

The Chemical Bulletin

<http://chicagoacs.org>

MARCH • 2012

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY BI-ANNUAL PUBLIC AFFAIRS MEETING FRIDAY, MARCH 16, 2012

Café La Cave
2777 Mannheim Road
Des Plaines, IL 60018
847-827-7818

Directions to the meeting are on page 2.

JOB CLUB:

5:30 - 6:30 P.M.

SOCIAL HOUR: Cash Bar

Complimentary Hors D'oeuvres served butler style

5:30 - 6:30 P.M.

DINNER (See Page 2)

6:30 P.M.

GENERAL MEETING

7:30 P.M.



Mary Jo Boldingh
Attorney
Foley and Lardner, LLP



Xavier Pillai
Attorney
Leydig, Voit & Mayer, Ltd

Topic: "America Invents Act" PL-112-29

The "America Invents Act" which was signed into law by President Obama on September 16, 2011 made significant changes to the U.S. patenting system. This law made significant changes in the patent law for the first time in nearly 60 years. The Public Affairs Meeting will focus on the importance of this legislative action for the future of science and technology in this country and the world in the coming years.

Both of our speakers are patent attorneys and experienced chemists and will
(continued on page 2)

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.

The Chicago Section's e-mail address is

chicagoacs@ameritech.net

IN THIS ISSUE

- 2** Dinner Information
- 3** ChemShorts for Kids
- 3** Gibbs Awardee
- 3** Food Science
- 4** Teamworks 2012
- 4** Section's Giving
- 4** ALMA
- 5** Public Affairs Column
- 6** Gibbs Dinner Coupon
- 7** In Memory: Carl Moore
- 7** The Un-Comfort Zone
- 8** Chemistry History
- 8** Women in Chemistry
- 9** Job Club
- 9** Bulletin Deadlines
- 9** Ad Index
- 9** Calendar

(continued from page 1)

review those changes in the patent process that are of significant interest to scientists and inventors. Both Mary Jo and Xavier have extensive backgrounds in chemical practice, process and characterization, all of which are important to the patent process.

Dr. Michael G. Koehler, our chair-elect, will be our moderator for the program this evening.

Biographies:

Atty. Mary Jo Boldingh

Mary Jo Boldingh is special counsel with Foley & Lardner LLP. She is a member of the firm's IP Litigation and Chemical, Biotechnology & Pharmaceutical Practices.

Ms. Boldingh's practice focuses on intellectual property, including patent litigation, validity and infringement opinions, and patent prosecution. Her experience includes work in chemical technologies such as catalysis, metal oxide absorbents, polymers, biotech processes, and infant formula, and in other technologies such as telecommunications, Internet-based marketing systems, and handheld digital assistants. She has been involved in numerous prominent cases in a variety of industries and has a special interest in efficient dispute resolution.

Prior to graduation from law school, she worked as a laboratory chemist at the UOP Research Center in the automotive catalysis area and as a computational chemistry consultant at both G.D. Searle & Co. R&D and at AlliedSignal Engineered Materials Research Center, focusing on drug design and fuel properties, respectively.

As a recognition of her legal experience, Ms. Boldingh has been Peer Review Rated in Martindale-Hubbell's peer review rating system.

She received her A.B. in chemistry from Loyola University in 1980, her M.S. in chemistry from Northwestern University in 1985 and her J.D. with honors from IIT Chicago-Kent College of Law in 1991.

Ms. Boldingh is a member of the American Intellectual Property Law Association, the Federal Circuit Bar Association, the Intellectual Property Law Association of Chicago (Board of Managers, 2010-2012), and the American Bar Association, and is a past member of the Richard Linn American Inn of Court. In addition, she was a long-time member of the board of directors of the Chicago-based social service agency Ada S. McKinley Community Services, Inc., and served on the board of trustees of the Science and Arts Academy, a school for gifted children in Des Plaines, Ill.

Ms. Boldingh is admitted to practice in Illinois and before the Northern District of Illinois, the Courts of Appeals for the Federal Circuit and the Second Circuit, and the Eastern District of Wisconsin. She is also registered to practice before the U.S. Patent and Trademark Office.

