

theCHEMICALbulletin

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JANUARY • 2007

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Regular Dinner Meeting

FRIDAY, JANUARY 19, 2007

Colletti's Dining & Banquets
5707 N. Central
Chicago, IL 60646
773-775-5144

DIRECTIONS TO THE MEETING

From Downtown Chicago:

Go west towards O'Hare on the Kennedy Expressway, exit at Central Avenue, go north (right) about 1.5 miles to the corner of Elston and Central.

From Western Suburbs:

Take I-355/53 to I-90 East, then continue on Kennedy Expressway and exit at Nagle Ave. Go up the ramp and make a left and just cross over the expressway to Bryn Mawr Ave. Then make a right turn. Continue on Bryn Mawr about 1.5 miles to Central Ave. Make a left and go about 1 block to Elston.

From Northwest Suburbs:

Take Edens Expressway south to Touhy. Go West on Touhy to Niles Center Road. Turn left, going south on Niles Center Road which turns into Central Avenue. Continue to the corner of Elston and Central.

From Lake Shore Drive:

Take Lakeshore Drive to Foster Avenue, go west about 6 miles to Elston Avenue. Turn right onto Elston Ave. Proceed northwest about 2 miles to the corner of Central and Elston Avenue.

From 294 North or South:

Go to I-90 East Kennedy Expressway and exit at Nagle Ave. Then follow the directions given above for the western suburbs.

PARKING: Ample parking in large parking lot, free valet parking, or street parking available.

JOB CLUB 5:30 - 6:30 p.m.

SOCIAL HOUR 6:00- 7:00 p.m.
Cash Bar

DINNER

7:00 p.m.

Dinner reservations are required and should be received in the Section Office via **phone** (847-647-8405), **fax** (847-647-8364), **email** (chicagoacs@ameritech.net), or **website** (<http://ChicagoACS.org>) by noon on Wednesday, January 17. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

MENU: Entrée choice of Broiled Scrod with Creamed Lemon Sauce, Sirloin Butt Steak with sautéed Mushrooms, or Vegetarian Pasta; Dinner includes minestrone soup, Caesar salad, pasta with tomato basil sauce, Italian style green beans, rolls and butter, choice of beverage and chocolate sundae for dessert.

The cost is \$30 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section 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.

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 up to 3 CPDU's.

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!

GENERAL MEETING

8:00 p.m.



Dr. Francesca Casadio, A. W. Mellon Conservation Scientist, The Art Institute of Chicago

Title: "A World Class Collection Under the Microscope: Scientific Research at the Art Institute of Chicago"

Abstract: Although science and art are often seen as antithetical terms, nowadays behind the scenes of many prestigious cultural institutions there are laboratories equipped with state of the art scientific instrumentation to enhance our understanding and long-term preservation of works of art.

In this talk, examples of both applied and fundamental research carried out at the Art Institute of Chicago in the past few years will be presented. The presentation will discuss case studies involving examination of a variety of artifacts with many of the tools of the analytical chemist: from the study of ancient Chinese bronzes and jades with the advanced tools of synchrotron radiation x-rays and Raman microscopy to

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(continued from page 1)

the development of Surface Enhanced Raman Spectroscopic methods for the analysis of natural red dyestuffs used for dyeing ancient textiles and as lake pigments in paints. The latter research has recently won Dr. Casadio and her research team the L'Oreal Art and Science of Color's Silver Prize award.

Biography: Francesca Casadio joined the Art Institute of Chicago as its first A.W. Mellon Conservation Scientist in July 2003, establishing and directing its conservation science program. Dr. Casadio has also been instrumental in developing and managing a pioneering collaborative program in conservation science with Northwestern University (www.matsci.northwestern.edu/aic).

Francesca Casadio received her Ph.D. and M.S. degrees in chemistry from the University of Milan, Italy. Prior to her appointment to the Art Institute of Chicago, Dr. Casadio was research fellow in the Science Department at the Getty Conservation Institute, Los Angeles, then at the Italian National Council of Research in Milan.

