

theCHEMICALbulletin

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MAY • 2004

**THE NINETY-THIRD PRESENTATION OF THE
WILLARD GIBBS MEDAL
(Founded by William A. Converse)
to
PROFESSOR RONALD BRESLOW
sponsored by the
CHICAGO SECTION AMERICAN CHEMICAL SOCIETY**

FRIDAY, MAY 21, 2004

**North Shore Lights at The
Hotel Moraine
700 North Sheridan Road
Highwood, Illinois
847-433-6366**

DIRECTIONS TO THE MEETING

From the North or South: Take I-294 (the TriState Tollway) to Route 22. Exit east, take it to Route 41 (Skokie Hwy). Turn north to the next exit, Old Elm. Go east on Old Elm to Sheridan Road (just across some railroad tracks). Turn right/south for 3/4 mile. The hotel is on the right.

From Downtown: Take the Kennedy Expressway north. At the split, follow the Edens Expressway, which turns into Skokie Highway past Lake Cook Road. Continue north to Old Elm Road. Turn right/east on Old Elm and follow the directions above to the hotel.

Parking: Free

RECEPTION 6:00-7:00 P.M.

DINNER 7:00 P.M.

Dinner reservations are required. Please send in the form enclosed in this issue to the Chicago Section office at 7173 N. Austin, Niles, IL 60614 with your menu choice, your name and affil-

iation for a nametag, and your check. Be sure to include your address. Tables for ten are available. If you would like a table for a group, please put their names on a separate sheet and include it with your registration.

(continued on page 2)

AWARD CEREMONY 8:30 P.M.

The Willard Gibbs Medal

Milt Levenberg, Chair
Chicago Section, ACS

Introduction of the Medalist

Madeleine Jacobs
Executive Director & CEO, ACS

Presentation of the Medal

Dr. Charles P. Casey
President, ACS

Citation: For seminal work in the development of anti-aromaticity; for pioneering work in bioorganic chemistry; for inspiring the creation of the field of biomimetic chemistry, and for research in organic chemistry leading to advances in medical applications.

Acceptance of the Award



Dr. Ronald Breslow
Samuel Latham Mitchill Professor of
Chemistry and University Professor
Department of Chemistry
Columbia University
New York, NY

(continued on page 2, Column 1)

**NOTICE TO ILLINOIS
TEACHERS**

The Chicago Section-ACS is an ISBE provider for professional development units for Illinois teachers. Teachers who register for this month's meeting will have the opportunity to earn up to 4 CPDU's.

ACCEPTANCE ADDRESS

"Progress on a New Approach to Cancer Chemotherapy"

Abstract: We have developed a group of potent molecules that accomplish a number of important goals in cancer therapy with a wide range of cancer types. 1) The cancer cells cease growth. 2) They can differentiate into normal non-cancerous cells. 3) In some cases they undergo apoptosis, programmed cell death. The compounds do not show significant toxicity, are orally active, and the lead compound has successfully finished phase 1 and 2 clinical trials. The intellectual path that led to the potent compounds will be described, as well as the evidence on how they work and the results of animal and human trials.

THE MEDALIST

Ronald Breslow was born in Rahway, New Jersey on March 14, 1931. He received his undergraduate and graduate training at Harvard University, where he did his Ph.D. research with Professor R.B. Woodward. He then spent a year in Cambridge, England as a postdoctoral fellow with Lord Todd, and came to Columbia University in 1956 as Instructor in Chemistry. He is now the Samuel Latham Mitchill Professor of Chemistry at Columbia and one of twelve University Professors, and a former Chairman of the Department.

Professor Breslow's research interests can be described generally as involving the design and synthesis of new molecules with interesting properties, and the study of these properties. Examples include the cyclopropenyl cation, the simplest aromatic system and the first aromatic compound prepared with other than six electrons in a ring.

His work establishing the phenomenon of anti-aromaticity has involved the synthesis of novel molecules, as well as their study. Even in work on purely mechanistic questions, such as his discovery of the chemical mechanism used by thiamine (vitamin B-1) in biochemical reactions, the synthesis and study of novel molecules played an important role.

