

The Chemical Bulletin

<http://chicagoacs.org>

FEBRUARY • 2012

**CHICAGO SECTION
AMERICAN CHEMICAL SOCIETY
Joint Meeting With
Northwestern University
Department of Chemistry
FEBRUARY 16, 2012**

NOTE: This is a Thursday Meeting

Zhivago Restaurant & Banquets
9925 Gross Point Road
Skokie, IL
847-982-1400

DIRECTIONS TO THE RESTAURANT:

From Chicago: Take Lake Shore Drive north to Sheridan Road into Evanston. Continue north on Sheridan Road and turn left on Central St. Turn left on Gross Point Rd. and proceed to the restaurant.

From the Northwestern University Tech Institute: Go North on Sheridan Rd. and turn left on Central St. Turn left on Gross Point Rd. and proceed to the restaurant.

From Edens Expressway heading North: Take Dempster east to Gross Point Rd. Turn left on Gross Point Rd. and proceed to the restaurant.

From Edens Expressway heading South: Exit on Old Orchard Road. Go east to Gross Point Rd. Turn right on Gross Point Rd. and proceed to the restaurant.

PARKING is free in the lot. Parking is also available at Keeler and Gross Point Road.

RECEPTION: 5:30 - 6:30 P.M.
Cash Bar

JOB CLUB will meet at Zhivago at 5:30 p.m.

DINNER 6:30 P.M.
(continued on page 2)

GENERAL MEETING 7:45 P.M.



Dr. Emily Weiss, Assistant Professor,
Department of Chemistry, Northwestern
University, Evanston, IL

Topic: "The chemistry of nanocrystals"

Abstract: The most general and
influential feature of nanostructures

(continued on page 2)

IN THIS ISSUE

- | | |
|---------------------------------|----------------------------|
| 2 Dinner Information | 5 In Memory: Sandy Angelos |
| 2 DuPage Area Engineers Expo | 6 Public Affairs Column |
| 3 ChemShorts for Kids | 7 Cheminformatics |
| 3 Section's Awards Website | 7 The Un-Comfort Zone |
| 4 Preview of Public Affairs Mtg | 7 Ad Index |
| 4 College Life Fair | 8 Job Club |
| 4 Chemistry History | 8 Calendar |

(continued from page 1)

is their high surface area-to-volume ratio. The chemistry of the surfaces of nanostructures therefore impact their optical, structural, and chemical properties. We will explore the interaction of colloidal nanostructures – specifically, quantum dots – with the organic ligands adsorbed to their surfaces, and how we can use surface chemistry to enhance the processes within these particles that are desirable for their application in solar energy conversion.

Biography: Dr. Emily A. Weiss is an Assistant Professor in the Department of Chemistry at Northwestern University. She received her doctorate in Chemistry at Northwestern University with Mark Ratner and Michael Wasielewski, and was a postdoctoral scholar in George M. Whitesides' lab at Harvard prior to joining the faculty. Dr. Weiss' research program is focused on the influence of the surface chemistry of colloidal quantum dots on their optical properties. She is the recipient of a Department of Energy Early Career Research Award, a Packard Foundation Fellowship for Science and Engineering, and a Presidential Early Career Award for Scientists and Engineers (PECASE).

**Put your business card here
Reach prospective clients by
advertising in
*The Chemical Bulletin***

.....
**For more information, call
the Section office
(847) 391-9091**

**or email at
chicagoacs@ameritech.net**

DINNER INFORMATION

Dinner reservations are required and should be received in the Section Office via **phone** (847-391-9091), **email** (chicagoacs@ameritech.net) or **website** (<http://chicagoacs.org>) by noon on Tuesday, February 14.