Her current research interests focus on vibrational spectroscopies, investigations of artists' techniques, and applications of synchrotron radiation techniques to studies of museum objects.

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EDITORIAL

Welcome to the January 2007 issue of *The Chemical Bulletin*. We hope you had a good holiday season and are looking forward to a new year of information related to chemistry and chemists in the Chicagoland area.

Among the items in this issue, you will find letters from our Chair and our Immediate Past Chair. Our "ChemShorts for Kids", written by Kathleen Carrado of Argonne National Laboratory, is our long-running feature column and continues to be our most popular regular column.

Two other columns that range from "regular" to "periodic" publications are our "ALMA e-NEWS", written by Wayne Collins, a member of the Analytical Laboratory Managers Association (ALMA) and our Women Chemists Committee's "WCC Column", written by our Section members about women chemists.

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

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

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

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

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

We continually need advertisers to maintain the vitality of the *Chemical Bulletin*. How about recommending this publication as a way of advertising to your suppliers and colleagues and for your own business. Our rates are reasonable and we reach out to 4,600 readers. We accept ads for products, services, and employment opportunities. If you are interested or you know

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

Do you know that you can also get the *Chemical Bulletin* online? Visit the section's website www.chicagoacs.org and click on "Chemical Bulletin online". The electronic version of the *Chemical Bulletin* increases readership and exposure for our advertisers while decreasing publication costs.

Some of our members have indicated that they prefer the electronic version rather than the mailed hardcopy. What is your preference?

CHERLYN BRADLEY, EDITOR
(cbrad1027@aol.com)



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ANALYSIS FOR THE CHEMICAL ELEMENTS

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GREETINGS FROM THE CHAIR

It is the beginning of a new year, and that means the members of the Chicago Section have to break in a new chair. Our thanks go to Barbara Moriarty for leading the section as the 2006 Chair. She has been very generous with her time helping me to learn about the various section activities. I am looking forward to an exciting and active year.

You are probably aware that we are the host section for the Spring ACS National Meeting in March. Volunteers are needed during this meeting. Our hospitality booth will provide help to meeting attendees regarding interesting things to see and do in Chicago, restaurant recommendations, directions around town, and miscellaneous information and assistance. Our community outreach program on Saturday, March 24, needs coordinators at each of the project sites. Please let us know if you can volunteer a few hours of your time to make our national meeting a success.

Our section has a monthly dinner meeting with an interesting presentation by a speaker with ties to the world of chemistry. Some meetings will have a topical speaker before dinner; and our Job Club meets before most of the monthly meetings. You can find the details of each meeting in the *Chemical Bulletin* or on the ACS Chicago Section Website: <http://chicagoacs.org>. The Section sponsors activities for Earth Day, National Chemistry Week, and the Illinois State Fair. All of these events need help from section members.

Are you inspired to volunteer for some of these activities or other section programs? Do you have any questions, comments, or suggestions? (You can't have any complaints yet; it's only January!) Visit the section website, find the green "Contact the Chair" button, and send me an email. You will get a timely response and whatever information you need. The section belongs to the 4,600 ACS members who reside in the Chicago area. Get involved and get some satisfaction! I look forward to hearing from you.

KEN FIVIZZANI
CHICAGO SECTION CHAIR

NOTE: The March issue will be the special National Meeting in Chicago issue. IT WILL ALSO CONTAIN THE REGULAR MARCH MONTHLY DINNER MEETING INFORMATION.

"CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column. They hope that it will reach young children and help increase their science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary school teachers. It is hoped that teachers will incorporate some of the projects in this column into their lesson plans.

