

The Chemical Bulletin

<http://chicagoacs.org>

MAY • 2013

**THE ONE HUNDRED AND SECOND PRESENTATION OF THE
WILLARD GIBBS MEDAL
(Founded by William A. Converse)
to
PROFESSOR CHARLES M. LIEBER
sponsored by the
CHICAGO SECTION AMERICAN CHEMICAL SOCIETY
FRIDAY, MAY 17, 2013**

**Hilton Garden Inn
(by Chicago O'Hare Airport)
2930 S. River Road
Des Plaines, IL
847-296-8900**

Directions to Hilton Garden Inn and the menu are on page 3.

RECEPTION 6:00 P.M.
Hors-d'oeuvres
Two Complimentary Drinks

DINNER 7:00 P.M.

Dinner reservations are required. To reserve your tickets, please call the Chicago Section office at 847-391-9091, email at (chicagoacs@ameritech.net), or register at <http://www.chicagoacs.net/meetings/13may.php> by **Monday, May 13** and pay \$40 at the door.

Members of the Chicago Local Section who are students, unemployed, or retired are eligible for half price tickets. You must be a member of the ACS Chicago Section to qualify for the discounted rate. No refunds will be made after noon on Monday, **May 13, 2013**.

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

Seating will be available after the dinner for people not attending the dinner but interested in hearing the speaker.

AWARD CEREMONY 8:30 PM

The Willard Gibbs Medal

Dr. Michael G. Koehler, Chair
Chicago Section, ACS
The History of the Willard Gibbs Award

Introduction of the Medalist
Professor Tobin Marks
Northwestern University

Presentation of the Medal
Dr. William F. Carroll, Jr.
Chair, ACS Board of Directors

The Citation:

For principal achievements in

- Synthesis and characterization of nanoscale materials
- Fundamental understandings of the properties of nanotubes and nanowires
- Innovations in nanoelectronics and nanophotonics
- Integration of nanoelectronics and biological systems

while advancing the application of nanotechnologies in medical diagnostics, computing, energy, optoelectronic devices and biological sciences.



Dr. Charles M. Lieber
The Mark Hyman Professor of Chemistry, Department of Chemistry and Chemical Biology, Harvard University

ACCEPTANCE ADDRESS

"Nanowires, Nanoscience and Emerging Nanotechnologies"

Abstract: Nanoscience offers the promise of driving revolutionary advances in many areas of science and technology, ranging from electronics and computing to biology and medicine, yet

(continued on page 2)

(continued from page 1)

the realization of this promise depends critically on the rational development of unique nanoscale structures whose properties and/or function are controlled during materials synthesis. What is the status today, and what are the prospects for the future of nanoscience and nanotechnology?

This presentation will address these questions from the speaker's perspective drawing from his work and that of the field broadly defined. First, bottom-up versus top-down paradigms of nanoscience will be introduced, as well the key concept of platform materials needed to drive the bottom-up approach. Second, a brief historical perspective on the emergence of nanowires will be discussed. The 'chemical' synthesis of complex modulated nanowires will be highlighted as a central material in nanoscience for enabling the bottom-up paradigm. Third, selected examples illustrating the interplay between nanoscience and emerging or future technologies will be highlighted.

The concept of assembling a nanocomputer, first introduced by Feynman in 1959, will be introduced, and then the advances made in the past 10+ years will be reviewed and compared to parallel advances in industry. The potential for novel low-power processors for applications from micro-robots to implanted controller in the human body will be discussed. Next, the world-wide issue of energy will be addressed through an examination of past, present, and future efforts in nano-enabled renewable energy production and energy storage. Particular emphasis will be placed on efforts to exploit novel nanostructures for photovoltaic devices and novel paradigms enabled by the bottom-up approach. Last, advances and opportunities at the interface between nanotechnology and the life sciences will be discussed. Applications of inorganic and organic nanostructures as labels for imaging and drug delivery will be examined first. Then development of nanoelectronic devices with the capability to blur the distinction between

electronic circuitry and cells to create 'cyborg' tissues will be described as an example of using nanoscience to realize what was once simply science fiction.

THE MEDALIST:

Charles M. Lieber received his undergraduate degree in chemistry from Franklin and Marshall College and carried out his doctoral studies at Stanford University, followed by postdoctoral research at the California Institute of Technology. In 1987 he assumed an Assistant Professor position at Columbia University, embarking on a new research program addressing the synthesis and properties of low-dimensional materials.