The cost is \$35 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 \$37. The cost to students and unemployed members is \$20. Seating will be available for those who wish to attend the meeting without dinner. **PLEASE HONOR YOUR RESERVATIONS.** The Section must pay for all dinner orders. **No-shows will be billed.**

Menu

APPETIZER COURSE - SERVED FAMILY STYLE: Fresh tomato and mozzarella salad, breads, fire cracker meat rolls with Asian sauce, calamari and fresh vegetables

SOUP COURSE: Cream of Mushroom

DINNER COURSE: Choice of entrée: Beef Brochette (skewered beef tenderloin filet marinated in house marinade and grilled with an array of vegetables), Salmon (broiled on a bed of spinach with Sonoma Curtier Russian River Sauce), or Vegetarian Pasta

DESSERT COURSE - SERVED FAMILY STYLE: Assorted pastries and fresh fruit

BEVERAGE: Coffee, Tea, Soft Drinks

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.

HNC Products Company

283 Cromwell Drive
Clinton, IL 61737
217/935-6845

Contract research and custom manufacturing
of topical dermatology products:
Rx, OTC and treatment cosmetics

DUPAGE ENGINEERS WEEK EXPO

The DuPage Engineers Week Expo will be held on **Saturday, February 25, 2012** at the Daniel F. and Ada L. Rice Campus of the Illinois Institute of Technology at 201 East Loop Drive in Wheaton. The event, which is free and open to all, will be from 11:00 AM to 3:30 PM. The Expo provides children and adults an opportunity to experience and explore many fields of science and engineering through a series of interactive displays and presentations. Displays on cryogenics, lasers, robots and other subjects are currently expected. The Chicago section of the American Chemical Society will be performing demonstrations on water filtration to show how chemistry can help in many of the problems experienced globally. For the most up-to-date information on participants and demonstrations, see the website: www.dupageeweek.iit.edu or call (630) 682-6000.

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

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.

"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 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.

NOTE: This is the 200th installment of the "ChemShorts for Kids" to appear in *The Chemical Bulletin*!!

Bio-Bag Experiments

Kids, what kind of trash bag breaks down the fastest? As you probably know, trash is a weighty (pun intended) topic in this country. With only so much landfill space available, chemists and environmentalists are looking to other means of disposing trash. Most of the plastic bags in landfills are not environmentally friendly because they take many years to completely degrade.

In this experiment the biodegradability of several plastic bags, brown paper bags, and newspaper are tested in different environmental conditions: direct sunlight, a mulch pile (to simulate an "active" landfill), a leaf pile (to simulate a dry landfill), in tap water (to simulate a lake), and in saltwater (to simulate an ocean). You'll have to plan ahead because results take at least three months. Also get an okay from your parent or guardian before starting. Trust me, adults will not be amused to come home and find that you've begun this without their knowledge. Besides you may need their help.

Materials

- Ten plastic trash bags marketed as biodegradable. Use five bags each of two different brands as follows. NOTE! If the bags contain polyethylene plastic they are not biodegradable, but rather a plastic mixed with a chemical additive that breaks the plastic molecular structure and disintegrates. This is a process not considered to be eco-friendly overall. Eco-friendly vendor certifications should be ASTM D6400 and/or DIN EN13432. If the price of the biodegradable plastic bags is close to that of plastic bags, then they probably have the chemical additive (they may say "oxo" or "oxy" in the name).

- 5 non-biodegradable plastic bags
- 3 nets (plastic or cotton)
- wire or string
- 6 wooden posts
- 5 brown paper bags
- 5 pages of newspaper
- a mulch pile 4 feet (120 cm) high consisting of grass, leaves, rotting vegetables, fertilizer, and compost starter culture in a 3-foot (1-meter) diameter ring made of wire fencing
- tap water
- a leaf pile 3 feet (1 m) high
- 10 plastic containers (½ gallon (2 liters) each)
- saltwater (15% salt by volume)

Procedure

1. Fold and secure the plastic bags on top of a net with wire or string and identify them. Tie a wooden post at each end of the net and place each post into the ground, leaving the plastic bags exposed to the sun. Do the same with one paper bag and a page of newspaper.
2. Repeat step 1 by placing the same types of bags in the middle of a mulch pile. Wet the pile thoroughly with water.
3. Repeat step 1 by placing the bags in the middle of the leaf pile.
4. Place the bags into five separate containers of tap water and saltwater.
5. Record the changes that occur upon removal after at least 3 months; photos are useful.