A Dry Ice Demo

Kids, what causes the "smoke" from bubbling beakers and flasks in TV shows and movies? Dry ice is another name for the solid form of carbon dioxide (CO₂). It is colder than water ice but can be handled safely for short periods of time with insulating gloves. There is a video of the classic dry ice fog demonstration on-line (at http://www.metacafe.com/watch/286601/dry_ice/), with a twist. After water is added to the dry ice to create a smoky fog, hand soap is squirted into the mix. The resulting cascade of bubbles is fun, but what makes this video really interesting is the bubbles vanishing in a puff of fog when they are touched.

To try this at home, we recommend an adult partner only for handling the dry ice, using tongs and insulating gloves (such as leather gardening gloves). A double Styrofoam cup makes a good container, and we suggest putting this inside a secondary container (like a dishpan, for example).

Dry ice is so called because it does not melt into liquid carbon dioxide before turning into gas. The process of a liquid changing into gas is called evaporation. When a solid changes directly into gas, the process is called sublimation.

The white cloud that forms is not smoke, but rather condensed water vapor. Tiny droplets of water make the white cloud. The clouds almost immediately disappear because the water droplets warm right back up and re-evaporate back to form invisible water vapor. This is how fog forms: when it is humid enough and the temperature drops enough you get lots of tiny water droplets forming.

Notes:

Your adult partner can get dry ice from a specialty gas company, such as one that deals in oxygen, helium, and nitrogen, or from stores that ship perishable food. Bakeries and seafood shops can often provide a good lead, or a popular restaur-

(continued on column 3)

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rant could be asked if they carry dry ice. Dry ice is cold enough to cause frostbite so protective gloves are necessary. Also, be aware that extra carbon dioxide is added to the air as dry ice vaporizes. Carbon dioxide is naturally present in air, but under some circumstances, the extra amount can be a health hazard.

References:

Dr. Anne Marie Helmenstine at http://chemistry.about.com/About_Chemistry.htm

EDITED BY K. A. CARRADO,
ARGONNE NATIONAL LABORATORY

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

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TODAY, TOMORROW AND BEYOND – THE YEAR 2006

It has been an honor to be Chair of the Chicago Section during 2006. As a past chair expressed to me, every year has its challenges and so each chair has his/her challenges. This has certainly been true this year, as you will see below. I wanted to share my thoughts on what we have accomplished during 2006. As you will recall, I expressed my platform with the phrase – Today, Tomorrow and Beyond. Under each category, are my thoughts.

TODAY – I said at the start of 2006 that we needed to do more to provide programs and services for our members TODAY. Thanks primarily to Dr. Paul Young, in November, we had a program to deal with career issues. Ms. Valerie Kuck, who was recently elected to a three-year term on the ACS Board of Directors, gave a workshop to approximately 26 individuals. The workshop was well received, and hopefully we can do more in this area in the coming years.

I also proposed to see if some of our programs could be provided to a greater number of members, maybe by web casting the meetings, or using some other more recent technology. Our webmaster, Milt Levenberg is looking into this for us and should have some answers soon.

TOMORROW – At the start of the year, I mentioned several activities that could help our membership TOMORROW. These activities include the State Fair, Dupage Area Engineer's Week, Chemistry Day and Earth Day. We, along with other ACS local sections from Illinois, had a tent at the Illinois State Fair again this year. We presented a variety of exciting chemistry demonstrations and hands-on activities suitable for young students, as well as an interactive simple chemistry quiz. Literature on environmental issues, lists of educational resources, and ACS activities for students, science teachers, and the general public were available. This year, the tent had a total of 13,216 visitors, an 11% increase over last year. I want to say a big thank you to all those who made this happen, especially the chairs of the Chicago section committee, Dr. Cheryl Bradley and Ms. Fran Kravitz.

We again participated in the Dupage Area Engineers Week. The Chicago Section has had a display at this event for quite a few years. In 2006, the theme was "Women in Engineering." Thanks to Ms. Mary Newberg, we had some displays showing the impact

women have had in Chemistry. This event is continuing in 2007 – Saturday, February 24, 2007.