Atty. Xavier Pillai

Xavier Pillai received his Ph.D. in polymer science from Case Western Reserve University in Cleveland Ohio in 1984. He joined the staff of AlliedSignal Co as a polymer chemist, where he conducted research as a polymer chemist. He received his legal training at Chicago-Kent College of Law, receiving his J.D. in 1994.

Dr. Pillai is currently active in patent prosecution and client counseling, with a particular emphasis in the chemical arts. Areas of particular interest include organic chemistry, polymer chemistry, process chemistry, pharmaceuticals including small molecules and macromolecules, vaccines, diagnostics, high polymers, lithography, membranes and filters for use in biomedical applications, ink jet printing ink compositions, marking compositions, and liquid crystal compositions. He directs patent procurement in the U.S., Europe, Canada, Japan, Australia and several other countries, providing opinions on patent infringement, patent validity, and patent challenges.

Prior to joining Leydig, Voit & Mayer, Ltd., Mr. Pillai worked as a research scientist at Allied Signal, Inc. in the area of polymer membranes for water desalination and gas separation applications. During his research for his Ph.D., he carried out synthesis and evaluations of polymers and copolymers containing oxazoline

(continued on page 4)

DIRECTIONS TO THE MEETING

From I-290 East/West - Take I-290 from either direction and exit onto I-294 North. Continue until you reach the exit for I-190 West (to O'Hare). Exit and immediately pay toll. Exit onto Mannheim Road North. Go North for 1.5 miles. The restaurant is on the right side after the second stoplight.

From I-90 East/West - Take I-90 from either direction and exit I-190 West (to O'Hare). Then follow I-290 East/West directions given above.

From I-294 North/South - Take I-294 from either direction and exit I-190 West (to O'Hare). Then follow I-290 East/West directions given above.

From I-88 East - Take I-88 East to I-294 North. Take I-294 and exit at I-190 West (to O'Hare). Then follow the directions for I-290 East/West given above.

PARKING: Go directly to parking lot for self-parking. Valet parking is also available.

DINNER INFORMATION

Menu: Soup of the day; Squillo Salad with Walnuts and Cranberries; Entrée choice of either a Breast of Chicken Combination (Sautéed Breast of Chicken with fresh mushrooms & shallots with a Sherry Cream Sauce and Sautéed Breast of Chicken with Shiitake mushrooms with a Marsala Wine Sauce), Seared Salmon with a Ginger Sauce, or Fresh Vegetables with Pasta; Anna Potatoes; medley of fresh vegetables; Chef selection dessert; a variety of breads; beverage.

Dinner reservations are required and should be received in the Section Office via **phone** (847-391-9091), **email** (chicagoacs@ameritech.net), or **online** (<http://chicagoacs.org>) by noon on Wednesday, March 14. The dinner cost is \$35 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to members who haven't paid their local section dues and to non-members and 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.

"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.

Chameleon Eggs

Kids, have you seen beverages with the floating edible gel eggs or beads in them? You can apply chemistry to make edible gel eggs or beads, and you can even make them change color.

You'll need:

- 1 tablespoon sodium alginate
- 1 tablespoon sugar
- 1-2 teaspoons baking soda
- 1 can frozen concentrated grape juice
- 1 teaspoon calcium chloride
- 3 antacid tablets (with magnesium hydroxide)
- large glass, spoon, pipette or dropper, jar with lid, strainer or slotted spoon

Make the Gel Eggs

1. Mix together the sodium alginate and sugar.
2. In a separate container, add baking soda to the grape juice, one pinch at a time. Stir and wait until no more bubbles form before adding each pinch of baking soda. Continue this until very few bubbles form. The alkaline baking soda is neutralizing the acidic grape juice. You need to neutralize the grape juice because a high pH is needed to dissolve the sodium alginate.
3. Pour the sodium alginate and sugar mixture into the jar. Stir in the neutralized grape juice.
4. Tighten the lid on the jar and shake it to thoroughly mix the contents. Allow the jar to sit overnight so that the sodium alginate will become fully hydrated.
5. Crush the antacid tablets and mix them together with the calcium chloride.
6. Stir the calcium chloride and antacid into a large (12-16 oz) glass of water.
7. Now comes the part where you make the gel eggs or beads! Use the dropper or pipette to suck up some of the grape juice solution. While stirring, slowly drip the juice solution into the glass of water, calcium chloride and antacid. Drip the grape juice solution into the glass from above -- if the dropper comes into contact with the antacid solution then the grape juice solution will solidify in your tube.
8. Leave the gel eggs or beads in this solution until they turn blue.