Results

1. Did any of the materials decompose? If so, which decomposed most thoroughly?
2. Was the rate of degradation greatest in the sunlight, mulch pile, leaf pile, tap water, or saltwater environments?
3. Did the plastic bags that were advertised as biodegradable appear any different from the non-biodegradable bags?

Resources & References:

<http://www.infoplease.com/cig/science-fair-projects/kind-trash-bag-breaks-down-fastest.html>

Excerpted from *The Complete Idiot's Guide to Science Fair Projects* © 2003 by Nancy K. O'Leary and Susan Shelly, Alpha Books, Penguin Group (USA) Inc.

<http://www.biodegradableplasticbags.org/>

<http://www.education.com/science-fair/article/biodegrade-plastic-paper-newspaper/>

Submitted by DR. KATHLEEN CARRADO GREGAR

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

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

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.

AWARDS ON ACS CHICAGO SECTION'S WEBSITE

We've created a section on the section's website to highlight the various award opportunities available to our members. There are programs for students, educators, researchers, and professionals you can find them at <http://chicagoacs.net/new/awards.php>. Most of the programs offer some kind of financial incentive in addition to recognition, but either way winning an award looks really good on a resume! Go ahead and apply or recommend somebody you think deserves a little attention from the industry. With all of the talented chemical professionals in the Chicago region, it would be great to show off the contributions our members have made.

Special notes:

A few of the programs listed on the website are closed for the year but now is a good time to plan ahead. View the application requirements and start gathering the information so that you're ready to go when the programs open up again in 2012.

The site is a work in progress, therefore if you have any suggestions for improvement, please send them to info@chicagoacs.net

Special thanks to Katie Leach for creating the Awards page on the Chicago ACS website.

EVA MONTGOMERY
Awards Committee Chair

A PREVIEW OF THE PUBLIC AFFAIRS MEETING ON MARCH 16

On Friday, March 16, we will present our bi-annual Public Affairs Meeting. It will have an emphasis on the major piece of patent legislation which was passed by Congress in early September, 2011. The legislation required more than five years to get passed after its initial presentation. We will have two very knowledgeable patent attorneys who will explore the recent bill which was finally passed and signed into law. This is a very important piece of patent legislation which can be referred to as the "Leahy-Smith America Invents Act," PL-112-29. This legislation was signed into law by President Obama on September 16, 2011. The attorneys who will appear for us on Friday, March 16 to present and explain the ramifications of the act are Atty. Mary Jo Boldingh, who is special counsel with Foley and Ladner LLP; and Atty. Xavier Pillai of Leydig, Voit & Mayer, Ltd.

JAMES P. SHOFFNER and BARBARA MORIARTY
Co-chairs, Public Affairs Committee

COLLEGE LIFE FAIR

The New York Times is launching its first College Life Fair in Chicago in May. The Fair will provide students and their families with an introduction to the college experience and will incorporate exhibits and presentations on admissions as well as on the broader college experience, academic expectations, athletics, student life, technology, health, wellness, career counseling, tutoring and residential life.

The event will be an interactive one where attendees will have access to colleges, universities and other exhibitors. The New York Times College Life Fair takes place on **Thursday, May 31, 2012** from 9AM to 2:30PM and from 5PM to 8PM at Navy Pier in Chicago. The Illinois Association for College Admission Counseling is supporting this event. For more information and to register, go to www.nytimes.com/collegelifair.

