

theCHEMICALbulletin

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FEBRUARY • 2006

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Joint Meeting with the American Institute of Chemical Engineers

Hosted by Abbott Laboratories

WEDNESDAY, FEBRUARY 8, 2006

Abbott Laboratories
1401 Sheridan Road
(Enter southeast corner of 10th and
Sheridan Road)
North Chicago, IL
847-937-6100

DIRECTIONS TO THE MEETING

From US 41 or Interstate 94: Take Buckley Road (Route 137) east to Sheridan Road. Turn left and proceed north. At the intersection of Sheridan and 10th street turn right (east) into the north end (north gate) of the Abbott Campus.

Check in with the guard and get your Visitor's Pass. Only those who have pre-registered will be admitted. Bear right at the 1st stop sign and enter the first parking lot (lot S) on your right at the 2nd stop sign. Signs will direct you to Building A-4. We will meet in the cafeteria.

PARKING: Free

JOB CLUB 5:30 - 6:30 P.M.

SOCIAL HOUR 5:00 - 6:30 P.M.

ACS REGISTRATION TABLE: ACS members and guests need to sign in and make payment (cash or check; no credit cards accepted) at our table in the cafeteria to get their badge and sign up for tours of the facility.

TOURS 5:00 - 6:45 P.M.
Tours of Abbott's High Potency Drug Facility will be available. The number of tours is limited and will be given on a first-come basis. Arrive early!

DINNER 6:30 P.M.

You will NOT be allowed into the



Abbott facility without your name on the reservation list. 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 Wednesday, February 1. No walk-ins will be permitted. **Registration is a must.**

PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

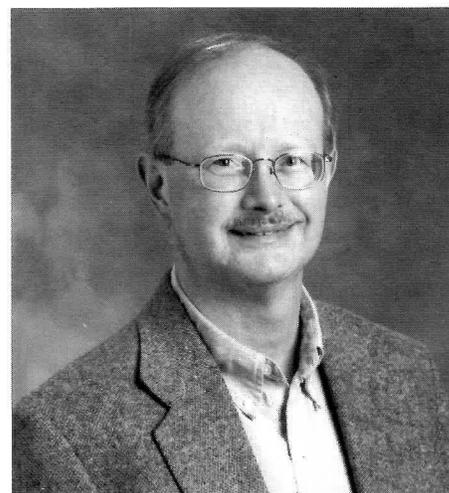
MENU: Dinner will be served buffet style with entrée choices of Chicken Piccata or Baked Tilapia.

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

GENERAL MEETING 7:30 P.M.

Topic: "The Chemistry and Manufacturing of Potent Drugs"

There will be two speakers, **Howard Morton** (pictured) and **David McAlonan**, both of Abbott Labs. They will provide insight into the development and manufacturing of potent drugs. Potent drugs are compounds where the daily dose is 10mg or less. The challenge in handling potent compounds is to do so effectively without ingesting a dose.



Dr. Howard Morton, Director of Process Chemistry, Abbott Laboratories

Talk Title: "Challenges in the Large Scale Synthesis of Potent Drugs"

Biography: Dr. Howard Morton received his B.S. degree in Honors Chemistry at the University of British Columbia in 1976. He continued there for his graduate work with Professor Edward Piers developing the first useful trialkyltin-cuprate reagents for organic synthesis obtaining his Ph.D. in 1981. After starting his career in Pharmaceutical Research at Merck Frosst, he joined

(continued on page 2)

NOTICE TO ILLINOIS TEACHERS

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

(continued from page 1)

the Abbott Laboratories Process Chemistry group in 1988 as a Senior Research Chemist. There he has distinguished himself in developing novel and efficient chemical reactions applicable to Abbott's clinical candidates.

Howard is the inventor or co-inventor of processes directed towards: Renin Inhibitors; HIV Protease Inhibitors - Ritonovir and Lopinavir; PAF Antagonists; and Oncolytics among others. Currently he is Director of Process Chemistry at Abbott Laboratories. He has authored or co-authored more than 60 scientific papers and patents and has served as a member of the Organic Process Research and Development Editorial Advisory Board.