Although he continues his interest in unusual conjugated systems, his major emphasis in recent years has been on the synthesis and study of molecules that imitate enzymatic reactions. This work has included the development of remote functionalization reactions and the development of artificial enzymes.

Recently he has developed a new group of cytodifferentiating agents with potential use in cancer chemotherapy. He is the author of over 400 publications.

He is a member of the U.S. National Academy of Sciences (Chairman of the Chemistry Division 1974-77), of the American Academy of Arts and Sciences, and of the American Philosophical Society (member of the Council, 1987-92), as well as other scientific societies including the New York Academy of Sciences. He is a Foreign Fellow of the Indian National Science Academy, an Honorary Member of the Korean Chemical Society, an Honorary Member of the Royal Society of Chemistry of Great Britain, a Foreign Member of the Royal Society of Britain, a Fellow of the World Innovation Foundation, an Honorary Member of the Chemical Society of Japan, and an Honorary Professor of the University of Science and Technology of China.

He has been the Chairman of the Board of Scientific Advisors of the Alfred P. Sloan Foundation, and a member of the Board of Trustees of Rockefeller University. He is on the Editorial Board of a number of scientific journals, and has held over 200 named and visiting Professorships.

His major scientific awards include the American Chemical Society Award in Pure Chemistry (1966), the Fresenius Award of Phi Lambda Upsilon (1966), the Baekeland Medal (1969), the Centenary Medal (1972), the Harrison Howe Award (1974), the Remsen Prize (1977), the Roussel Prize in Steroids (1978), the James Flack Norris Prize in Physical Organic Chemistry of the American Chemical Society (1980), the Richards Medal (1984), the Arthur C. Cope Award (1987), the Kenner Award (1988), the Nichols Medal (1989), the National Academy of Sciences Award in Chemistry (1989), the Allan Day Award (1990), the Paracelsus Award and Medal of the Swiss Chemical Society (1990), and the U.S. National Medal of Science (1991). He was named one of the top 75 contributors to the chemical enterprise in the past 75 years by *Chemical & Engineering News* (1997), and won the Priestley Medal (1999). In 2000 he won the New York City Mayor's Award in Science and in 2002 he has received the ACS Bader Award in Bioorganic or Bioinorganic Chemistry and the Esselen Award for Chemistry in the Public Interest. In 2003 he received the Robert Welch Award in Chemistry.

He has also received the Mark Van Doren Medal of Columbia University and the Columbia University Great Teacher Award. He was President-Elect of the American Chemical Society (1995), was ACS President (1996), and was ACS Immediate Past President (1997).

(continued from page 1, Column 2)

Tickets will be sent to you by mail. On-line registrants may pick up their tickets at the door. No refunds will be made after noon Tuesday May 18 for cancellations or no-shows.

The cost of the dinner is \$40 for members and guests. The cost to non-members is \$42. The cost for students, unemployed members and retirees is \$20. Note: Professors must make student reservations.

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

THE MENU: Lobster Bisque; Salad Maison with a field of greens, peppered orange, and tomato; Main course choice of either Filet Mignon accented by Grilled Jumbo Shrimp or Broiled Norwegian Salmon dressed with Lemon Lime Herb Sauce; Duchess Potato; Steamed Vegetable Medley. A vegetarian entrée of a Portabella Mushroom Tower atop Linguine Pasta adorned with red and green bell peppers, onions, and fresh spinach is available on request. Dessert is a Flourless Chocolate Torte. Wine will be served with dinner.

**REGISTER TO ATTEND
MONTHLY SECTION MEETINGS
ON LINE
at
www.ChicagoACS.org**

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"CHEM SHORTS" For Kids

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

Goopy Worms

Kids, do you want to make some slimy, goopy worms for you and your friends? Of course you do! Here is what you will need. Have an adult partner buy some Gaviscon™ liquid antacid and some calcium-fortified orange juice. Then all you need is some optional food coloring, a squeeze bottle with a narrow spout, a bowl (a shallow one works best), and a spoon. Fill the squeeze bottle with Gaviscon™ (here is where you can add food coloring if you like). Simply squeeze this into a bowl of the orange juice, and your worms should form instantly.