FEBRUARY HISTORICAL EVENTS IN CHEMISTRY

- February 1, 1905** Emilio Segré with C. Perrier discovered technetium. With D. R. Corson and K. R. MacKenzie, he codiscovered astatine in 1940. He shared the Nobel Prize in Physics (1959) with Owen Chamberlain for their discovery of the antiproton.
- February 9, 1871** Edward C. C. Baly, who showed that sugar and other organic compounds are formed from water, carbon dioxide, and ammonia under the influence of light, was born.
- February 9, 1950** Californium was discovered by ion exchange chromatography on this date at the University of California, Berkeley.
- February 11, 1914** Alwin Mittasch and Christian Schneider filed an application resulting in US patent 1,201,850, describing catalytic production of methanol from carbon monoxide & hydrogen.
- February 14, 1878** Father Julius Nieuland, who was known as the "Father of Acetylene Chemistry," was born. He was a discoverer of neoprene.
- February 19, 1955** One atom of mendelevium was produced by the bombardment of one billion atoms of ²⁵³Es on this date.
- February 20, 1937** Robert Huber, a researcher on the three-dimensional structure of proteins involved in photosynthesis, was born. In 1988, he shared the Nobel Prize in Chemistry with Johann Deisenhofer and Hartmut Michel for the determination of the three-dimensional structure of a photosynthetic reaction center.
- February 27, 1901** Linus C. Pauling, awardee of a Nobel Peace Prize in 1962, was born. He was a researcher on structure of molecules, valency, and resonance. He received the Nobel Prize in Chemistry in 1954 for his research into the nature of the chemical bond and its application to the elucidation of the structure of complex substances.

LEOPOLD MAY
Professor Emeritus of Chemistry
The Catholic University of America
Washington, DC

Additional historical events can be found at Dr. May's website, <http://faculty.cua.edu/may/Chemistrycalendar.htm>

Scratch & Hear!

Can you hear the vacuum pump?

Scratch the circle below, and you'll hear a sound just a little quieter than VACUUBRAND oil-free pumps in operation. These whisper-quiet, ultra-low maintenance pumps are welcome partners for lab use and OEM applications.



VACUUBRAND® MZ2C NT

Five Decades of
Vacuum Innovation
www.vacuubrand.com
info@vacuubrand.net 888-882-6730

Do Away with Vacuum Pump Oil Mist with MV Oil Mist Eliminators

High-Capacity Oil Mist Eliminator for Vacuum Pumps.



MV VISI-MIST Oil Mist Eliminator for Smaller Pumps

- Removes oil mist from vacuum pump exhaust
- Protects clean rooms from pump vapors
- Coalescing filters drain oil into a reservoir for easy recovery
- Keeps oil residue from sticking to furniture, walls and floors

Vacuum pump oil mist contaminates the surrounding air, settles on surfaces and you breathe it. Eliminate this problem by installing MV oil mist eliminators on your vacuum pumps. It will save you time and money.

The high-capacity oil mist eliminator is made of stainless steel and is designed for large vacuum pumps. It measures only 10" dia. x 13.5" high. The coalescing filter elements remove oil mist at 0.1 micron with an efficiency of 99.999%.

The MV Visi-Mist eliminates oil mist and is designed for smaller vacuum pumps. Contact MV Products for the oil mist eliminators best suited for your requirements. They install in minutes and require little maintenance.

A Division of Mass-Vac, Inc.

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

IN MEMORY



Many of us will remember and miss colleague and friend **Sanford (Sandy) A. Angelos**, who passed away December 9, 2011 at the age of 61. Sandy had been diagnosed with Guillain-Barré Syndrome or AIDP (acute inflammatory demyelinating polyneuropathy) and was undergoing physical therapy when he started having breathing problems followed by heart failure.

Sandy had been very active in the Chicago Section. He served as the section's Chair 1993-1994; chaired a number of committees including Nominating, Awards, Employment, Gibbs, House, Professional Relations, Program, and Speakers Bureau; and had served on a number of other committees. He had been the Chemical Bulletin Editor 1987-1990.

Sandy received a M.S. in 1975 from the University of Illinois. His working career had been with the government and he had retired as Senior Forensic Chemist with the U.S. Dept. of Justice, Drug Enforcement Administration.

He is survived by his wife Julia D. Hertzler (who is also a Chicago section member), his young son Alexander, his mother, a niece, nephews, and cousins.