He moved to Harvard University in 1991 and now holds a joint appointment in the Department of Chemistry and Chemical Biology, as the Mark Hyman Professor of Chemistry, and the School of Engineering and Applied Sciences. At Harvard, Lieber has pioneered the synthesis of a broad range of nanoscale materials, the characterization of the unique physical properties of these materials and the development of methods of hierarchical assembly of nanoscale wires, together with the demonstration of applications of these materials in nanoelectronics, nanocomputing, biological and chemical sensing, neurobiology, and nanophotonics. Lieber has also developed and applied a new chemically sensitive microscopy for probing organic and biological materials at nanometer to molecular scales.

Lieber's work has been recognized by a number of awards, including the Willard Gibbs Medal (2013); Wolf Prize in Chemistry (2012); ACS Inorganic Nanoscience Award (2009); NBIC Research Excellence Award, University of Pennsylvania (2007); Nanotech Briefs Nano 50 Award (2005); ACS Award in the Chemistry of Materials (2004); World Technology Award in Materials (2004 and 2003); Scientific American 50 Award in Nanotechnology and Molecular Electronics (2003); APS McGroddy Prize for New Materials (2003); MRS Medal (2002); Feynman Prize in Nanotechnology

(2001); NSF Creativity Award (1996); and ACS Award in Pure Chemistry (1992).

He is an elected member of the National Academy of Sciences and the American Academy of Arts and Sciences and Fellow of the American Chemical Society, Materials Research Society, and American Physical Society. He is Co-Editor of *Nano Letters* and serves on the Editorial and Advisory Boards of a large number of science and technology journals. Lieber also serves on the Technical Advisory Committee of Samsung Electronics. He has published over 340 papers and is the principal inventor on more than 35 patents.

In his spare time, Lieber has been active in commercializing nanotechnology. He founded the nanotechnology company Nanosys, Inc. in 2001, the new nanosensor company Vista Therapeutics in 2007, and nucleated Nantero, Inc. from his laboratory in 2001.

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.

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"CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column and hopes it will reach young children and help increase their interest in science. Please print it out and pass it on to your children, grandchildren, or elementary school teachers. Teachers are encouraged to incorporate the projects in this column into their lesson plans.

Glowing Petroleum Jelly

Kids, what makes certain things glow under black lights? First, let's talk about the light. The reason black lights are called "black lights" is because they give off very little light that our eyes can see. Visible light contains red, orange, yellow, green, and blue, and violet. Beyond violet light in the spectrum is ultraviolet light, which our eyes cannot detect.

First we'll use petroleum jelly as a kind of invisible ink. Dip your finger into a jar of petroleum jelly, and then use your finger to write a message with the jelly on the piece of paper. When you're finished, wipe any remaining jelly off your finger. Have the black light ready, then turn off the room lights and turn on the black light. Can you see the message? Why is something that you couldn't see in room light now visible when you can't see any light?

Can you think of a way to make your hands glow in the dark? If you have thin plastic gloves, put your hands into them (this is optional). Reach into the jar of petroleum jelly and scoop out enough jelly to cover both hands. Rub the jelly well over both hands, and then ask someone to turn off the lights in the room, and to turn on the black light. Hold your hand under the black light. What do you see? If you prefer something less messy, just draw a picture on your hand with Vaseline, like a smiley face. Turn on the black light in a darkened room to see your artwork.

If we can't see ultraviolet light, why does the petroleum jelly glow under the black light? Most of the time when we look at an object, we see light reflected from the surface of the object. But with a black light, there isn't much visible light, so simple reflection of light doesn't account for how bright the jelly glows. Petroleum jelly contains substances called phosphors. A phosphor absorbs radiation and emits it as visible light. So the phosphors in the jelly are absorbing the invisible ultraviolet radiation from the black light and emitting visible light.

Vaseline Petroleum Jelly is a mixture of mineral oils, paraffin and microcrystalline waxes. When these substances are blended together, they create a smooth jelly that has a melting point just above body temperature.