The longer the worms stay in the juice, the more rigid they become. You can lift them out using a pencil and touch them. Pull them apart to test how strong they are, for example, and if they get stronger the longer they sit in the juice (a few hours is best). What's happening here? Your goopy worms are called polymers. A polymer is a large molecule made up of many smaller molecules linked together like a long chain. You can get an idea of this by hooking together a long series of paperclips. This chain represents the sodium alginate polymers in the Gaviscon™ solution. When these chains are put in the orange juice, the calcium ions (Ca^{2+}) act to cross-link them. Make two paperclip alginate chains. Then, at a few points along the first paperclip chain, add dangling single clips and attach them to the other long chain. When you are done it should look a bit like a chain-link ladder. Imagine continuing this process to make a 3-D mesh, which happens the longer the worms sit in the juice.

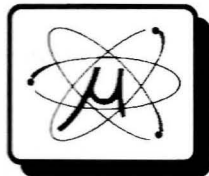
The Gaviscon™ is needed because it has sodium alginate in the formulation. Sodium alginate is a commonly used thickener in ice cream, cheese spread, and even in the red pimento strips in green olives. Mixing this with the calcium ions that are in the orange juice forms the cross-linked polymer gel "worms". You might also try calcium-fortified milk.

Reference: Check the "Stuff for Teachers" link at www.strangematter

exhibit.com. This experiment is on page 25 of the Teacher's Guide. **Strange Matter** is a traveling exhibition developed by the Ontario Science Centre and presented by the Materials Research Society with the support of the National Science Foundation.

Written by KATHLEEN CARRADO

All past "ChemShorts": <http://member.ship.acs.org/C/Chicago/ChmShort/kiindex.html>.



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HOSPITALITY MENTORS

The Hospitality Committee is looking for Chicago Section members who enjoy helping new members become acquainted with the Section. You will be paired up with new member who would like to learn about the Chicago Section and have a person to join them at a monthly dinner meeting. It is always hard to feel comfortable when you are new and don't have anyone to talk at a monthly dinner meeting. Let's show others how warm the Chicago Section can be! If you are interested please contact Fran Kravitz at (630) 293-4122 or e-mail FK1456@sbcglobal.net

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR

May, 2004 Vol. 91, No. 5. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor, and Fran Kravitz; Avrom Litin, Publications Business Manager. Address: 7173 North Austin, Niles, Illinois 60714; 847/647-8405. Subscription rates: \$15 per year, \$15 outside North America. Frequency: monthly-September through June.

ILLINOIS STATE FAIR Volunteers Needed

The Chicago Section, American Chemical Society along with Decatur-Springfield, East Central, Illinois-Iowa, Kentucky Lake, Peoria, Rock River, Southern Illinois and St. Louis Sections will have a cooperative tent at the Illinois State Fair this year. The Illinois State Fair is from August 13 to August 22 in Springfield. This tent will provide information to the public on chemistry, chemical education, demos, etc. Last year, over 700,000 people went to the Illinois State Fair. This will give us a chance to touch the lives of many Illinois citizens and governmental leaders.

Our Section is currently looking for volunteers to help during the fair and also people interested in the initial phase of planning this project. Our first planning meeting was held in Peoria on March 13. Future meetings will also be held in Peoria because of its central location to other Sections in Illinois. These meetings will generally be held on a Saturday. If you are interested in helping during the State Fair in August, helping on the planning committee for the tent, or want to be on the mailing list — just call the Section office at (847) 647-8405.

CHERLYN BRADLEY & FRAN KRAVITZ
CO-CHAIRS, AD-HOC COMMITTEE ON
THE ILLINOIS SECTIONS OF THE ACS
COOPERATIVE STATE FAIR PROJECT

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NEW CAREER MANAGEMENT TOOLS ONLINE

Need to give your job search a shot in the arm? Visit **chemistry.org/careers** and explore Advanced Career Tools (ACT), a new Department of Career Services program that offers a range of ways to help you manage your career.

For example, if you are considering changes in your career, planning the next steps in your career, or just feeling stuck in your current role, take advantage of the Behavioral Style Inventory and get a one-paragraph summary analysis at no charge. This assessment takes just 10 minutes to complete. Understanding your strengths provides you with greater confidence in interviews and enhances your ability to communicate in the workplace.