RECEIVE TRAVEL MONEY TO PARTICIPATE IN AN ACS NATIONAL OR REGIONAL MEETING

Apply for a CIBA/YCC Young Scientist Travel Award for attendance to an ACS national or regional meeting held in 2012. Young scientists under the age of 35 who have postdoctoral appointments or are within the first seven years of their professional career are eligible. Applicants have the opportunity to receive \$500 to attend an ACS meetings and network with other young chemists, professionals and chemist elite. Online applications for the Spring 2012 CIBA/YCC Travel Award opened Aug. 1. Don't miss out on this great opportunity. For more information, please visit the Web page or contact ycc.exec@gmail.com.

PUBLIC AFFAIRS COLUMN

Illinois Electronic Products Recycling and Reuse Act

The Public Affairs Committee has mentioned the "Illinois Electronic Products Recycling and Reuse Act" to the Chicago Section Board and several aspects of the act have been mentioned in the committee's annual report. This is an act which will have a significant effect on how we handle the disposal of all used electronic equipment in the future. There have been several articles in the year-end newspapers regarding the beginning of the electronics collection and disposal process. Most of the articles contain very good and detailed information, including a list of items that will have to be disposed of separately from all other waste. We have listed below some very useful information sites that will give more direct information regarding disposals.

<http://epadata.epa.state.il.us/land/eWaste/collection-sites.asp> - a link to the State of Illinois information on waste collection.

<http://www.epa.state.il.us/land/electronic-waste-recycling/index.html> - a link to the State of Illinois information on electronic waste collection for manufacturers.

<http://www.epa.state.il.us/land/electronic-waste-recycling/amendments.html> - gives a list of materials which are covered by new regulation, a total of 17 electronic products, printing and copying machines, and computer and computer related products.

Up until the economic downturn, the state conducted waste pickups at various locations several times during the year. These collections seemed to have caught on quickly with the public, and I recall waiting in several long lines to dispose of household waste. The pickups stopped rather abruptly and I don't recall getting any notice or information regarding how we were to handle or dispose of waste materials. Now at least we have some specific information. We also have some information regarding how to dispose of waste household materials, including special rules for electronic waste.

It is also true that at about the same time, the state cancelled at least one quarterly publication which had been published by the Illinois EPA and usually had the pickup schedules, with dates and locations. There have been instructions in many of the local dailies about how to handle the electronic waste. We will have a more specific and detailed account of this process as it unfolds.

JIM SHOFFNER,
Co-Chair Public Affairs Committee

CARPOOL BUDDIES

The Chicago Section, ACS is aware of an ongoing problem for some of our members who want to go to a dinner meeting but either don't drive anymore or don't own a car. The Section is implementing a new program to connect members who drive with members who want to go to Section dinner meetings but don't have transportation. Many of our dinner meetings are in the suburbs and not near public transportation. We are asking members who are driving to a dinner meeting to volunteer to pick up a member who doesn't have transportation and who is on the route to the meeting.

Members making a dinner reservation on-line starting in September will be able to check a box on the form that they can provide a ride for someone who doesn't drive. Members who do not drive will be able to call into the section office and ask for the list of volunteer carpool buddies for that meeting. The non-driving member will have the responsibility of calling someone on that list for a ride before making their dinner reservations.

This is a win-win situation for everyone. You can help save the environment by reducing the number of cars going to a meeting; you can have someone to talk to on the ride to the meeting; and you will know you are helping a fellow chemist to still attend a dinner meeting. Won't you please help!

FRAN KRAVITZ

Toxicology Consulting

**Medical Devices
Pharmaceuticals
Biologicals
Risk Assessments**

**Product Development
FDA Registration
Quality Assurance
Regulatory Compliance**

Northup RTS

Sharon J. Northup, PhD, DABT
783 Ridge Road
Highland Park, IL 60035

Ph: 847-579-0049 Fax: 847-579-0052

Rtsnorthup@aol.com
www.toxconsultants.com

DID YOU KNOW?

