CHANGE YOUR EMAIL ADDRESS

Please let the section office know what your new email address is so that you will miss any notes concerning issues to *The Chemical Bulletin* or other section information. Contact the office at 847-391-9091 or at chicagoacs@ameritech.net

RECEIVE PERSONALIZED TRAINING WITH SCI-MIND

Sci-Mind is an exciting, new learning product designed to personalize learning and modernize education and training for busy professionals in the scientific industry. Replacing pre-determined syllabi, all Sci-Mind curricula, assignments, activities and even experts are customized according to the needs of each participant and rely on using real-life situations faced at work to illustrate lesson plans. Sessions covering Separation Science, Toxicology and Biopolymers have seats available. Visit www.sci-mind.org to find session dates that fit your schedule.

!!!!!!!!!!!! CELEBRATION OF THE GIBBS AWARD !!!!!!!!!!!!!**DO YOU KNOW ABOUT THE 103rd J. WILLARD GIBBS AWARD DINNER ON FRIDAY, MAY 16, 2014 AT MERIDIAN BANQUETS, ROLLING MEADOWS, IL?**

For just \$ 50, you get the following:

- an internationally renowned chemist, John Bercaw of Caltech, 2014 Gibbs Award Winner, giving a talk about his fascinating research titled "Hydrocarbon Upgrading to Fuels and Chemicals: Progress towards Homogeneous Catalysts"
- a great dinner including appetizers, wine, and 2 drink tickets!
- the opportunity to network with chemists excited about meeting you

Join us for a social hour that begins at 6:00 pm. (with hors-d'oeuvres and 2 drink tickets), dinner at 7:00 pm., and Dr. Bercaw's talk beginning at approximately 8:30 pm.

Dinner Menu includes
Cream of Tomato Basil Bisque with Bleu Cheese
Meridian Salad

WITH A CHOICE OF
Roast Top Sirloin of Beef with rosemary merlot sauce
Fresh Broiled Norwegian Salmon with dill sauce
Portobello Mushroom with zucchini

and Hot Fudge Brownie à la mode

Reservations are required. Please register at our website or call the Chicago Section office at 847-391-9091 by Monday, May 12 and pay \$50 at the door. No refunds will be made after noon on Monday, May 12, 2014.

Please come to salute the recipient and rejoice in Dr. Bercaw's achievements and his contributions to the science of chemistry. Prior award winners include Svante Arrhenius, Marie Curie, Linus Pauling and other top chemists of the 20th and 21st centuries. Join us for this gala event!

After all, where else can you hear a Great Chemist AND get a Hot Fudge Brownie à la mode!

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SAFETY CULTURES IN ACADEMIC INSTITUTIONS

The Safety Culture Task Force of the ACS Committee on Chemical Safety (CCS) has published a 57-page report entitled *Creating Safety Cultures in Academic Institutions*. This report includes discussion of common issues with respect to the safety culture in colleges and universities. Several recommendations are made. Appendices list suggested duties of institutional personnel and chemistry-based technicians. The references (called Endnotes in the report) are a timely listing of resources for those working in academic safety areas. An electronic version of the report can be downloaded from the CCS website, www.acs.org/safety. A printed copy can be obtained from the ACS National Office, 1155 Sixteenth St. NW, Washington DC 20036.

GET EXPERIENCE WEBSITE FOR UNDERGRADUATE STUDENTS: SHARE RESEARCH OPPORTUNITIES IN CHEMISTRY

Share the Get Experience website with your students, an easy-to-use online database of research opportunities, internships, and other chemistry-related experiences. Students can search by keyword, location, or chemistry field searches. Faculty can also use this free tool to post experiential opportunities for undergraduate students. Check out www.acs.org/GetExperience to search for or post new opportunities today!

Go to <http://www.getexperience.dreamhosters.com/>

100TH ANNIVERSARY OF THE CHEMICAL BULLETIN

REMEMBRANCES OF THINGS PAST

Editorial by Bernard E. Schaar, Managing Editor of THE CHEMICAL BULLETIN in 1924

Ten Years Ago -- And Today

Ten years have elapsed since the first number of the BULLETIN was published. At this milestone in our career it is well for us to pause and ponder on the progress that has been made, not only in the BULLETIN, but in the Chicago Section as well. In size we have certainly progressed from the eight pages of the first issue to the present BULLETIN [note: the issues averaged 32 pages in 1924!]. So also has the Section grown to almost double its size since 1914.