Dave McAlonan, Sr. Program Manager, Global Engineering Services, Abbott Laboratories

Talk Title: "Design and Engineering for the Global R&D Development-Center of Oral Dosage Forms"

Biography: David McAlonan is a Senior Program Manager in Global Engineering Services for Abbott Laboratories located in Abbott Park, Illinois. He has a B.S. degree in Chemical Engineering and has more than 30 years of professional experience developing and implementing projects primarily in the chemical and pharmaceutical industries. David has been with Abbott Laboratories for about 20 years holding several positions in Operations Management, Project Management and Program Development. Over the past four years, his main focus has been in the development of a Potent Drug Containment Program for the Global Pharmaceutical Research & Development division. This program is made up of about 20 projects over a five-year period to implement potent drug containment projects within R&D on a scale up basis from laboratory scale (under 1 kilogram) to pilot plant facilities (up to 75 kilograms) and address the tech transfer to commercial facilities beginning with a 300 kilo scale. This program involves both API and final drug compounding for clinical deliveries.

POP TOP RINGS COLLECTION

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

JOB CLUB

The next meeting of the Chicago Section ACS Job Club will be held on **Wednesday, February 8 at 5:30 p.m.** at Abbott Labs. The meeting will include a review and discussion of some of the tools that a chemist can use to conduct a job search.

Note: Since we are meeting at a company site, you will NOT be allowed into the Abbott facility without your name on the reservation list. Please call the Section office at Wednesday, February 1 to be put on the admittance list. Please indicate at the time of your call that you are attending the Job Club.

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

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group has critiqued some individual resumes and made suggestions for improvements in a positive way!

The Job Club is also for employers seeking chemists. Employers need to be prepared to describe the positions to be filled and requirements for these positions.

Should you wish to attend the Section's dinner meeting following the Job Club, the cost is \$14 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount. **Deadline for dinner registration is Wednesday, February 1.**

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!

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"CHEM SHORTS" For Kids

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

A Borax Snowflake

Kids, do real snowflakes melt a little too quickly for your full enjoyment? How about growing your own out of borax, coloring it blue if you like, and enjoying the sparkle all year long! Here is what you need: string, a wide-mouth pint-sized jar, white pipe cleaners, borax (see tips), a pencil, boiling water, optional blue food coloring, and scissors. Here is what you do —

1. Cut a pipe cleaner into three equal parts.
2. Twist the sections together at their centers to form a six-sided snowflake shape. This will be your scaffold or template. If an end isn't even, just trim to get the desired shape. The snowflake scaffold should fit inside the jar.
3. Tie the string to the end of one of the snowflake arms. Tie the other end of the string to the pencil. You want the length to be such that the pencil hangs the snowflake scaffold freely into the jar (not touching the bottom of the jar).
4. Take the snowflake scaffold out of the jar and ask your adult partner to fill the jar with boiling water.
5. Add borax powder, one tablespoon at a time, to the boiling water. Stir to dissolve after each addition. Use 3 tablespoons of borax per cup of water (1 pint = 2 cups). It is okay if some undissolved borax settles to the bottom of the jar.
6. If desired, you may tint the mixture with food color.
7. Hang the pipe cleaner snowflake into the jar so that the pencil rests on top of the jar and the snowflake is completely covered with liquid.
8. Let the jar sit in an undisturbed location overnight.
9. The next day, look at your pretty crystals! Remove the snowflake, dispose of the liquid down the drain, and re-hang the snowflake until it is dry. Then you can hang your snowflake as a decoration or in a window to catch the sunlight.

What is the chemistry here? This can

be considered an example of geochemistry. Borax is a complex borate mineral of composition $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ (hydrated sodium borate). It is formed in deserts from the evaporation of water in temporary lakes called playas. The playas form only during rainy seasons due to runoff from nearby mountains. The runoff is rich in the element boron and is highly concentrated by evaporation in the arid climate. Eventually the concentration is so great that crystals of borax and other boron minerals form.

Tips:

1. Borax is available at grocery stores in the laundry soap section, (e.g. 20 Mule Team Borax Laundry Booster). Do not use Boraxo Soap.
2. Because boiling water is used and because borax isn't intended for eating, adult supervision is recommended.
3. If you can't find borax, you can use sugar or salt. In these cases, the crystals will take longer to grow, so be patient. Add sugar or salt to the boiling water until it stops dissolving. Ideally, you want no crystals at the bottom of the jar.

Reference: Dr. Anne Marie Helmenstine at <http://chemistry.about.com/cs/howtos/ht/boraxsnowflake.htm?nl=1>

EDITED BY K. A. CARRADO,
ARGONNE NATIONAL LABORATORY

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

CONTACT THE CHAIR

Do you have any questions, suggestions, recommendations, ideas, gripes, complaints, or pet peeves relating to the Chicago Section? Do you want to volunteer, help out, or lend a hand with Section programs or activities? Then contact your Chair. Simply log onto the Section's Web Page at <http://chicago.acs.org>, find the green button "Contact the Chair", and send me an e-mail. If I can answer your query I will respond personally. If I can't I will forward your e-mail to someone who can, or try to provide you with a contact — all in a timely manner. The Section belongs to you and the other 4,800 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. But you can also make it fail by not being involved. I look forward to hearing from you.