Thanks again to Ms. Mary Newberg, we participated in Earth Day for the first time in 2006. With the cancellation of Chemistry Day (see below) in 2006, we plan to put more emphasis on Earth Day in 2007.

In addition, we have been trying to promote the Legislative Action Network (LAN). As you know, the 2006 president of the ACS, Dr. E. Ann Nalley, is trying to increase the number of LAN members. If you haven't joined this program and have web access, please join so our legislators at the national level may hear your thoughts/ideas.

BEYOND – Finally, we all know that the future is the children. The biggest disappointment to me and, thus, my biggest challenge was the cancellation of Chemistry Day. After all the planning for the event, we had to cancel the event, scheduled for Saturday, October 28, 2006, due to unforeseen circumstances. I want to thank all those who put a lot of hours into planning for this event, especially Dr. David Crumrine and Dr. Keith Kostecka. Because of the cancellation, we are looking forward to doing more for Earth Day next year, April 22, 2007. The theme is "Recycling – Chemistry Can."

As many of you know, we have had a number of fine presentations at our monthly meetings. Two meetings especially, the February and November meetings, are of particular note because of the large number of students who attended. I wanted to thank those who made these two meetings happen -- Mr. Frank Jarzembowski, Dr. James P. Shoffner and Dr. Keith Kostecka.

In closing, I want to thank every member of The Chicago Section of the American Chemical Society. The Chicago Section cannot do anything without you, its members.

BARB MORIARTY
IMMEDIATE PAST CHAIR

JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on **Friday, January 19 at 5:30 p.m. at Colletti's Dining & Banquets**. The meeting will include a review and discussion of some of the tools that a chemist can use to conduct a job search.

The Job Club provides a continuing opportunity for unemployed members of the Section to meet with one another, share their experiences and develop a network that may help in identifying employment opportunities. Bring plenty of resumes and business cards to distribute to your colleagues. Be prepared to talk about 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.



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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 Chemical Bulletin covering topics such as networking, career development, and vignettes of women in chemistry. This month's topic is about Sharon Vergez Vercellotti.

Sharon Vergez Vercellotti is President of V-LABS, INC., Covington, LA, a consulting, manufacturing, and analytical laboratory, specializing in carbohydrates and polysaccharides.

Sharon feels that women need to be involved in chemistry and science. She said, "Women can display talents and express themselves using their talents, and personal abilities to relate to people. Using their knowledge and instincts relating to people, women are able to solve problems effectively".

This Louisiana native received her B.S. in chemistry from Louisiana State University and M.Sc. in chemistry from The Ohio State University. Sharon says she entered the field of chemistry because she liked science. She said that it was a toss up between chemistry and physics until she took freshman chemistry and enjoyed the labs and experimentation. Sharon says that her family instilled in her the love of science by questioning things: how things work, how things in nature occur and general curiosity. Mom was a public health nurse and Dad was working with soldering and welding in his machine shop. Science projects were always part of her growing up.

Sharon is author of eleven scientific journal articles and one book chapter, and has given numerous national, regional, and local invited presentations. She served as National Editor of the Iota for Iota Sigma Pi from 1997 until 2002. Sharon joined the Chlorine Chapter of Iota Sigma Pi in 1962 as an undergraduate, and served as its vice-president from 1991-95 and president 1995-97. During her term, she instituted the program "Super Science Saturday" with an Iota Sigma Pi Minigrant. It was held three years at the Louisiana Children's Museum in New Orleans where children enjoyed all the hands-on experiments.

Sharon Vercellotti is a member of the Sigma Xi, honorary research society and the American Chemical Society Carbohydrate Division. She has been very active in the ACS Division of Small Chemical Businesses and has served as chair, chair elect, secretary and currently alternate councilor for this division. She has been President of the American Association of University Women of Louisiana, and Vice

President of Board of Directors for the Louisiana Alliance for Biotechnology. She served as a member of the advisory committee the National Science Foundation's Industrial Innovation Interface (III) for five years from 1989-1994. She is listed in Marquis "Who's Who in Science and Engineering", and "Who's Who in America".