The fee-based tools are discounted for members. They include personal career coaching that can provide one-on-one assistance in areas such as: learning to succeed in performance reviews, developing skills in negotiating salary, and obtaining a detailed, online analysis of how you typically react to problems and challenges at work.

These career tools include career frequently asked questions (FAQs), a free searchable database of nearly 300 articles on job search and career development. Explore the database to inquire about resume writing, interviewing, legal issues, stock options, salary negotiations, and more.

Other benefits to members are e-mail access to a career expert for prompt answers to career issues. ACT also provides automatic e-mail alerts on topics of specific interest to the member.

Whether you're facing a career transition, interview, performance review, relocation, pending retirement or other life-changing career challenge, ACT will help you understand the issues involved.

DEADLINES FOR CHEMICAL BULLETIN

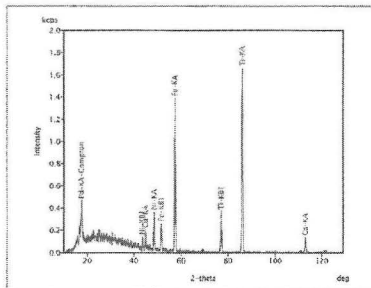
Please submit all Chemical Bulletin copy to the editor before the deadlines listed below for each issue. Articles can be emailed to the editor, Cheryl Bradley, **cbrad1027@aol.com**.

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.

Issue	Deadline
September 2004	7/16/04
October 2004	8/27/04
November 2004	9/24/04
December 2004	10/22/04

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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 augmented by the Dearborn Division of W. R. Grace & Co. J. Fred Wilkes and his wife have also made considerable contributions to the award.

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 pre-eminence of his 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.

Given annually for eighty-nine years, the recipients span three-quarters of 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, or the reason 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.

Svente Arrhenius 1911

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

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CHEMICAL HERITAGE FOUNDATION WEBSITE

The Chemical Heritage Foundation's website is now faster, easily searchable, and much easier to use. Available on this website is the history of the chemical and molecular sciences through interactive education modules, oral histories, images from the world's largest collection of alchemical art, and news that makes history. Log on to: www.chemheritage.org.

ALMA E-NEWS

Lab Safety Incident Reports

Preservation of the collective knowledge and experience of risky behaviors learned over the years is an important element in managing laboratory safety — those who don't know history are doomed to repeat it. New lab staff are usually thoroughly trained in the use of personal protective equipment and well versed in safety rules but how are they to learn the dangers of inserting glass tubing into a rubber stopper or recognize the potential tipping hazard of a tall graduated cylinder of sulfuric acid? Many of these hazards in the lab are known because of past incidents so it is important that we preserve a record to pass along these hard learned lessons in training our staff. This could be as simple as keeping a binder of all the incident reports and near misses reported for the laboratory as far back as records permit.

At a recent local ALMA meeting, one manager reported that he supplemented these records with a more visual approach. He let his staff select a large poster of a person (with suitable constraints on dress, of course) and then placed bandages or other indicators of all past injuries on the poster.

If we had a mechanism for sharing these experiences between our labs then we could all benefit from each other's experiences. Wouldn't it be great if incident reports could be collected (suitably edited to eliminate names and company to satisfy the lawyers), compiled and analyzed, and the results reported for training staff and identifying hazards?

Past ALMA (Analytical Laboratory Managers Association) e-News editions are available at the website <http://www.labmanagers.org/>.

If you have any comments, cost saving suggestions, opinions, etc. let me hear from you.

WAYNE COLLINS
wayne.collins@bpsolvaype.com

FREE T-SHIRTS

The Hospitality Committee raffles one T-shirt at each monthly dinner meeting. The shirt has Chicago spelled out using the periodic table. So come to a monthly meeting and maybe you'll win one!

**Congratulations to T-shirt winner
Reena Huddar (March meeting).**

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR

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WCC COLUMN

Members of the Chicago Section's Women Chemist Committee (WCC) are developing outreach plans for Chicago area section members and the community. These plans include a column in the Chicago Bulletin covering topics such as networking, career development, and vignettes of women in chemistry. This month's topic is Dr. Ka Yee Lee.