BARBARA MORIARTY
CHICAGO SECTION CHAIR

February, 2006 Vol. 93, No. 2.
Published by the Chicago Section of The American Chemical Society,
Editorial Staff: Cherlyn Bradley, Editor; Fran Kravitz, Copy Editor; Fadwa Al-Taher and Richard Treptow, Proofreaders; Frank Jarzembowski, Publications Business Manager. Address: 7173 North Austin, Nilas, Illinois 60714; 847/647-8405. Subscription rates: \$15 per year. Frequency: monthly-September through June.

2006 PUBLIC AFFAIRS LECTURE

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

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CLIMATE CHANGE FORUMS

In 2006, The Adler Planetarium and Astronomy Museum will present a series of public forums throughout the metropolitan Chicago area that will bring together a coalition of informal learning institutions, universities, corporations and professional groups to create a continuing community dialogue about the prospects for climate change including historical evidence, magnitude, policy implications and remediation. The Chicago Section of the American Chemical Society is part of this coalition. Current public debate illustrates the need for informed citizens to understand the scientific data and models that underlie estimates and predictions for humanities effect on our planet.

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

Forum 1: "Global Climate Change: How Much, How Soon, How Do We Know?"

Adler Planetarium & Astronomy Museum
February 25, 2006
Time: 10am — 12pm

The first forum in the series is designed to outline a brief history through three scientific perspectives of climate change. By looking at global climate change through various lines of evidence, we can begin to decipher how we know what we know regarding its causes in order to answer: Can the future of climate change be predicted? What are the forces and feedbacks at work in our climate system today and what do they portend over the next century? Join us as we seek to uncover the truth about climate change projections and implications through current models and simulations that may help decide what our future holds.

Guest Speakers include:

Wally Broecker — University of Columbia
 Gavin Schmidt — NASA Goddard Institute
 Ray Pierrehumbert — University of Chicago

Forum 2: "Is Earth's Ozone Shield Recovering?"

The Field Museum
March 25, 2006
Time: 10am — 12pm

From observations to theory to data collection to smoking-gun proof to international policy, the story of the Antarctic ozone hole has all the makings of a drama with a happy ending, right? No so fast! Despite ongoing expectations that the ozone hole will recover, we have yet to see evidence that a recovery is underway. Why was so much ozone lost so fast? Why hasn't it recovered? What is the status of the ozone hole today? What are the chemicals that destroy stratospheric ozone, where do they come from, and what exactly makes them so destructive to our health? Will the ozone shield ever recover and, if so, when?

Guest Speakers to be announced at a later date

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

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

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

Guest Speakers to be announced at a later date

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

Place: TBD
June 3, 2006 Time: 10am — 2pm

Forum four will explore energy issues we currently face and potential remedies to reduce emissions over the next century. The Director of Argonne National Laboratory, Bob Rosner, will discuss solutions to the problem and how Argonne is moving towards cleaner energy production. Also hear from Former CIA Director James Woosley, how climate change affects issues of national security, and from world-renowned architect William McDonough, how the future of architecture and "green building" can lead to more energy efficient designs.

Guest Speakers include: Bob Rosner — Director of Argonne National Laboratory (others to be announced)



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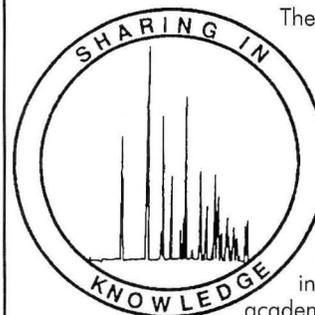
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Cost is \$595 (books and lunches included)..

WCC COLUMN

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

Our featured woman chemist this month is a warm, friendly lady who is also a loving mother, wife and doting grandmother. When asked what she was doing for the holidays she eagerly answered, "I'm flying to be with my son and his family for Thanksgiving and for Christmas I'm having everyone here." She has always been proud of her sons, which now includes her grandsons. When asked why she chose to start her career in academia, she said, "So my husband could finish his Ph.D." She enjoys interacting with students and especially discussing with the graduate students what they are discovering and learning.

When I asked her why she went into chemistry she replied, "I liked the labs! They are fun!" She got hooked on chemistry because she liked her college freshman chemistry teacher who was interested in students. Mary said "All women should serve as role models for students in academia and where ever we are. In academia, we need to affect students with the idea that science and especially chemistry is FUN!" Her interesting plans for the future are to complete her current commitments with the University of Arkansas in Little Rock.