In recognition of Vercellotti's contributions to chemistry she received the Iota Sigma Pi Award for Professional Excellence (1999). In 2001 she received a grant from the Camille and Henry Dreyfus Foundation for Iota Sigma Pi to use to help defray some of the costs of publishing the "Centennial History of Iota Sigma Pi". Anne Sherren (author of this WCC article) and Sharon Vercellotti were coeditors of this history. In 2005 Sharon was included in the book "Successful Women in Chemistry Corporate America's Contribution to Science", ACS Symposium Series 907, edited by Amber S. Hinkle and Jody A. Kocis. This book was sponsored by the ACS Women Chemists Committee and included 25 outstanding women.

Since her founding of V-LABS in 1979, Ms. Vercellotti has served continuously as a mentor to a number of high school and college students at her laboratory. Many of the students have pursued studies and careers in the sciences. V-LABS' fourth Ph.D. student in chemistry graduated in 2006. Sharon has also given numerous demonstrations for local students and has participated in judging many local, regional, and state science fairs.

Ms. Vercellotti and her husband John have two children, Ellen, an art teacher, and Paul, a computer engineer.

ANNE T. SHERREN

Public Affairs Awardee

The Public Affairs Committee is very pleased to announce that **Mr. Lee Marek** is the 2007 Public Affairs Award recipient. Mr. Marek has impacted generations of students during a full career as a full-time at Naperville High School. He has been an outstanding ambassador of science as an entertainer and educator including, among many others, 21 appearances on the David Letterman Show. He has provided powerful motivation through creation and development of AgWeird Science's educational demonstrations and is the author of many science education and motivational materials.

The award will be given at the Public Affairs Award Meeting on Friday, March 16 at the Cafe La Cave. More details will appear in the March Chemical Bulletin and on the Section website, www.chicagoacs.org.

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PBS DOCUMENTARY TO HONOR CHEMIST PERCY JULIAN

The life story of pioneering African American chemist **Percy Julian**, Ph.D., is the subject of a two-hour PBS/NOVA documentary scheduled to be broadcast on Feb. 6, 2007, during Black History month. The American Chemical Society in September hosted a symposium honoring Julian at its 232nd National Meeting in San Francisco.

NOVA described the documentary, called "Forgotten Genius," as "a first-time portrait of this remarkable American chemist." The film is part of NOVA's Lives in Science series.

Percy Lavon Julian was born in Montgomery, AL, on April 11, 1899. The son of a railway clerk and the grandson of slaves, his early schooling was spotty in the segregated South of the early 20th century. Even so, he was accepted as a freshman at DePauw University in Greencastle, IN, at the age of 17. He graduated first in his class in 1920. He then taught for two years at Fisk University before enrolling in a Master's program at Harvard.

In 1929, a Rockefeller Foundation grant enabled Julian to study natural products chemistry at the University of Vienna, where he received his Ph.D. In 1933, he returned to DePauw as a research fellow where he conducted research that led to the synthesis of physostigmine, a drug used in the treatment of glaucoma. This discovery was commemorated by the American Chemical Society as a National Historic Chemical Landmark in 1999 (<http://acswebcontent.acs.org/landmarks/landmarks/plj/index.html>).

Denied a faculty position at DePauw, Julian turned to industry, accepting a position as director of research for the Soya Products Division at the Glidden Co. in Chicago. Over the next 18 years, his research produced numerous patents and successful products for Glidden, including a paper coating and a fire-retardant foam used widely during World War II to extinguish gasoline fires. His biomedical research made it possible to produce large quantities of synthetic hydrocortisone and progesterone at low cost.