Color Change Gel Eggs

Use a slotted spoon or strainer to remove a spoonful of the gel eggs. Add them to an acidic drink, like lemonade or lemon-lime soda or white wine and watch the acidity of the drink change the color of the eggs from blue to red! A carbonated beverage is extra fun because the gel eggs will float up and down with the bubbles.

Supplies: Sodium alginate can be found in grocery and health food stores. Frozen, concentrated, deeply-colored grape juice is best; bottled concentrate is ok. Calcium chloride is at grocery stores where the pickling and canning chemicals are sold, or from home supply stores in the dessicant area.

Reference:

Anne Marie Helmenstine at About.com: Chemistry
<http://chemistry.about.com/b/2012/01/06/color-change-gel-eggs-food-chemistry-project.htm>

or cut and paste the link <http://tinyurl.com/7tneec9>

Submitted by DR. KATHLEEN CARRADO GREGAR

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

Please join the Chicago Section of the ACS for the 101st Celebration of the **Gibbs Award** to be presented to **Dr. Mark Ratner** of Northwestern University on Friday, May 18. This is a chance to hear a fascinating speaker at the Casa Royale in Des Plaines for \$40. Sign up now for an enjoyable evening by registering at **chicagoacs.net** or calling 847-391-9091. See the Gibbs Coupon on page 6 for details.

FOOD IN THE HIGH SCHOOL CHEMISTRY CLASSROOM

Most students love the smell of warm pie or fresh roasted potatoes but may not realize that it is all about chemistry. Teachers are finding out that students are eager to learn chemistry concepts through food science and are willing to share their resources. Use the ACS compilation of articles in your classroom. Go to (cut and paste) the link <http://tinyurl.com/7mdomh3>

Also check out the ACS video podcast, Flavor Chemistry — The Science Behind Smell and Taste. Go to (cut and paste) the link <http://tinyurl.com/7qu2aje>

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

(Pillai - continued from page 2)

monomers and ethylene oxide monomers for electrical battery separator applications. He is the named inventor of seven U.S. patents and has ten publications on polymer synthesis and polymer membranes.

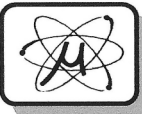
He is a member of and actively engaged in:

- American Intellectual Property Law Association (AIPLA), (Member, Patent Law and Chemical Practice Committees)
- Intellectual Property Law Association of Chicago (IPLAC)
- American Chemical Society
- Intellectual Property Owners Association (IPO)

As a member of the American Chemical Society, he serves as a member of the Division of Chemistry and the Law, serves on the Executive Committee, and in 2011 was chair of the Division of Chemistry and the Law. He is an associate member of the Council Committee on Patents and Related Matters, and has been very active as a presenter and speaker before numerous groups having an interest in science and legal matters.

He is a member of the Illinois Bar (1994), the DC Bar (2000), and is registered to practice before the U.S. Patent and Trademark Office. He has obtained a significant number of patents and publications during his career as a practicing research chemist.

He is expert in the languages of Tamil and Hindi.