George Washington Carver was featured in the "December Chemist of the Month" ACS Diversity eBrief. Read about him at: <http://multibriefs.com/briefs/acs2/index.php>

WCC ARTICLE AUTHORS NEEDED

The Chicago Section's Women Chemists Committee has a project to highlight women, both current and historical, and topics of interest to women. The project is called the "WCC Column" in the *Chemical Bulletin* and the project has been very successful.

We invite anyone, women or men, to join us in this endeavor of writing an article for the column. The article needs to be about 500 words long and will also be put on the Chicago Section website. The author also needs to design a poster for the corresponding monthly meeting. Our office manager, Gail Wilkening, will help with the poster, which can be primarily a large font version of what you wrote, if you wish. We welcome new authors and those who have already discovered what a pleasure this project is.

CO-CHAIRS MARGY LEVENBERG
AND SUSAN SHIH

CHEMINFORMATICS COLLABORATION

Chemical Abstracts Service (CAS), a division of the American Chemical Society and the world's authority for chemical information, announced in December 2011 a long-term collaboration with InfoChem GmbH, a leader in chemical structure and reaction technology as well as datamining in chemical science documents, headquartered in Munich, Germany.

Under the new collaboration, research teams at CAS and InfoChem will work together to explore the technology frontiers in the field of cheminformatics. For example, the joint team is now researching and developing technology to identify chemical information in text and to semantically enrich chemical information documents. The partners will also continue to focus on chemical substance information and the ways to extract, derive, store, communicate and interpret that information.

"We are delighted to expand our relationship with InfoChem to undertake research in advanced technologies in the chemical information space," said Robert J. Massie, President of CAS. Since 1997 CAS and InfoChem have successfully worked together in the area of chemical information content. "Chemistry, in addition to being the central science, is a global enterprise. CAS has strong relationships with scientific and commercial organizations around the world, and we are delighted to enhance our collaboration with InfoChem in their area of expertise."

With the project "ChemProspector" InfoChem was one of the participants in the prestigious "THESEUS" research program, an initiative of the German Ministry of Economics and Technology. The subject of this project was: "Advanced mining and searching of chemical content in patent documents." "We are excited to collaborate with the leader in chemical information, CAS," said Peter Loew, PhD, Managing Director of InfoChem. "This project will enable InfoChem to enhance our successful research and development from the THESEUS initiative and create significant value for chemists and the chemical enterprise."

About CAS

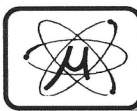
Chemical Abstracts Service (CAS), a division of the ACS, is the world's authority for chemical information. Their databases are curated and quality-controlled by CAS scientists and recognized by chemical and

pharmaceutical companies, universities, government organizations and patent offices around the world as authoritative. By combining these databases with advanced search and analysis technologies (SciFinder® and STN®) CAS delivers the most current, complete and cross-linked secure digital information environment for scientific discovery.

About InfoChem

InfoChem GmbH, based in Munich, Germany, is a market leader in structure and reaction handling and retrieval. Founded in 1989, InfoChem focuses on the production and marketing of new chemical information products, including structural and reaction databases, and the development of software tools required for these applications. The main software tools provided are the InfoChem Chemistry Cartridge for Oracle (ICCARTRIDGE) and the widely used InfoChem reaction classification algorithm CLASSIFY. In addition, InfoChem provides tools for the automatic recognition and extraction of chemical entities and their conversion into chemical structures as well as the semantic enrichment of chemical science documents.

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



Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION

MORPHOLOGY CHEMISTRY STRUCTURE

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

THE UN-COMFORT ZONE

with Robert Wilson

How to Move Forward

I found that I was paralyzed and unable to be the driving force my business needed to stay afloat.

It was then that I realized I had failed to take a critical beginning step. It was something I should have known. It was a vital component of creative thinking that I'd been teaching others for years. I failed to identify the problem. Innovation is all about solving problems or satisfying needs; and before you can be creative, you need to know why you should be.