In 1953, he established Julian Laboratories, which he sold eight years later for \$2 million dollars. In 1973, he was elected to the National Academy of Sciences. Julian died on April 19, 1975.

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ALMA E-NEWS

Chemical Hygiene Officer

Most laboratories have a staff member designated as the Chemical Hygiene Officer as either a secondary or full-time responsibility. This position is mandated by the OSHA Laboratory Standard which requires that the individual be "qualified by training or experience to provide technical guidance...". Duties defined in the standard include 1) development, implementation, and improvement of the Chemical Hygiene Plan, 2) monitoring the procurement, use, and disposal of chemicals, 3) knowing the legal requirements of regulated substances in the lab, 4) conducting audits and performing evaluations, and 5) developing a safe working environment. This function carries a legal responsibility as the company's representative for laboratory safety and the individual assigned should be given full management support to develop as a safety professional. A thorough knowledge of OSHA's general industry standards is essential in ensuring compliance with federal, state, and local regulatory requirements.

It is also important for the lab manager

to provide staff resources to assist in this function and to react positively to any safety issues uncovered during the audits or evaluations. As we plan for the year, make sure that the importance of this function is not overlooked. Reinforce your expectations and the legal obligations by defining objectives with your Chemical Hygiene Officer.

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

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

WAYNE COLLINS
wayne.collins@thermo.com

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REMEMBRANCE OF SECTION MEMBERS

During 2006, we have seen the passing of a number of section members. We would like to remember these section members at the January 2007 Section meeting. The chair will read the names of the section members who have passed and we will observe a moment of silence. If you have anyone you want to add to this list, please let the office know by either phone (847-647-8405) or email (chicagoacs@ameritech.net).

In addition, if you have pictures or other memorabilia, we will be preparing a poster for display at the front table at this meeting.

CALENDAR

January 19, 2007: Chicago Section's monthly dinner meeting. **See details in this issue.**

January 27-31: The Association for Laboratory Automation (ALA) will hold its LabAutomation2007 Conference in Palm Springs, CA. For more information, contact Anne O'Day at (630) 305-0003 or aoday@labautomation.org.

February 22: Chicago Section's monthly dinner meeting held jointly with AIChE. Note that this meeting is on a Thursday. Dr. Bruce Cook, Exxon Mobil Research, is the after-dinner speaker.

February 24: DuPage Engineers Week at IIT's Rice Campus, Wheaton, IL, beginning at 11:00 a.m. Stay tuned for further details.

February 25 - March 2: PittCon Conference and Expo, McCormick Place, Chicago, IL. For information, go to www.pittcon.org.

March 16: Chicago Section's Public Affairs dinner meeting at Café La Cave.

March 25-30: The 233rd ACS National Meeting, Chicago, IL.

March 30: Two-day Lab safety Short Course hosted by the Laboratory Safety Institute, Naperville, IL. For details, go to <http://www.labsafety.org>.

April 22: Chemists Celebrate Earth Day - The theme is "Recycling – Chemistry Can"

April 20: Chicago Section's monthly dinner meeting. Gabriela Weaver, Purdue University, is the after-dinner speaker.

May 18: Chicago Section's Gibbs Award banquet and meeting.

June 21: Chicago Section's monthly dinner meeting held jointly with YCC. Note that this meeting is on a Thursday. Ruth Ann Armitable, Eastern Michigan University, is the after-dinner speaker.

August 10-19: ACS Illinois Sections' cooperative tent project at the Illinois State Fair. For further information on this activity, contact the section office at (847) 647-8405.

September 28: Chicago Section's monthly dinner meeting. Roald Hoffmann, Cornell University, is the after-dinner speaker.

October 18: Basolo Medal Award joint dinner meeting of the Chicago Section ACS and Northwestern University.

November 16: Chicago Section's Education Night dinner meeting. Zafra Lerman, Columbia College Chicago, is the after-dinner speaker.

DID YOU KNOW?

The Chemical Bulletin is online at
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