References:

<http://scifun.chem.wisc.edu/homeexpts/vaseline.htm>

Submitted by DR. KATHLEEN CARRADO GREGAR

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

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

**The Chicago Section's e-mail address is
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DIRECTIONS TO THE HILTON GARDEN INN

From North: Take I-294 South to I-190 West to O'Hare Airport (You must have change for the I-190 toll). Exit at Mannheim Road North. Go 1.0 mile to Higgins Road, turn right. Go 0.6 miles to Devon Avenue. Take a slight left. Go 0.6 miles to Des Plaines River Road, turn left. Go 0.3 miles and the hotel will be located on the left side.

From South: Take I-294 North and exit at River Road (You must have change for the River Road toll). Proceed to traffic light and turn left onto Des Plaines River Road. Proceed 1.0 mile to hotel which is located on the left side.

From West: Take I-90 East to I-190 West to O'Hare Airport. (You must have change for the I-190 toll). Exit at Mannheim Road North. Go 1.0 mile to Higgins Road, turn right. Go 0.6 miles to Devon Avenue. Take a slight left. Go 0.6 miles to Des Plaines River Road, turn left. Go 0.3 miles and the hotel will be located on the left side.

From East: Follow I-90 West to I-190 West. Exit at River Road. Turn left onto River Road. Follow River Road one mile to hotel which is located on left side.

Parking: Free parking at the restaurant.

DINNER MENU

Soup du Jour, Mixed Garden Salad; Choice of Santa Maria Broiled Tri Tips with a wild mushroom demi-glaze sauce, Teriyaki Salmon topped with sliced pineapple and oriental teriyaki sauce, Eggplant Parmesan served over spaghetti pasta and topped with tomato basil sauce; Double Chocolate Cake; Wine

ACS INTERNATIONAL CENTER

Through the joint efforts of the ACS Committee on International Activities and the ACS Office of International Activities, ACS is pleased to announce the launch of the ACS International Center (IC). The IC is the first curated, searchable web database of its kind. It lists international exchange and collaboration opportunities in chemistry and the related sciences (grants, scholarships, internships, professional training, and more). Administered by the ACS Office of International Activities, the IC contains information on more than 350 programs in thirteen host countries, sorted across six levels of professional experience. To see it for yourself, visit www.acs.org/ic or e-mail ic@acs.org.

THE WILLARD GIBBS AWARD

Founded by William A. Converse

The award was founded in 1910 by William Converse (1862-1940), a former chairman and secretary of the Chicago Section. The medal was named for Professor Josiah Willard Gibbs (1839-1903) of Yale University. Gibbs, whose formulation of the Phase Rule founded a new science, is considered by many to be the only American born scientist whose discoveries are as fundamental in nature as those of Newton and Galileo.

Mr. Converse supported the award personally for a number of years, and then established a fund for it in 1934 that has subsequently been supported by the Dearborn Division of W. R. Grace & Co. Considerable contributions to the award have also been made by J. Fred Wilkes and his wife.

Since the sale of the Dearborn/Grace division to Betz, the BetzDearborn Foundation, located in Horsham, Pennsylvania has most generously offered to continue the historic relationship between the Section and Dearborn. This Foundation has contributed annually since the purchase toward the Willard Gibbs Medal Fund to help defray the cost of the medal and of the banquet itself--helping to make the banquet award the outstanding and gracious event that it is. We are most appreciative of their support.

The purpose of the award is "To publicly recognize eminent chemists who, through years of application and devotion, have brought to the world developments that enable everyone to live more comfortably and to understand this world better." Medalists are selected by a national jury of eminent chemists from different disciplines. The nominee must be a chemist who, because of the preeminence of his or her work in and contribution to pure or applied chemistry, is deemed worthy of special recognition.

The award consists of an eighteen-carat gold medal having, on one side, the bust of J. Willard Gibbs, for whom the medal was named. On the reverse is a laurel wreath and an inscription containing the recipient's name.

The recipients span over a century of chemistry. Most of the names are familiar to chemists regardless of specialty. This fame may result from later recognition, including, in many cases, the Nobel Prize. Another reason for the familiarity of these names may be that textbooks have permanently associated many of these names with classic reactions or theories. In any case, the fame achieved by the Gibbs medalists has crossed the boundaries between chemistry specialties.

