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APRIL • 2007

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Monthly Meeting

FRIDAY, APRIL 13, 2007

(Note this is a Lunch Meeting)

Hackney's on Lake 1514 East Lake Street Glenview, IL 60025 847-724-7171

DIRECTIONS TO THE MEETING

From Chicago: Take I-94 (Edens) north toward Milwaukee. Exit at Lake Avenue going west to Hackney's which will be on your right. If you cross Waukegan Road you have gone too far.

From the Northern Suburbs: Take I-294 south to the Edens spur (I-94 east) and exit onto Waukegan road. Take Waukegan south to East Lake Avenue and turn left. Hackney's is on the left side of the street.

From the South and Western Suburbs: Take I-294 north to Dempster and exit eastbound. Take Dempster east to Waukegan Road and turn left. Continue north on Waukegan Road to East Lake Avenue and turn right. Hackney's is on the left side of the street.

PARKING: Free

JOB CLUB 10:30 A.M.

SOCIAL HOUR: 11:00 A.M.

LUNCH 12 NOON

Lunch reservations are required and should be received in the Section Office via **phone** (847-647-8405), **fax** (847-647-8364), **email** (chicagoacs@ameritech.net), or **online** (http://chicagoacs.org) by noon on Tuesday, April 10.

The lunch cost is \$20 to Section members

who have paid their local section dues, members' families, and visiting ACS members. The cost to members who HAVE NOT paid their local section dues and to non-Section members is \$22. The cost to students and unemployed members is \$10. Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

MENU: Entrée choices:

Fresh Stuffed Tomatoes with Crab Meat Served with home baked muffin and a cup of fresh fruit

Strawberry Spinach Salad with Chicken Breast

Crisp spinach leaves topped with fresh strawberries and tossed with chicken breast julienne and roasted pine nuts served with poppy seed dressing

<u>Grilled Fresh Asparagus and other Vegetables over Penne Pasta</u>

Grilled fresh asparagus and other vegetables served over a bed of seasoned penne pasta served with garlic bread and parmesan cheese

All of the above entrees include unlimited soft drinks and coffee, and a chocolate sundae for dessert

NOTICE TO ILLINOIS TEACHERS

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

GENERAL MEETING 1:00 P.M.

Presentation of the 50-YEAR AWARDS The Chicago Section honors our fiftyyears members. (See page 2)

Presentation of the 2007 DISTIN-GUISHED SERVICE AWARD to Barbara Moriarty and to Louis Lerner (see page 2)

GENERAL MEETING SPEAKER



Dr. Gabriela C. Weaver, Associate Professor of Chemistry, Purdue University, West Lafayette, IN

Topic: "Authentic Research Experiences for the Undergraduate Chemistry Curriculum"

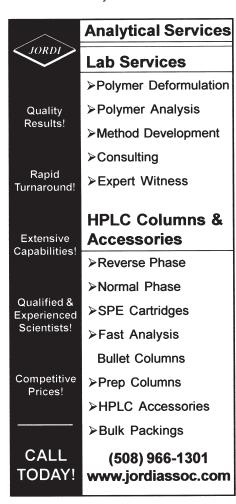
Abstract: Research experiences can often be inspiring and life-changing for young college students. It is possible that research experiences are pivotal in making decisions about college majors and careers. We have started to implement research as part of the regular curriculum for first and second year students in chemistry at a variety of institutions. In this presentation, I will discuss the structure of the Center for

(continued on page 2)

(continued from page 1)

Authentic Science Practice in Education (CASPiE) project and describe our progress towards providing research experiences to early undergraduates as part of their regular curriculum. The center utilizes authentic research projects, a remote-access network of chemical instruments, the peer-led team learning (PLTL) model, and the mainstream laboratory course for giving students a research experience.

Biography: Gabriela Weaver received a B.S. from Caltech in 1989 and a Ph.D. in Chemical Physics from the University of Colorado at Boulder in 1994. After obtaining her Ph.D., she was an Assistant Professor of Chemistry from 1994 to 2001 at the University of Colorado at Denver. She has been an Associate Professor of Physical Chemistry and Chemical Education at Purdue University since 2001.



POP TOP RINGS COLLECTION

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

JOB CLUB

The next meeting of the Chicago Section ACS Job Club will be held on Friday, April 13 at 10:30 a.m. at Hackney's on Lake. 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 \$10 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

Also, the Chicago Section's website has a link to the Job Club's yahoo job forum group. If you can't attend the Job Club, you can still find out about job openings and other information.

DEADLINES FOR CHEMICAL BULLETIN CHB 7 APRIL

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.

2007 Issue	Deadline
June September October November December	April 27 July 13 August 24 September 21 October 12

CONGRATULATIONS TO OUR 50-YEAR ACS MEMBERS!