In our optimism at the physical growth of the BULLETIN and the Section, we are apt to think that similar progress has been made in all activities. A glance through some of the first issues of the BULLETIN leads one to wonder whether such actually is the case. There we find the Constitution being amended so as to include an Employment Committee and a Public Representation Committee. There we find the forerunner of the Endowment Fund in what at that time was an effort to obtain underwriters for the Society to the extent of a total of one thousand dollars. There we find references, both editorially and otherwise on the need for a permanent secretary, on methods of stimulating the interest of new members, and much discussion as to the economic status of the chemist. Despite the activities of energetic chairmen and committees in the past the Section is still vitally concerned with these matters and properly so. With particular reference to public representation, one might well question our progress. There is not so much criticism in this question as a challenge to each of us to so condition the standards among us that chemistry will be recognized among the leading professions, the status of the chemist will be improved, and his social usefulness increased to the point of general recognition in the community. Actually we are little further advanced than we were ten years ago. If we are ever to occupy our place in the social structure which is our due, it will be necessary for us to continue uninterruptedly along this line.

In the matter of financing ten years ago, the campaign was one for raising one thousand dollars. We are now in the midst of another campaign, the ultimate object of which is to raise twenty-five to

fifty thousand dollars....Out of over nine hundred members, less than thirty have contributed. Is this progress? Have we during the past ten years succeeded in convincing the members of our own Society of the value of putting it on a self-supporting basis, so that the ever-increasing amount of detail can be successfully handled. Let us start the next ten years with the determination to do our share in the furtherance of these projects. They are worth our earnest consideration.

Bernard E. Schaar, 1924

Editorial by D. K. French, Chairman of the section's Endowment Committee in 1924

The Beginnings of the Chemical Bulletin

When my attention was called to the fact that this October was going to be the tenth anniversary of the CHICAGO CHEMICAL BULLETIN now the CHEMICAL BULLETIN, my mind called up immediately the pictures of a crowded dining room in the Grand Pacific Hotel. "Crowded" in those days was quite a bit different from what it is now, as sixty to eighty people filled the room to overflowing.

At that time the section's membership was something in the neighborhood of four hundred or over, and the older members were beginning to feel that they were getting out of touch with the younger members and that something must be done to help them to get acquainted. Mr. Eisenschiml, then Chairman of our Section, made the suggestion of issuing a monthly bulletin and the CHICAGO CHEMICAL BULLETIN was immediately authorized.

At the same time, the section was struggling for funds as it always was and to L.A. Tousalin belongs the credit for the invention of the underwriter's scheme by means of which the Section was put on a sound financial basis for the time being.

The first issue of the BULLETIN appeared in October 1914 and is a rather interesting one. It was not bound and totaled eight pages, about one-third advertising. Three editorials were all signed O.E. [Otto Eisenschiml, the founder and first editor]; there were one or two articles by the Treasurer and Officers; the Secretary filled considerable space, and the rest of the BULLETIN was made up of interesting quotations and articles lifted from technical magazines.

During that year and the next it might be of interest to follow the results of a

membership campaign as carried on under the auspices of C.A. Tibbals, who was then Chairman of the Membership Committee.

In May, 1915, appeared the announcement that the total membership was 427, and that one year previous it was 422. Members are asked to look at the figures and ponder deeply. In June, appeared the information that the membership was now 447; in July 481; and the January issue of the next year tells us that on the first of December when the books were closed, the membership of the Local Section was 502, and that we have gotten the extra councilor for which we had been striving during that year.

During this first year also appear advertisements of the Underwriting scheme, where members contributed a certain amount of money, depending upon how much they had loose. The Section's accounts were audited, the bills paid and the balance returned to the Underwriters. Thirty-five percent was given back on this first working out of the plan, and the Section had all bills paid and most of the Underwriters unwilling to accept their thirty-five percent, but rather contributing it.

In the early issues, so great was our desire to get news, that we had a staff of reporters, whose duty it was to send in results of happenings in various parts of the city. All of the committees had their places and the minutes of the various meetings were abstracted in each issue.