Svante Arrhenius	1911	Vincent du Vigneaud	1956	Nicholas J. Turro	2000
Theodore W. Richards	1912	W. Albert Noyes, Jr.	1957	Tobin J. Marks	2001
Leo H. Baekeland	1913	Willard F. Libby	1958	Ralph Hirschmann	2002
Ira Remsen	1914	Hermann I. Schlesinger	1959	John I. Brauman	2003
Arthur A. Noyes	1915	George B. Kistiakowsky	1960	Ronald Breslow	2004
Willis R. Whitney	1916	Louis Plack Hammett	1961	David A. Evans	2005
Edward W. Morley	1917	Lars Onsager	1962	Jacqueline Barton	2006
William M. Burton	1918	Paul D. Bartlett	1963	Sylvia T. Ceyer	2007
William A. Noyes	1919	Izaak M. Kolthoff	1964	Carolyn Bertozzi	2008
F. G. Cottrell	1920	Robert S. Mulliken	1965	Louis Brus	2009
Mme. Marie Curie	1921	Glenn T. Seaborg	1966	Maurice Brookhart	2010
Julius Stieglitz	1923	Robert Burns Woodward	1967	Robert G. Bergman	2011
Gilbert N. Lewis	1924	Henry Eyring	1968	Mark A. Ratner	2012
Moses Gomberg	1925	Gerhard Herzberg	1969	Charles M. Lieber	2013
Sir James Colquhoun Irvine	1926	Frank H. Westheimer	1970		
John Jacob Abel	1927	Henry Taube	1971		
William Draper Harkins	1928	John T. Edsall	1972		
Claude Silbert Hudson	1929	Paul John Flory	1973		
Irving Langmuir	1930	Har Gobind Khorana	1974		
Phoebus A. Levene	1931	Herman F. Mark	1975		
Edward Curtis Franklin	1932	Kenneth S. Pitzer	1976		
Richard Willstätter	1933	Melvin Calvin	1977		
Harold Clayton Urey	1934	W. O. Baker	1978		
Charles August Kraus	1935	E. Bright Wilson	1979		
Roger Adams	1936	Frank Albert Cotton	1980		
Herbert Newby McCoy	1937	Bert Lester Vallee	1981		
Robert R. Williams	1938	Gilbert Stork	1982		
Donald Dexter Van Slyke	1939	John D. Roberts	1983		
Vladimir Ipatieff	1940	Elias J. Corey	1984		
Edward A. Doisy	1941	Donald J. Cram	1985		
Thomas Midgley, Jr.	1942	Jack Halpern	1986		
Conrad A. Elvehjem	1943	Allen J. Bard	1987		
George O. Curme, Jr.	1944	Rudolph A. Marcus	1988		
Frank C. Whitmore	1945	Richard B. Bernstein	1989		
Linus Pauling	1946	Richard N. Zare	1990		
Wendell M. Stanley	1947	Gunther Wilke	1991		
Carl F. Cori	1948	Harry B. Gray	1992		
Peter J. W. Debye	1949	Peter B. Dervan	1993		
Carl S. Marvel	1950	M. Frederick Hawthorne	1994		
William Francis Giauque	1951	Sir John Meurig Thomas	1995		
William C. Rose	1952	Fred Basolo	1996		
Joel H. Hildebrand	1953	Carl Djerassi	1997		
Elmer K. Bolton	1954	Mario J. Molina	1998		
Farrington Daniels	1955	Lawrence F. Dahl	1999		

SOCIAL MEDIA FOR THE CHICAGO SECTION

As a way to disseminate more information and communicate more effectively with our members, I've created accounts for the Chicago ACS on Facebook, Twitter, and the ACS Network. Please follow us on:

- Facebook (like us at <http://www.facebook.com/pages/American-Chemical-Society-Chicago-Section/226772460669486>)

- Twitter (follow us at <http://twitter.com/#!/ChicagoACS>)

ACS Network (join us at <https://communities.acs.org/groups/chicago-section>)

We can announce meetings and other events, scholarships/grants available to members, volunteer requests...the list goes on!

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Agenda

Microanalytical Techniques: AFM, OP, SEM, EDS, TEM, STEM AES

Surface Organic Techniques: XPS, TOF-SIMS

Thin Film Techniques: SIMS, XRF, XRD, EBSD

Bulk Techniques: ICP-OES/MS, LA-ICPMS, TGA, DTA, DSC

Organic & Polymer Analysis: FTIR, Raman, NMR, GC-MS, LC-MS

Polymer & Plastic Case Studies

Summary: Selecting the Appropriate Analytical Technique

REGISTER TODAY!