Dr. Ka Yee Lee of the University of Chicago was interviewed by Margaret Stowell Levenberg including questions suggested by Dr. Connie Jeffery of the University of Illinois at Chicago. Dr. Lee was born in Hong Kong, graduated from Brown University in 1986, and earned a Ph.D. in applied physics in 1992 from Harvard University. Dr. Lee joined the faculty at University of Chicago in 1998, and has been an Associate Professor since 2002. Dr. Lee's research group carries out fundamental studies on the interactions between lipids and proteins to gain insights into the biophysical aspects of diseases, including Respiratory Distress Syndrome (RDS) and Alzheimer's Disease, by studying lung surfactant peptide SP-B and Amyloid-Beta Peptides, respectively.

Dr. Lee knew early on that both teaching and research would be important in her career. She was excited by several mentors, among them an undergraduate professor, who showed her the joy of discovery through research. Although her current research interests have diverged from those of her undergraduate advisor, they are still in regular contact, and she greatly values his input in her growth as a scientist. Since her undergraduate research experience has played a crucial role in her decision to pursue a career in science, Ka Yee makes a conscious effort to include undergraduates in her research group. It is her belief that experiencing the excitement of scientific discovery first-hand may

help inspire students to pursue a scientific career.

In both grant writing and job applications, Ka Yee emphasizes the need to be clear in articulating what you want to do and achieve. She is careful to let the evaluators know why the problem she chooses to tackle is important, and how her background and experience could help her to accomplish the goal set for the project. When Ka Yee wrote grant applications for her research in beta amyloid peptides, she had no prior experience in the field. However, by showing that her expertise in her lung surfactant work could be applied to this area of research, she was able to attract funding for this study.

As to how undergraduate and graduate students should choose a lab for research, Ka Yee thinks that the students should talk to the students in the lab as well as the potential advisor. Not only is it important to find out about the scientific interests of the lab, it is also important to understand how the lab functions and to determine whether the lab would work for the student. Ka Yee emphasizes that one needs to recognize an environment that can bring out one's best, with projects that the student finds exciting.

While Ka Yee has not found being a woman to be a barrier in her career moves, she has found that the demand on her time for various committees and mentoring relationships is high, since there are not as many women available. While these are highly worthwhile services, she cautions one not to overcommit and emphasizes the importance of striking a balance to ensure that you will be able to do well in what you want to do.

I would like to thank Dr. Lee for her time and her focus on ways to help women in science advance their careers.

MARGARET LEVENBERG

WCC MEETING

The Women Chemists Committee is meeting Thursday, May 13th at 5:30 pm in the conference room at TEL Analytical, 7177 N Austin, Niles. For the past few months we have been featuring women chemists and their contributions in the Chemical Bulletin. These have been a success and will continue, but we may want to plan some future programs and activities and are looking for ideas. Please join us with your suggestions. Everyone is welcome.

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ALMA DISTINGUISHED SERVICE AWARD — CALL FOR NOMINATIONS

The Analytical Laboratory Managers Association (ALMA) is currently soliciting nominations from the analytical laboratory community to receive the second annual Distinguished Service Award for Analytical Laboratory Management. The award, sponsored by Agilent Technologies, is intended to recognize outstanding performance and service to the profession of analytical laboratory management. Last year's recipient was Dr. David Green, the longtime editor of *Managing the Modern Laboratory*.

Potential recipients of the award should have demonstrated excellence in several or all of the following categories: publications in *Managing the Modern Laboratory*, *AOAC*, or other journals on topics relevant to laboratory management; at least ten years of successful experience and accomplishments in analytical laboratory management; active participation in the ALMA or other laboratory management organizations; successful mentoring and development of new laboratory managers; laboratory management achievement of national or international significance; service lending distinction to the profession of analytical laboratory management.

Anyone meeting the above criteria is eligible for the Lab Manager of the Year Award. The awardee is not required to be an ALMA member.