To move forward, whether it is in business or in a relationship, you have to identify what is holding you back. For me, my blocks were both professional and personal. My business and my relationship were so closely intertwined that I didn't realize I had a problem until I got stuck again.

To read the entire article, go to: <http://www.jumpstartyourmeeting.com/articles/TUZ/54-How-To-Move-Forward.shtml>

Robert Evans Wilson, Jr. is a motivational speaker and humorist. He works with companies that want to be more competitive and with people who want to think like innovators. For more information on Robert's programs please visit www.jumpstartyourmeeting.com.

ADVERTISING INDEX

Company	Page	Telephone	URL/E-Mail
HNC Products Co.	2	217-935-6845	
Vacuubrand, Inc.	4	888-882-6730	www.vacuubrand.com
Mass-Vac, Inc.	5	978-667-2393	www.massvac.com
Northup RTS	6	847-579-0049	www.toxconsultants.com
Micron Inc.	7	302-998-1184	www.micronanalytical.com

CALENDAR

February 16: Chicago Section ACS Dinner Meeting at Zhivago Restaurant and Banquets. **See details in this issue.**

February 25: DuPage Area Engineers Week Expo 2011 will be held at the Daniel F. and Ada L. Rice Campus of the Illinois Institute of Technology, 201 East Loop Drive in Wheaton from 11:00 a.m. to 3:30 p.m. For further information, visit the website www.dupageeweek.iit.edu. **See article in this issue.**

March 11-15: Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon 2012), Orange County Convention Center, Orlando, FL. For additional information, visit the Pittcon website at <http://www.pittcon.org/>.

March 16: Chicago Section ACS Public Affairs Dinner Meeting at Café La Cave.

March 25-29: 243rd ACS National Meeting & Exposition, San Diego, California

April 19: Chicago Section ACS Dinner Meeting. This is a Thursday meeting.

May 18: Chicago Section ACS Gibbs Award Banquet and Lecture.

May 31: The first New York Times College Life Fair in Chicago providing students and their families with an introduction to the college experience from 9AM to 2:30PM and from 5PM to 8PM at Navy Pier. For more information and to register, go to: www.nytimes.com/collegefair. See also article in this issue.

June 18-20: 16th Annual Green Chemistry & Engineering Conference, Washington, DC. For further information, go to <http://acswebcontent.acs.org/gcande/>

June 21: Chicago Section ACS Distinguished Service Award and 50 & 60-year members honored.

August 10-19: ACS Illinois Sections' cooperative tent project at the Illinois State Fair in Springfield. For further information on this fun and worthwhile outreach activity, contact the section office at 847-391-9091. Also, visit website <http://chicagoacs.org/statefair/index.html>

August 19-23: 244th ACS National Meeting & Exposition, Philadelphia, Pennsylvania

February, 2012 Vol. 99, No. 2.
Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor; Fran Kravitz, Associate Editor; Richard Treptow, Proofreader. Address: 1400 Renaissance Dr., Suite 312, Park Ridge, Illinois 60068; 847/391-9091. Subscription rates: \$15 per year. Frequency: monthly-September through June.

JOB CLUB

The next meeting of the Chicago Section ACS Job Club will be held on **Thursday, February 16 at 5:30 p.m.** at Zhivago Restaurant. The meeting will include a review and discussion of some of the tools that a chemist can use to conduct a job search.

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

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

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

Should you wish to attend the Section's dinner meeting following the Job Club, the cost is \$20 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.

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.

2012 Issue	Deadline
April	March 2
May	March 30
June	May 4
September	July 20
October	August 31
November	September 28
December	October 26

WHEN YOU CHANGE YOUR EMAIL ADDRESS

Please let the section office know what your new email address is so that you will not miss any notes concerning issues of *The Chemical Bulletin* or other section information. Contact the office at 847-391-9091 or at chicagoacs@ameritech.net

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

Support Our Advertisers
Help *The Chemical Bulletin* stay healthy