Date: Thursday, May 16, 2013

Time: 8:30 am - 5:30 pm

Location:

Sheraton Chicago Northbrook
1110 Willow Road
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Tuition:

- \$375/person
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More info (<http://www.eaglabs.com/mc/working-smarter.html>)

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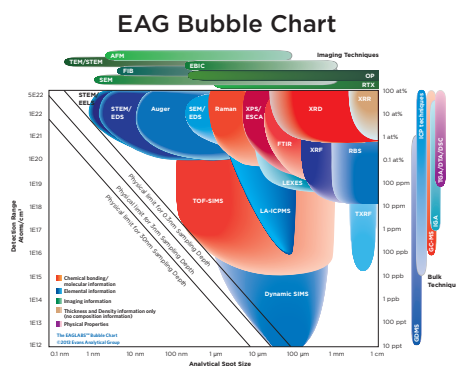


IN MEMORIAM – DUWARD F. SHRIVER

Duward F. Shriver, former Morrison Professor and Chairman, Northwestern University Chemistry Department, passed away on March 6, 2013. Born in 1934 in Glendale, CA, Shriver was raised on Oahu in the Hawaiian Islands. He received his undergraduate degree in 1958 from the University of California, Berkeley, working with William L. Jolly, and his Ph.D. in 1961 from the University of Michigan, working with Robert W. Parry. He spent his entire academic career at Northwestern which began in 1961. He was named Morrison Professor of Chemistry in 1987 and served as Department Chair from 1992 to 1995. Shriver published over 400 scientific works and mentored over 150 students and postdocs. His research interests spanned inorganic and organometallic synthesis, bioinorganic, solid-state, and polymer chemistry, and vibrational spectroscopy. He was a key member of the Materials Research Center and the Ipatieff Catalysis Center at Northwestern.

Among the many professional awards Shriver received for his research are a Guggenheim Fellowship, an Alfred P. Sloan Research Fellowship, the Royal Society of Chemistry Ludwig Mond Medal, the Materials Research Society Medal, and the American Chemical Society Award for Distinguished Service in Inorganic Chemistry. He was a fellow of the American Association for the Advancement of Science. Shriver is survived by his wife Shirley, children Justin, Daniel and their spouses, and two grandchildren.

Published in the *Chicago Tribune* on March 10, 2013



SECTION MEETING DATES 2013

Friday, May 17
Thursday, June 27
Friday, September 27
Friday, October xx (TBD)
Friday, November 22
Friday, December 13

CHEMMATTERS MAGAZINE

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JOIN US AT THE FAIR!

The Chicago Section, jointly with the other ACS Illinois Sections, again plans to have an exhibitor's tent at the Illinois State Fair **August 9-18** in Springfield, IL. Our cooperative tent activities provide information to the public on chemistry with demos, hands-on activities, computer quizzes, posters, literature, and give-aways. They give us a chance to show the positive aspects of chemistry to many Illinois citizens and governmental leaders. **Last year, over 13,300 people visited our tent!**

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

REGIONAL MEETING

Great Meeting in the Great Lakes: GLRM 2013

Early-bird registration is open now for the upcoming 40th ACS Great Lakes Regional Meeting (GLRM), to be held June 5-8, 2013, at the La Crosse Convention Center in scenic La Crosse, WI.

The broad technical program for GLRM 2013 will include several special symposia:

Bio-Energy
Bio-inorganic Chemistry – Career Highlight Michael Collins
Biological Role of Histone Modifications
Chemical Education – including high school teacher topics
Chemistry of Eating Disorders
Ethics in Applied Science

The GLRM 2013 program will also include general sessions on Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, and Undergraduate Research. Special events at GLRM 2013 will include workshops for small businesses and entrepreneurs, an awards banquet, career workshops and leadership training, plus social outings like a brewery tour and Mississippi River excursions.

Register today and make plans to join your colleagues at GLRM 2013 in La Crosse - it's going to be another great ACS Regional Meeting!

Visit <http://glrm-lax.sites.acs.org/registration.htm>

HELP WANTED

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HNC Products Inc., an international R&D and Custom dermatology products manufacturing company centrally located on a 15 Acres campus, outside of Clinton, IL, is looking for an experienced Formulation Chemist to join their R & D group.