Nominations should consist of a letter from the nominator detailing the service to the profession to be recognized. Supporting letters can be included with the nomination. Self-nominations are permitted. Nomination deadline is June 1, 2004.

For additional information or to submit nominations, please contact: ALMA, 2019 Galisteo St., Bldg. I-1, Santa Fe, New Mexico 87505; (505) 989-4683; email: alma@labmanagers.org.

SAFETY PUBLICATIONS FROM ACS

The ACS Joint Board-Council Committee on Chemical Safety (CCS) announces the availability of the seventh edition of *Safety in Academic Chemistry Laboratories (SACL)*. This edition has two volumes: volume 1 for college and university students; and volume 2 for faculty, graduate teaching assistants, and administrators. These publications may be ordered from ACS (single copies are free) and may be viewed in PDF on the Committee website, <http://chemistry.org/committees/ccs>.

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Death Notice

Dr. John Pople, Nobel laureate and Board of Trustees Professor at Northwestern University passed away March 15 of this year. He was awarded the Nobel Prize in chemistry in 1998 for his pioneering contributions in developing computational methods making possible the theoretical study of molecules, their properties, and how they act together in chemical reactions. To make his computational techniques easily accessible to researchers, Pople designed the GAUSSIAN computer program used by thousands of chemists.

He received numerous other awards and honors, including the 2002 Copley Medal from the Royal Society, an honorary doctorate from Cambridge University in 2001, the American Chemical Society's 1998 Award in Theoretical Chemistry, and the Wolf Prize in 1992, considered equivalent to the Nobel Prize.

Born in the United Kingdom, Pople was a British citizen. He received his Ph.D. in mathematics at Cambridge in 1951. He became professor of chemical physics at Carnegie-Mellon University in 1964, an adjunct professor of chemistry at Northwestern in 1986 and Board of Trustees Professor at Northwestern in 1993.

CONTACT THE CHAIR

Do you have any questions, suggestions, recommendations, ideas, gripes, complaints, or pet peeves relating to the Chicago Section? Do you want to volunteer, help out, or lend a hand with Section programs or activities? Then contact your Chair. Simply log onto the Section's Web Page at <http://chicagoacs.org>, find the green button "Contact the Chair", and send me an e-mail. If I can answer your query I will respond personally. If I can't I will forward your e-mail to someone who can, or try to provide you with a contact — all in a timely manner. The Section belongs to you and the other 5,600 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. But you can also make it fail by not being involved. I look forward to hearing from you.

MILT LEVENBERG
Chair

CHEMISTRY RESOURCES ON THE WEB

Here are a number of interesting web sites related to chemistry. Most contain jokes and songs.

<http://www.fit.edu/AcadRes/chemistry/kwinkel/lyrics/frames.html>

<http://skynet.oir.ucf.edu/~mschell/Chemistry/>

<http://www.chem.leeds.ac.uk/delights/>

<http://www.liv.ac.uk/Chemistry/Links/links.html>

<http://www.xs4all.nl/~jcdverha/scijokes/>

http://www.xs4all.nl/~jcdverha/scijokes/3_1.html

<http://www.heptune.com/chemtale.html>

<http://www.heptune.com/geosong.html>

<http://www.chemplace.com/>

<http://www.superdeluxe.com/elemental/>

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An affiliate membership entitles you to the benefits of the Chicago Section American Chemical Society. This includes a subscription to *The Chemical Bulletin* and the member's \$2 discount on dinners at monthly meetings.

NOTE: Affiliate membership does not include voting privileges nor does it bestow any rights or benefits associated with membership to the National American Chemical Society. It does not include a subscription to *Chemical & Engineering News*.

CHEMICAL HERITAGE FOUNDATION TO HOLD FOURTH ANNUAL LEADERSHIP INITIATIVE IN SCIENCE EDUCATION

The Chemical Heritage Foundation (CHF) will hold its fourth annual Leadership Initiative in Science Education (LISE 4) on May 20-21, 2004. The theme of the 2004 conference is "Partners in Innovation: Science Education and the Science Workforce." Speakers include Elsa Reichmanis, immediate past president, ACS; Joseph Bordogna, deputy director, National Science Foundation (NSF); and Ron Webb, manager of doctoral recruiting and university relations, Procter and Gamble.