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

TEAMWORKS 2012: THE TRADE SHOW FOR CHEMICAL FORMULATORS

The Society of Cosmetic Chemists Midwest Chapter presents TEAMWORKS 2012, the premier industrial trade show for the personal care industry in mid-America, to be held on **Wednesday, March 21, 2012** at the Donald E. Stephens Convention Center in Rosemont, Illinois, located at Bryn Mawr Avenue and North River Road. Trade show hours are from 12:00 noon – 6:00 pm. Join hundreds of chemists, engineers and technologists from the cosmetic, personal care, pharmaceutical and allied industries in visiting over 100 booths representing the prime technology suppliers in this industry. A buffet lunch, raffle prize drawings, and a well-appointed networking area will be provided. A multi-speaker technical seminar precedes the show that morning, where papers will be presented by supplier firms. Attendance to this event is cost-free, but you will need to pre-register online at the SCC Midwest Chapter website (www.midwestsc.org)

Cosmetic chemistry has evolved into a multi-disciplinary science that presents some of the most challenging formulation requirements in the chemical industry. Besides functioning as the technical arm of a multi-billion dollar global industry, cosmetic scientists have the distinction of employing many cutting-edge techniques. Nanotechnology, proteomics, tribology, coatings, pharmacology, biology and functional polymers are some of the disciplines that they use in their innovative pursuits. Perhaps no other discipline requires as much cross-functional knowledge as this industry does.

If you are interested in learning more or perhaps have an inventive idea that you need help with, this will be the ideal place for you. For further details regarding TEAMWORKS 2012, you may contact the Midwest SCC Teamworks Committee at: www.midwestsc.org/teamworks

CHICAGO SECTIONS' CHARITABLE GIVING

In 2011, the Chicago Section of the American Chemical Society participated in donations to two charities, Loaves & Fishes Community Pantry and the DuPage Department of Children and Family Services.

Section members are asked every year to bring food items and toys to the December dinner meeting. In 2011, Section members donated several bags of toys, 570 lbs of food, and \$200. The food and money were donated to the local Loaves & Fishes Community Pantry which is a community based, non-profit organization established to provide food and personal care essentials to residents in need. The toys were donated to the DuPage Department of Children and Family Services, which is a social agency providing services to families and children in DuPage County. The toys are used in their foster care program.

FRAN KRAVITZ

ASSOCIATION OF LABORATORY MANAGERS

Join or renew your membership in the Association of Laboratory Managers (ALMA). ALMA is the professional society of laboratory managers around the world with nearly 1200 members. As challenges continually change, lab managers must continue to grow and learn to meet these challenges and to satisfy their career goals. ALMA provides several forums for lab managers to improve their skills and members enjoy networking with each other to ask questions and share common experiences and challenges. ALMA members are entitled to a reduced registration cost at the ALMA annual conference and workshops and receive a quarterly newsletter on management tips. In addition, slides from previous conferences are available in the members-only section of the ALMA website.

Join your peers and support the offerings of the professional association dedicated to improving lab management skills. Membership is \$50 for an individual membership and \$500 for an organizational membership enrolling all lab managers in your organization. Your membership enables ALMA to thrive and continue to offer lab managers opportunities to grow and become better leaders.

Join at www.labmanagers.org

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



Oil Mist Eliminators



Vacuum Inlet Traps



Oil Filtration Systems

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

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

Other Quality Vacuum Products

Vacuum Degassing
ChambersCentral Source
Vacuum System

Filters

For more information on these and other
fine vacuum products contact



PRODUCTS

A Division of Mass-Vac, Inc.

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

PUBLIC AFFAIRS COLUMN

President Obama signs "America Invents Act"

The President went to one of the great science and technical high schools in the nation – indeed in the world – to sign the latest update of the nation's patent revision, the first in nearly sixty years. Present with him at the signing at Thomas Jefferson High School for Science and Technology in Alexandria, Virginia, were several government and business executives, legislative leaders, as well as faculty and students from the high school.

The new legislation, PL-112-29*, is known as the "Leahy – Smith America Invents Act" after the cosponsors in the senate and house respectively. Sen. Patrick Leahy is the Senator from Connecticut, and Hon. Lamar Smith is from the HR, 21st district. Some key elements of the new legislation:

- **A fast track option for patent processing within 12 months**
- **Opportunity to reduce the present backlog**
- **Increasing patent quality**
- **Increasing ability of American Inventors to protect their IP abroad**

The signing took place on September 16, 2011. Signing by the Senate and House was finalized on September 8.