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

ACS MEMBER SCIFINDER BENEFIT

The American Chemical Society announces a new benefit exclusively for ACS members. Chemical Abstracts Service (CAS), a division of the ACS, is now providing limited complimentary **SciFinder access** through the **NEW ACS Member SciFinder Benefit**.

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MY ACS STORY

Growing Personally and Professionally

Recently, ACS members have been invited to share their reasons for joining and maintaining their membership in the Society. Presented below, 50-year member **Anne Sherren**, emeritus professor of chemistry at North Central College (Naperville, IL), succinctly recalls a career-spanning relationship with the Society and the many advantages she enjoyed as a result.

"I joined the ACS in graduate school. My subscriptions to ACS publications helped me with my graduate research. When I decided that I wanted to change employers, I answered an ad in C&E News. I had one job interview, and got a job that lasted for 35 years until I retired. I also benefited from attending local section and national meetings. National meetings provided me a place to present papers and network with other chemists. I have grown personally and professionally from the many leads and contacts I made by attending both local section and national ACS meetings. Being an ACS member also provided me with an opportunity for my students to present papers. As a 50-year member, I still value my membership in ACS."

ANNE SHERREN
ACS Matters, March 12, 2013

If you would like to report your ACS story, go to <http://surveys.acs.org/se.ashx?s=04BD76CC7A638D1F>

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SPONSORS NEEDED--STATE FAIR CHEMISTRY TENT PROJECT

The Chicago Section, along with the other Illinois Sections of the ACS, is again planning to have an exhibitor's tent at the Illinois State Fair August 9-18. **Last year, over 13,300 people visited our tent.** The tent provides science outreach to the public on chemistry through demos, hands-on activities, literature, and give-aways.

We are looking for individuals and companies to help sponsor our tent this year. In return for financial contributions, we will display your company's name at the front of the tent as a sponsor and on CDs with information given to over 200 teachers throughout the state of Illinois as well as Missouri, Iowa, and Indiana. **This is a great way to get your company recognized in the public and to promote chemistry.** If you are interested in making a donation to help keep this worthwhile public outreach project going strong, please call the Section office at (847) 391-9091. Thank You!

SCIENCE NEWS AT THE ACS PRESSROOM BLOG

Check out the new weekly ACS Pressroom Blog, your source for science news based on reports from the Society's 40+ peer-reviewed journals. It features four categories of stories. The Medical Bond covers topics in health and medicine. The Food Court highlights food and nutrition. Flowers & Power describes innovations in environmental science and energy. Finally, Pressroom Perspectives describes ACS' Science Communications activities. The blog is on the ACS Network at communities.acs.org/community/science/science_news.

THE CHEMICAL BULLETIN ADVERTISING RATE SCHEDULE

The official newsletter of the Chicago Section American Chemical Society, The Chemical Bulletin, publishes news and information of interest to the Section's 4,383 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

SIZE	DIMENSIONS	RATE
Full Page	7.5" wide x 10" depth	\$700
2/3 Page (2 columns)	4.917" wide x 10" depth	\$530
1/2 Page	3.75" wide x 10" depth	\$500
1/3 Page (1 column)	2.333" wide x 10" depth	\$360
1/2 Column	2.333" wide x 5" depth	\$190
Business Card	3.5" wide x 2" depth	\$95

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ASK AN ACS CHEMIST

Do you remember being a student, and searching for an answer to a relatively simple question for a term paper, homework or maybe project of some sort? Rather than spending copious amounts of time perusing periodicals and journals, it would have been much easier to pose your question directly to someone who has expertise in the field, right? Well, there are many students now facing the same dilemma and we would like you – the expert – to lend them a helping hand.

The ACS is launching a new program called "Ask an ACS Chemist". Our Publications Division technical support for ACS journals receives roughly 10-15 science-related inquiries each week, typically from high school and undergraduate students. The questions are usually along the lines of:

How does the microscopic method determine particle size?

Which enzyme is inhibited by zinc in Alzheimer's?

What is chemical equilibrium?

Currently when we receive these questions, one of our staff members will direct them to a host of journals where the student may or may not find an answer. We would like to offer the students a more personal touch by funneling those questions to a collective of scientific professionals, such as yourself, and allowing you to share your expertise on the subject matter. We anticipate this initiative will require very little commitment on your end; you may contribute as often as you choose.