Most of us know the chemist Mary L. Good by name, but I have tried to show that here is a warm human who is fun to talk to and be with — whether visiting by phone, in the lobby, or over a bite to eat. Mary, if given a chance, likes to be with the women chemists. When she had been at Chemistry Day, there was a luncheon for both the dignitaries and one for Iota Sigma Pi members. Mary slipped into a chair by me at the Iota Sigma Pi luncheon and said, "I wanted to come be with my women friends and I skipped the lunch with the ACS officials". This was the current president of the American Chemical Society slipping in to eat at my table at the Iota Sigma Pi luncheon.

For those of you who are not familiar with Dr. Mary L. Good, the chemist, a brief sketch follows. She has had many titles. Listed here are a few of the titles and her three separate, successful careers. First Dr. Good was in

academia as a college Professor of Chemistry at both the University of New Orleans and at Louisiana State University. From the chemistry discipline, she moved into Material Science. She held chair positions at both LSU and in New Orleans. Mary Good then moved into industry where she held positions as the President-Director of Research for Technology and Engineered Materials Research at Allied Signal and Vice President - Director of Corporate Research for UOP in Chicago. Her final industry role was as Senior Vice President for Technology at Allied Signal, where she was also a member of the Management Committee.

We then found Dr. Good in government positions under Presidents Carter, Reagan, Bush and Clinton. Mary Good was Under Under-Secretary, Technology Administration of the US Department of Commerce. She held numerous positions involving National Science Policy, including Chair of the National Science Board. Currently, she is Dean of the College of Information Science and Systems Engineering at the University of Arkansas Little Rock, Donaghey University Professor.

Dr. Good's professional memberships and offices held include: American Chemical Society — 50 year member, President, Board of Directors and Board Chairman; American Association for the Advancement of Science, President and Fellow; elected member, National Academy of Engineering; Royal Society of Chemistry (British) fellow; Royal Swedish Academy of Science; American Institute of Chemists; Sigma Xi, Iota Sigma Pi; Alpha Chi Sigma; Research Directors of Chicago Association; Catalysis Club of Chicago. Many of these organizations have bestowed honors on Mary Good. She is a holder of the Priestley Medal from the American Chemical Society, to name one of her many honors.

Other professional activities and board memberships include: Advisory boards for NASA, Oak Ridge Associated Universities, National Bureau of Standards, NSF, Chemical Technology Division of Oak Ridge National Lab, Catalysis Program of Lawrence-Berkley Laboratory, and many more. She also sits on Corporate Boards, including Biogen Idec and Acxiom.

This Texas native received her B.S. in Chemistry from the University of Central Arkansas and her M.S. and Ph.D. in Chemistry from the University of Arkansas in Fayetteville. She has approximately 100 articles in referenced technical journals, several publications on science policy and one book. Her biography runs five pages in length.

At one ACS meeting, I heard her presentation on ruthenium chemistry. Another member of the audience stated

at the end of her talk "Mary Good can present more facts in 20 minutes than most of us can do in an hour." Mary Good has accomplished much because she organizes her life and work and has capable people who help her. I count it as an honor to consider her my friend.

ANNE SHERREN

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SCIENCE CAMPS FOR YOUNG WOMEN

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

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

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

ALMA E-NEWS

Importance of the Lab Safety Watch Person

Most laboratories have some experiments that require a second person to be present for safety reasons especially when performed after hours, such as with refluxing extractions. However, the role of this safety backup person is often not clearly defined. Actions and procedures to be followed in case of an accident may not have been fully developed beforehand.

Confidence in the safety of our lab procedures may breed complacency so that we view the safety watch person as just a warm body to fulfill a requirement rather than as a true responder to manage an accident. This point was driven home by a recent accident at a neighboring facility when a flask pressurized and exploded during a solvent transfer. The technician performing the task was cut by broken glass and splashed with the solvent. Unfortunately, the safety watch person was unprepared to handle this event, which led to a series of missteps including:

- no MSDS was present to determine the effects of exposure to the solvent
- no first aid kit was used (or existed) for immediate treatment of cuts
- the victim was not placed in the safety shower
- the safety watch person elected to drive the victim to an emergency facility in his personal car (after wrapping him in plastic bags to protect his car seats)

In this case, the safety watch person responded with emotion rather than reason during the chaotic event since a plan had not been worked out beforehand. Preparation for the safety watch person should include a review of all MSDSs for chemicals used in the operation, a first aid kit, a call list, fire extinguishers, appropriate PPE, and so forth. But most importantly, a discussion of an action plan should occur between the technicians before the procedure is started to identify possible dangers and plan appropriate responses.