There are many other aspects of the new legislation which are of interest and will, undoubtedly be discussed by the two speakers at our Public Affairs meeting on March 16.

JIM P. SHOFFNER & BARB MORIARTY
Co-Chairs, Public Affairs Committee

*112th Congress, Public Law 29

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

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

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



**AMERICAN CHEMICAL SOCIETY CHICAGO SECTION
2012 WILLARD GIBBS MEDAL AWARD PRESENTATION
Friday, May 18, 2012**



You and your guest(s) are cordially invited to attend the presentation of the 101st Josiah Willard Gibbs medal to Professor Mark Ratner, Dumas University Professor at Northwestern University, Evanston, Illinois, on Friday, May 18, at Casa Royale, 783 Lee Street, Des Plaines, IL 60016. A social hour begins at 6 PM. Dinner is served at 7 PM. Dr. Ratner's talk will begin at approximately 8:30 pm.

After a social hour with Hors-d'oeuvres and two Complimentary Drinks, dinner on this special occasion includes Cream of Asparagus Soup, Signature Salad Pre-Dressed with Raspberry Vinaigrette Dressing; a choice of Prime New York Strip or Baked Salmon with Dill Sauce or Eggplant Parmigiana; Duchesse Potatoes and Green Beans Almandine; and Warmed Apple Cobbler à la mode with Caramel Sauce, as well as Wine.

To reserve your tickets, please call the Chicago Section office at 847-391-9091 or register at <http://ChicagoACS.org> by Monday, May 14 and pay \$40 at the door, or fill out the attached reservation form and mail it with your payment of \$40 by Wednesday, May 9 to the address below. If you are not a member of the Chicago Local Section, you are not eligible for half price tickets for students, unemployed, or retired Chicago Section members. Tickets and nametags will be available at the door. No refunds will be made after noon on Monday, May 14, 2012.

The Gibbs Award Dinner is always a memorable occasion. Only the Nobel Prize is considered more prestigious. Please come to salute the recipient and rejoice in Dr. Ratner's achievements in and contribution to the science of chemistry.

Margaret Stowell Levenberg
Gibbs Arrangements Committee

..... cut here

2012 GIBBS DINNER RESERVATION FORM

Name _____ Affiliation _____

Address _____ Phone(____) _____

Email Address _____

tickets for ACS members & guests (\$40.00/ticket) _____

tickets for students, unemployed members, and retirees who are Chicago Section members (\$20.00/ticket) _____

Note: Professors must make student reservations.

dinners:

Prime New York Strip _____

Baked Salmon with Dill Sauce _____

Eggplant Parmigiana _____

Total Enclosed \$ _____ Payable at time of reservation if reservation is made by mail. Please include a list of your guests' names, affiliations and dinner selections with this form.

Return with payment to: American Chemical Society, Gibbs Reservations
1400 Renaissance Drive, Suite 312, Park Ridge, IL 60068

IN MEMORY

Members of the Chicago Section were saddened at the death of long-time section member and friend, **Carl Moore** on January 10, 2012. **Dr. Carl Edward Moore**, of Morton Grove, IL, was born in Franklin County, KY on Sept 25, 1915 to Leslie and Effie Goins Moore. He was the middle child and had two sisters and 4 brothers. In 1940, he married Mary Agnes Bohn, also an educator, who died November 10, 2006. They had four children, eight grandchildren and six great-grandchildren.

In 1939 Carl earned a BS in Chemistry from Eastern Kentucky University, and then took a job with National Distiller's Products Corp from 1939 to 1941. During WWII, 1941 to 1945, he worked for the Military Explosives Division of E.I. DuPont Nemours & Co. He returned to Kentucky and, in 1947, earned an MS in Chemistry from the University of Louisville. He then moved on to The Ohio State University and earned a PhD in Analytical Chemistry in 1952.