The format will be a forum of threaded posts in an ACS Network group to which you would be invited to join. You would then begin receiving the notifications as new questions are posted and can log in to view and/or comment where you feel comfortable. All we would need from you to participate is to merely reply to this email letting us know you are interested and we will invite you to join the Network group. Just think how immensely such a modest connection between yourself and a student could impact their future in chemistry.

If you have any questions about this program, feel free to contact outreach@acs.org.

CALENDAR

May 5: Lederman Science Center: Ask-a-Scientist Guided Tour of Fermilab: "Energy: No Such Thing as a Free Lunch" by Eric Prebys, 1 - 4 pm at Fermilab, Wilson Hall, Batavia. Free. Register by noon, May 3 http://eddata.fnal.gov/lasso/programsearch/calendar_new.lasso

May 16: ChemPharma Career Fair, Fountain Blue Banquets Conference Center, 2300 Mannheim Road, Des Plaines, IL. For more information, contact Paul Munger, pmunger@att.net, (815) 494-3679.

May 17: Chicago Section ACS Willard Gibbs Award Banquet. Charles Lieber, the Mark Hyman Professor of Chemistry at Harvard University, is the recipient of the 2013 Willard Gibbs Medal. **See details in this issue.**

June 5-8: 2013 ACS Great Lakes Regional Meeting (GLRM 2013) in La Crosse, Wisconsin. Visit <http://glrm-lax.sites.acs.org/>

June 27: Chicago Section ACS Dinner Meeting in Valparaiso, Indiana. Speaker is Andy Jorgensen on "Climate Change." **The Distinguished Service Awardee is Milt Levenberg.**

July 15-19: Inter/Micro: 64th Annual Applied Microscopy Conference, Chicago, IL. Hosted by McCrone Research Institute. For further information, contact Julie Antia, conference coordinator, at 312-842-7100 or go to www.mcricri.org

August 9-18: ACS Illinois Sections' cooperative science 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>

September 8-12: 246th ACS National Meeting & Exposition, Indianapolis, Indiana

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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 toher section information. Contact the office at 847-391-9091 or at chicagoacs@ameritech.net.

HELEN M. FREE OUTREACH AWARD — WHO DO YOU KNOW WHO'S MAKING A DIFFERENCE?

Do you know someone who excites children with chemistry demonstrations? Or who "gets the microphone" to talk about chemistry to the public? Or who serves as a chemistry ambassador for local outreach activities?

The Helen M. Free Award for Public Outreach recognizes outstanding achievements by a member of the ACS who improves public recognition and appreciation for chemistry. Visit www.acs.org/helenfreeaward for more information and the online nomination form. Nominations for the 2013 award are requested by **May 15, 2013.**

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DO YOU KNOW ABOUT THE 102nd WILLARD GIBBS AWARD DINNER ON FRIDAY, MAY 17, 2013 AT THE HILTON GARDEN INN IN DES PLAINES, IL?

For just \$ 40, you get the following:

- attendance at the 102nd Gibbs Award Dinner! Prior award winners include Svante Arrhenius, Marie Curie, Linus Pauling and other top chemists of the 20th and 21st centuries
- an internationally renowned chemist, Charles Lieber of Harvard University, 2013 Gibbs Award Dinner, giving a talk about his fascinating research
- a great dinner with extras such as appetizers, wine, and two complimentary drinks!
- the opportunity to network with chemists excited about meeting you

Join us for a social hour that begins at 6 PM (with hors-d'oeuvres and complimentary drinks), dinner at 7 PM, and Dr. Lieber's talk beginning at approximately 8:30 pm.

Dinner Menu includes
Soup du Jour, Mixed Garden Salad;

WITH A CHOICE OF
Santa Maria Broiled Tri Tips with a wild mushroom demi-glaze sauce
Teriyaki Salmon topped with sliced pineapple and oriental teriyaki sauce
Eggplant Parmesan served over spaghetti pasta and topped with tomato basil sauce

and Double Chocolate Cake

Reservations are required. Please register at www.ChicagoACS.org or call the Chicago Section office at 847-391-9091 by **Monday, May 13** and pay \$40 at the door. Members of the Chicago Local Section who are students, unemployed, or retired are eligible for half price tickets. No refunds will be made after noon on Monday, May 13, 2013.

Please come to salute the recipient and rejoice in Dr. Lieber's achievements and his contributions to the science of Chemistry. Join us for this gala event!

After all, where else can you hear a Great Chemist
AND get Double Chocolate Cake!