LISE 4 will bring together leaders from education and industry who are at the forefront of efforts to sustain and build America's science workforce. By engaging these leaders in a rigorous dialogue, the conference will seek to define the skills required by science and technology professionals to succeed in the global workforce, and to define the profile of science education needed for the 21st century. The conference will take place at the Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, Pennsylvania.

LISE 4 will provide a forum for discussing many of the issues highlighted in such recent national reports as *The Science and Engineering Workforce: Realizing America's Potential*, issued in August 2003 by the National Science Board at the NSF, and *Learning for the Future: Changing the Culture of Math and Science Education to Ensure a Competitive Workforce*, issued by the Committee for Economic Development in May 2003.

A reception, dinner, and keynote address by Reichmanis will kick off the conference on the evening of Thursday, May 20. During Friday's sessions, presenters and participants will examine the factors influencing today's global science workplace and how these factors can and should affect the nature of science education. The final session will use the "biomonitoring movement," a new public response to industrial chemistry, as a case study to evaluate scientific literacy of the lay public, the "workplace skills set" of scientific professionals, and the implications for science education.

Conference presenters, in addition to those mentioned above, are:

- Jerry Bell, senior scientist, ACS
- Sally Goetz Shuler, executive director, National Science
- Resources Center

—Peter Henderson, director, Board on Higher Education and Workforce, the National Academies

—Linda Rosen, consultant and former executive director, National Commission on Mathematics and Science Teaching for the 21st Century (the Glenn Commission)

—Sara Schechner, David P. Wheatland Curator of the Collection of Historical Scientific Instruments, Harvard University

—Conrad Stanitski, professor of chemistry and department chair, Central Arkansas University, and editor of *Chemistry in Context*

—Sylvia Ware, director, Education and International Activities Division, ACS


—Gerry Wheeler, executive director, National Science Teachers Association

Following the conference, CHF will prepare and distribute a white paper, which will include the text of the presentations, a summary of the workshop discussions and case-study analysis, and an outline of issues for the next LISE conference.

The conference is free, but space is limited. Register online by May 7 at www.chemheritage.org (click on "Events & Activities" and select LISE 4 from the "Search by Name" menu). If you have questions, contact Don McKinney at 215-925-2178, ext. 320, or at donm@chemheritage.org. LISE 4 is generously supported by The Dow Chemical Company.

About the Chemical Heritage Foundation:

The Chemical Heritage Foundation (CHF) serves the community of the chemical and molecular sciences, and the wider public, by treasuring the past, educating the present, and inspiring the future. CHF carries out a program of outreach and interpretation in order to advance an understanding of the role of the chemical and molecular sciences, technologies, and industries in shaping society; maintains a world-class collection of materials that document the history and heritage of the chemical and molecular sciences, technologies, and industries; and encourages research in its collections. For more information, visit www.chemheritage.org.



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**AMERICAN CHEMICAL SOCIETY CHICAGO SECTION
2004 WILLARD GIBBS MEDAL AWARD PRESENTATION
FRIDAY, MAY 21, 2004**



You and your guest(s) are cordially invited to attend the 93rd presentation of the Josiah Willard Gibbs medal to Ronald Breslow, S.L. Mitchell Professor of Chemistry and University Professor at Columbia University, Friday, May 21, at North Shore Lights, Hotel Moraine, 700 North Sheridan Road, Highland, IL. A social hour begins at 6 PM. Dinner is served at 7 PM. Dr. Breslow's talk will begin at approximately 8:30 pm.

After a social hour with hors-d'oeuvres and two free cocktails, dinner on this special occasion includes Lobster Bisque, Salad Maison with a field of greens, peppered orange, and tomato; a choice of Filet Mignon accented by Grilled Jumbo Shrimp or Broiled Norwegian Salmon dressed with Lemon Lime Herb Sauce; Duchess Potato, Steamed Vegetable Medley, and Flourless Chocolate Torte, as well as wine. (A vegetarian entrée of a Portabello Mushroom Tower on Linguine Pasta atop Red and Green Bell Peppers, Onions, and Fresh Spinach is available on request.)