Carl joined the Chemistry Department at Loyola University Chicago in 1952 as an Assistant Professor when Ray Mariella was Chair. In 1959 he was promoted to Associate Professor of Chemistry, with tenure, and in 1962, he was promoted to Professor of Chemistry. He served the Chemistry Department as Chairperson from 1976 to 1981 and was Chair when Flanner Hall was dedicated in May of 1979. He mentored 15 PhD students who went on to successful careers. He consulted for Witco Corporation, and, for a number of years, chaired the Air Pollution Control Commission for Morton Grove. He was Science Advisor to Illinois Congressional Dist 10 Representatives Abner Mikva and John Porter.

Carl formally retired in 1986 but continued to do research and publish, mainly in the history of science and philosophy and helped University librarians with their archival collections. In 1993, he and Mary Agnes published the "History of the Chemistry Department," an important historical document for Loyola University. He continued working on a follow up book documenting the accomplishments of some students from the earlier volume. Even when he was 96, Carl continued his research and paper writing every day and would drive to the Department 3-4 days a week to work with his good friend and fellow chemist, Bruno Jaselskis.

Carl was a 70-year member of the ACS and had served as a Board member and Membership Chair of the Chicago ACS section. He received the ACS Chicago Section Public Affairs Award in Feb 25, 1983. Many of his acquaintances and former students were especially pleased to see him when he attended the Chicago ACS Section Holiday party in Dec 2011. He was also a strong supporter of the Society of Applied Spectroscopy and of the Midwest University Analytical Chemists. He trained his students well and took good care of them. He was always a gracious southern gentleman who could tell a good story, laugh at a joke, and help or encourage a student, colleague, or friend. We will all miss him!

DAVE CRUMRINE

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

INSPIRE THE NEXT GENERATION OF SCIENTISTS WITH ACS VIDEO SERIES

An ACS video series — aptly named *Spellbound* — tells the stories of eight chemists whose childhood curiosity about everyday things helped them launch careers in laboratories, win Nobel Prizes and make other notable achievements. Suitable for classrooms and other audiences, the videos are available free at www.acs.org/Spellbound, iTunes, and on Youtube. You can also request a free DVD by emailing Michael Bernstein (m_bernstein@acs.org).

THE UN-COMFORT ZONE

with Robert Wilson

Here's When Creative Thinking Kicks In

In the early 1980s, when I was a young man fresh out of college, I wanted to work in the advertising industry as a writer. I took the traditional approach and sent resumes with my three best writing samples to 80 advertising agencies. The responses I got: ZERO. I made several follow up phone calls only to learn that my resume had not even been looked at. One creative director told me that he had a stack of resumes from writers that was four feet high and that he had not looked at one of them. I was frustrated... but that frustration stimulated a humorous way for getting those creative directors' attention...

To read the entire article, go to: http://www.jumpstartyourmeeting.com/articles/TUZ/55-When_Creativity_Kicks_In.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.

DID YOU KNOW?

There is an online chemistry competition called the Cambridge Chemistry Challenge? It is an innovative web-based competition for chemists and students of chemistry. From January to June there is a monthly online challenge opened to anyone, any age, from anywhere in the world. Go to <http://www.c3i6.com/>

CHEMICAL SAFETY RESOURCES

Safe chemical practices are the most basic and fundamental parts of chemistry education. The ACS Committee on Chemical Safety provides many resources for teaching safe chemistry, handling chemicals, safe facilities, design and operation. For further information, visit the acs.org website and search the keyword "chemical safety".