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

Past ALMA (Analytical Laboratory Managers Association) e-News editions by Dr. Wayne Collins, a former ALMA President, are available at the website <http://www.labmanagers.org/>. This edited one is from the January 2002 issue.

WAYNE COLLINS
wayne.collins@thermo.com

ANNUAL HOLIDAY MEETING

The annual holiday party was held at Holiday Inn Willowbrook on Friday, December 9, 2005. Ninety-seven people attended. The event was held jointly with the Chicago Chemists Club and Iota Sigma Pi. The speaker that evening was Dr. Charles Casey, Professor of Chemistry at the University of Wisconsin-Madison and the 2004 ACS President. He spoke on major societal challenges that chemists and chemistry face that will require advances in basic chemistry, which, in turn, will enable new opportunities for chemists. The evening also included changing of the gavel from our outgoing chair Russ Johnson to our incoming Chair Barb Moriarty.

This year the raffle items included dinners from Drury Lane, Zhivago Restaurant, and the Holiday Inn Willowbrook; gift certificates to Barnes & Nobles from Iota Sigma Pi; wine from the Chicago Chemists Club; a membership from the Chicago Chemists Club; monetary gift from Northrup RTS; lip balm from Blis-tex, Inc.; pens from Argonne National Laboratory; gifts donated by Herb & Adrienne Golinkin; and t-shirts, poinsettias and additional raffle gifts from the Hospitality Committee.

The tradition of collecting food for charity continued this year at the annual holiday party. Each member was asked to bring in a nonperishable item of food to this dinner meeting. About 500 pounds of food were collected, along with \$125 in monetary donations. All collected items were donated to the Loaves and Fishes Community Pantry for distribution. This was a large increase from last year's figures. The Hospitality Committee would like to thank those Section members who participated in this year's food drive and made it such an outstanding success. Much thanks to Fran Kravitz who conducted the raffle and to all our helpers for the night, including Adrienne and Herb Golinkin, Susan Shih, Basel Zaitoun, Prakash Sanjeeviah, Danise Burke, Inessa Gorelik, and Gail Wilkening.

RICHARD CORNELL
HOSPITALITY COMMITTEE CHAIR

Section Speakers Bureau

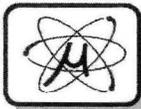
The Section is trying to rejuvenate its Speakers' Bureau. We have had some individuals volunteer to speak at schools, service organizations etc and a few requests for speakers or demonstrators. We are in need of someone willing to take responsibility for compiling a list of volunteer speakers and topics and for getting this information out to area schools, libraries and service organizations. One person has volunteered to help organize this but cannot take on the project without assistance. If you can possibly fit this task into your busy schedule, please call or e-mail the Section office. If you cannot do this but are interested in speaking, please also let us know.

SUSAN SHIH, CO-CHAIR
LONG RANGE PLANNING

DEADLINES FOR CHEMICAL BULLETIN

Please submit all Chemical Bulletin copy to the editor before the deadlines listed below for each issue. Articles can be emailed to the editor, Cherlyn Bradley, **cbrad1027@aol.com**. Since we like the Bulletin to be as timely as possible, we need the lead time indicated. You can help by early planning and submission of your information or articles

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



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DUPAGE AREA ENGINEERS WEEK 2006: WOMEN IN SCIENCE AND ENGINEERING

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

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

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

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

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

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CALENDAR

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

February 25, 2006: Climate Change Forum, "Global Climate Change: How Much, How Soon, How Do We Know?", Adler Planetarium & Astronomy Museum, 10 am to noon. **See article in this issue.**

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

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

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

March 25, 2006: The second Climate Change Forum, "Is Earth's Ozone Shield Recovering?", Field Museum, 10 am to noon. **See article in this issue.**

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

April 22, 2006: The third Climate Change Forum, "Human Footprints: The Impact of Science, Policy and Technology on Climate Change", Northwestern University-Chicago Campus, 10 am to noon. **See article in this issue.**

April 28, 2006: Chicago Section Meeting. Note that this is a **LUNCH** meeting.

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

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

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

June 3, 2006: The fourth Climate Change Forum, "How Can We Continue to Meet Our Energy Needs without Jeopardizing Our Future", Location to be determined, 10 am to noon. **See article in this issue.**

June 23, 2006: Chicago Section Dinner Meeting.

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

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