There is a question as to whether any of the originators of the BULLETIN realized what importance it would assume with growth, and certainly the condition of the BULLETIN today is an indication of the earnest efforts which have gone into its growth in recent years, as well as the soundness of the idea behind it.

Possibly the most pleasing part of the whole job of getting together this information is the fact that I had an opportunity to re-read many of the early numbers and recall many of the things which had happened ten years ago.

D. K. French, 1924

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.

CALENDAR

April 3: Institute of Food Technologists Chicago: The Science & Market Forces Behind the Gluten-Free Movement, 7:30am - 10:00 am at Mintel Group, 333 W. Wacker Dr., Suite 1000, Chicago. \$15 for members; \$25 for nonmembers. For further information, go to www.chicagoift.org/meetings/April32014TechnicalSession.html

April 4: "Beers With Peers" Professional Networking Event sponsored by the ACS Chicago Section's Younger Chemists Committee (YCC) to be held at the Howl at the Moon Dueling Piano Bar, 26 West Hubbard St., Chicago, IL 60654 from 5-9pm. Free cover 5-7pm; Free appetizer buffet. Transportation available for NIU students. This is an event to connect Chicago area younger chemists & career recruiters. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

April 6: Lederman Science Center: Ask-a-Scientist Guided Tour of Fermilab: "So We Found the Higgs Boson, Now What?" by Don Lincoln, 1 - 4 pm at Fermilab, Wilson Hall, Batavia. Free. Register by noon, April 4. http://eddata.fnal.gov/lasso/program_search/calendar_new.lasso

April 24: Chicago Section dinner meeting. **See details in this issue.**

May 16: Chicago Section ACS Willard Gibbs Award Banquet. **Dr. John Bercaw**, Caltech, is the recipient of the 2014 Willard Gibbs Medal.

May 24: Tentative date for the Younger Chemists Committee (YCC) event, "Careers in Chemistry", a poster session/mock interview/resume review event. Further information as the day approaches. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

June 17-19: The 18th Annual Green Chemistry & Engineering Conference (GC&E), Washington DC metro area. The theme is "Advancing Chemistry, Innovating for Sustainability." For details, visit http://www.gcande.org/?cid=em_gci_epa_1_15_14

September: A Younger Chemists Committee (YCC) event, Meet the Neighbors, a "speed-networking" event to showcase the chemistry being done by local chemists within YCC, followed by a networking social hour. Further information available after the date is set. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

September: A Younger Chemists Committee (YCC) event, "Future Faculty Workshop." Further information available after the date is set. Contact Beau at pwangtrakuldee@niu.edu or Alyssa at ajavestro@u.northwestern.edu for details.

September: A Younger Chemists Committee (YCC) event, "Fall Fellowships Digest." Further information available after the date is set.

ACS OFFERS SPECIAL BENEFITS FOR UNEMPLOYED MEMBERS

During these tough economic times it's more important than ever to be a member of the American Chemical Society. Unemployed members can tap into a host of valuable benefits and services that help them get back in the workforce. And, members in good standing may qualify for an **unemployed member dues waiver**, allowing them to renew their memberships and keep their member benefits at **no cost**. Contact ACS at service@acs.org, 800-333-9511 or 614-447-3671 for complete details.

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

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ADVERTISING INDEX

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Mass-Vac., Inc.	4	978-667-2393	www.massvac.com

April 2014 Vol. 101, No. 4. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor; Richard Treptow, Proofreader; Frank Jarzembowski, Publications Business Mgr. Address: 1400 Renaissance Dr., Suite 312, Park Ridge, Illinois 60068; 847/391-9091. Subscription rates: \$15 per year. Frequency: monthly-September through June.

SPONSORS NEEDED FOR STATE FAIR CHEMISTRY TENT PROJECT

We are looking for individuals and companies to help sponsor our tent this year. In return for financial contributions, we will display your company's name at the front of the tent as a sponsor and on CDs with information given to over 300 teachers throughout the state of Illinois as well as Missouri, Iowa, and Indiana. **This is a great way to get your company recognized in the public and to promote chemistry!** If you are interested in making a donation to help keep this worthwhile public outreach project going strong, please call the Section office at (847) 391-9091. Thank You!

CHERLYN BRADLEY
Chair,
Illinois Sections of the ACS Cooperative State Fair Project

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!