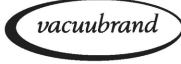
MARCH HISTORICAL EVENTS IN CHEMISTRY

- March 2, 1848** Phippe A. Barbier, who synthesized the first organomagnesium compound, was born.
- March 9, 1912** Stanley G. Thompson, who codiscovered berkelium, californium, einsteinium, fermium, and mendelevium, was born.
- March 10, 1762** Jeremias B. Richter, who discovered the law of equivalent proportions, was born. He was the first to establish stoichiometry, the basis of quantitative chemical analysis.
- March 12, 1790** John F. Daniell, who invented the Daniell electrochemical cell, was born.
- March 14, 1931** Ronald C. D. Breslow, who demonstrated antiaromaticity; invented artificial enzymes, and used electrochemical methods to study carbon cation, was born. He also served as President of the ACS.
- March 19, 1883** Walter N. Haworth, who received the Nobel Prize in Chemistry for his investigations on carbohydrates and vitamin C, was born. He shared the prize with Paul Karrer for his investigations on carotenoids, flavins and vitamins A and B2. He synthesized ascorbic acid (Vitamin C) in 1933 and did research on sugars and dextran as blood plasma substitute.
- March 23, 1962** Neil Bartlett made the first noble gas compound, XePtF6.
- March 26, 1753** Count Rumford (Benjamin Thompson), who invented a simple photometer, was born. He was a researcher in heat and demonstrated first law of thermodynamics. He also improved cooking and heating systems in addition to animal breeding. He married Antoine Lavoisier's widow to improve his position in science.
- March 29, 1855** Konrad J. Bredt, who described the first correct structure of camphor, Bredt's Rule for bicyclics, was born.
- March 31, 1831** Archibald Scott Couper, who developed the organic structural theory at the same time as August Kekule, was born. He was first to use bond lines for organic structures.

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>



Five Decades of Vacuum Innovation


Productivity Catalyst

A catalyst is a little thing that can make a big difference. VACUUBRAND® VARIO™ vacuum systems are compact pumps that continuously optimize vacuum conditions without oversight or programming.

- Complete evaporations up to 30% faster
- Protect samples from bumping
- Free scientist time for more productive tasks

Ideal for reactors and rotary evaporation of complex mixtures, these reliable systems also save energy and permit nearly 100% solvent vapor capture.

React today! Call us to arrange a demo!



The VACUUBRAND PC3001
1.5 Torr, 27 lpm

VACUUBRAND, INC.
Tel 860-767-5341 Cust. Service 888-882-6730

www.vacuubrand.com
info@vacuubrand.net

CELEBRATE WOMEN IN CHEMISTRY

Check out the ACS' commemorative website highlighting women scientists in American history. The site features women who overcame a thick barrier of gender discrimination to reach the heights of scientific investigation and discovery. Among them: Ellen Swallow, pioneer of sanitary engineering; Gerty Cori, whose landmark research gave us an understanding of sugar metabolism; and Rosalyn Sussman Yalow, the Nobel-ist behind the groundbreaking radioimmunoassay technique.

Go to: http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PPARTICLEMAIN&nodeid=124&contentid=CNBP_026828&usesec=true&sec_url_var=region1&uuid=f59849fa-ff92-4b63-80ce-9da2811987c6

Or cut and paste the link: <http://tinyurl.com/6tvpwju>

CALENDAR

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. See details in this issue.

March 21: TEAMWORKS 2012 trade show for chemical formulators will be held at the Donald E. Stephens Convention Center in Rosemont, Illinois. Visit www.midwestscc.org/teamworks for more information. **See article in this issue.**

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 20-24: ASMS Conference on Mass Spectrometry, Vancouver, BC, Canada. For further information, go to: www.asms.org.

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.

June 18-20: 16th Annual Green Chemistry & Engineering Conference, Washington, DC. For further information, go to www.acs.org/gci

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

JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on **Friday, March 16 at 5:30 p.m. at Café La Cave**. 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.

March, 2012 Vol. 99, No. 3. 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.

DGRWEB 2011 (ACS DIRECTORY OF GRADUATE RESEARCH)

DGRweb 2011 is now available! Search the online version of the ACS Directory of Graduate Research (DGR), the most comprehensive source of information on chemical research and researchers at universities in the United States, Canada, and Mexico. <http://dgr.rints.com/>

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
May	March 30
June	May 4
September	July 20
October	August 31
November	September 28
December	October 26

Advertise with us and be in good company
For information on advertising, call 847-391-9091
or email chicagoacs@ameritech.net

ADVERTISING INDEX

Company	Page	Telephone	URL/E-Mail
Northup RTS	3	847-579-0049	www.toxconsultants.com
Micron Inc.	4	302-998-1184	www.micronanalytical.com
Mass-Vac, Inc.	5	978-667-2393	www.massvac.com
HNC Products Co.	7	217-935-6845	
Vacuubrand, Inc.	8	888-882-6730	www.vacuubrand.com