To reserve your tickets, please fill out the attached reservation form and mail it with payment to the address below. Tables of 10 may be reserved. If you request seating for a group, please include a list of names of the people in your group. Tickets and nametags will be mailed to those whose orders are received by May 5. No refunds will be made after noon, on Tuesday, May 18, 2004.

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. Breslow's achievements in and contribution to the science of Chemistry.

Margaret Stowell Levenberg
Gibbs Arrangements Committee

2004 GIBBS DINNER RESERVATION FORM

Name _____ Affiliation _____

Address _____ Phone () _____

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dinners: Prime Beef _____ Grilled Salmon _____ Vegetarian _____

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

Note: Professors must make student reservations.

Total Enclosed \$ _____ Payable at time of reservation. Please include a list of your guests' names, affiliations and dinner selection with this form.

#dinners Filet Mignon with Grilled Jumbo Shrimp _____

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

**Return with payment to: American Chemical Society, Gibbs Reservations
7173 North Austin Ave., Niles, IL 60714**

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Mass-Vac, Inc.	6	978-667-2393	www.massvac.com
Axion Analytical Labs, Inc.	7	312-243-2153	www.ChromatographyTraining.com
Jordi Associates	7	508-966-1301	www.jordiassoc.com
Molecular Formulations, LLC	8	630-972-0514	www.molecularformulations.com
Desert Analytics	10	520-623-3381	www.desertanalytics.com

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CALENDAR

May 3-6, 2004: The 2004 International Powder and Bulk Solids Conference/Exhibition will be at the Donald E. Stephens Convention Center, Rosemont, Illinois. Contact Marilyn Kouba at (630) 893-4557 or mjkouba@msn.com if you would like to help at the Chicago Section ACS booth.

May 4-5, 2004: Human Error Prevention seminar in Chicago sponsored by High Technology Seminars. Go to <http://HighTechnologySeminars.com> or contact Ben Marguglio (845) 265-0123 or benjm@optonline.net.

May 10-14, 2004: Particle Isolation, Manipulation & Mounting Course taught by Anna Teetsov at McCrone College of Microscopy, Westmont, Illinois. For further information, contact: www.mccrone.com, courses@mccrone.com, (630) 887-7100.

May 13, 2004: The Chicago Section Women Chemists Committee is meeting at 5:30 p.m. in the conference room at TEI Analytical, 7177 N Austin, Niles. **See article in this issue.**

May 20-21, 2004: The Chemical Heritage Foundation will hold its Fourth Annual Leadership Initiative in Science Education, "Partners in Innovation: Science Education and the Science Workforce", at the Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, Pennsylvania. The conference is free, but space is limited. Register online by May 7 at www.chemheritage.org or contact Don McKinney at (215) 925-2178, ext. 320, donm@chemheritage.org.

May 21, 2004: Chicago Section, ACS Willard Gibbs Award Dinner and address by Prof. Ronald Breslow of Columbia University at North Shore Lights at Hotel Moraine, Highland, IL. **See reservation coupon in this issue.**

June 2-4, 2004: American Chemical Society's 36th Central Regional Meeting at Indiana University-Purdue University, Indianapolis, IN. Go to <http://membership.acs.org/C/Cerm2004/>.

June 25, 2004: Chicago Section ACS Education Night. Stay tune for more information as the date approaches.

July 18-22, 2004: 18th Biennial Conference on Chemical Education (BCCÉ). Contact Jodi Wesemann at j_wesemann@acs.org or (800) 227-5558, ext. 4587 for more information.

September 10, 2004: Chicago Section ACS Dinner Meeting.

September 28-30, 2004: The Plastics USA tradeshow of the Society of the Plastics Industry will be in Chicago, IL. For further information, call (800) 774-0015 or go to www.plasticsusa.org.

October 17-20, 2004: ACS 36th Great Lakes Regional Meeting, "Formulate Your Future" at the Pere Marquette, Peoria, IL. Go to <http://membership.acs.org/g/glrn04>.

October 22, 2004: The joint meeting of Northwestern University, Dept. of Chemistry and the Chicago Section ACS for the Basolo Medal Award lecture at Northwestern. More information as the date approaches.