As part of our April 13 lunch meeting program, we will honor our section members who have been ACS members for 50 years. In late February, a special ruby pin and a 50-year membership card, which entitles them to free attendance at all ACS meetings, was sent to them from the ACS National office in grateful appreciation of their many years of service to the Society.

At our meeting, each of them will be presented a handsome 50-year membership certificate to mark the occasion. Maybe you know or have worked with some members of this elite group. Take this opportunity to get together with your former colleagues for a nice lunch and an interesting presentation at our April meeting. We hope to see many of you there!

FREE T-SHIRTS

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

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"CHEM SHORTS" For Kids

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

Reaction Rates

Kids, do you think that temperature will have an affect on how fast or slow a reaction might take place? In order for a chemical reaction to occur, the molecules, which are REACTANTS, must physically come into contact with one another. Anything that increases the frequency of these encounters will increase the rate at which PRODUCTS are formed. Your hypothesis can be that the rate of a chemical reaction will be increased by raising the temperature of reactants.

You will need: 6 clear cups, a measuring cup, a thermometer (-20°C to 110°C), 3 original formula effervescent Alka-Seltzer tablets, a stopwatch, a mortar and pestle, a source of hot water, ice cubes, and graph paper.

<u>Procedure</u>. Run water from the hot tap until it is as hot as possible. Fill a clear glass with exactly 8 oz. of hot water. Use the thermometer to take the temperature and record it on a data sheet. Drop 1 Alka-Seltzer tablet into water. Measure the time required for the tablet to fully dissolve. Be prepared to start and stop on time. The reaction will take less than 15 seconds. Record the time. Repeat this experiment using room temperature water.

For the cold water test, the procedure is a little different. Fill a clear glass with 4 oz. of water and add enough ice to adjust the level to 8 oz. Stir the ice water for about 15 seconds so the temperature will come to equilibrium. Use the thermometer to take the temperature and record it on your data sheet. (Leave the ice cubes in the water!) Drop 1 Alka-Seltzer tablet into the water. Measure and record the time required for the reaction to be completed.

<u>Analysis.</u> Graph your data points (water temperature vs. time to fully dissolve) to show the effect of temperature on Rate of Reaction.

So now can you answer this question? As the temperature increases, the rate

of reaction increases, decreases, or stays the same? How about these more advanced questions?

- At a temperature of 10 degrees C, it would take _____ seconds for 1 Alka-Seltzer tablet to react with 8 oz. of water.
- If the temperature is doubled from 20 degrees C to 40 degrees C, the time for the rate of reaction _____by approximately _____.
- Using hot tap water, the rate was
 ____ times faster than at 0
 degrees C.

References:

http://www.alka-seltzer.com/asp/student_experiments_1.html

Edited by K. A. Carrado, Argonne National Laboratory

All past "ChemShorts": http://membership.acs.org/C/Chicago/ChmShort/ki dindex.html.

REGISTER TO ATTEND MONTHLY SECTION MEETINGS

ON LINE

at www.ChicagoACS.org

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Northuprts@aol.com www.toxconsultants.com April, 2007 Vol. 94, No. 4. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor; Fran Kravitz, Associate Editor; Fadwa Al-Taher and Richard Treptow, Proofreaders; Frank Jarzembowski, Publications Business Manager. Address: 7173 North Austin, Niles, Illinois 60714; 847/647-8405. Subscription rates: \$15 per year. Frequency: monthly-September through June.

Note: The date for the Gibbs Award Banquet has been changed to Friday, May 25, 2007. See reservation form on page 11.

MESSAGE FROM THE CHAIR

By the time you read this, the ACS Chicago National Meeting will be part of the Chicago Section's history. I want to thank all of the Chicago Section members and their families who volunteered to support our section's activities. Your efforts were a major factor in the success of the meeting. At our April 13 section meeting (a lunch meeting), we will present our Distinguished Service Award and honor our 50-year members. Barb Moriarty is this year's Distinguished Service Award recipient. Barb has served the section in many capacities over several years and deserves our thanks and congratulations. We will also honor Louis Lerner posthumously with a Distinguished Service Award at the April meeting. Our May meeting will be the Gibbs Award Dinner on Friday, May 25. The 2007 Gibbs Medal Award recipient is Professor Sylvia T. Cever from MIT. Her research involves the dynamics of the interactions of molecules with material surfaces. An exciting and dynamic lecturer, Professor Cever has been formally recognized for her legendary ability to communicate, motivate, and clarify. We look forward to her award address in May. The Gibbs Medal Award Dinner is the highlight of the technical presentations at our section meetings. Please consider joining us for this prestigious event. Check the section website for details on these events and other section activities.

KEN FIVIZZANI

DEATH NOTICE

A number of the section members remember Charles Bruce Petty, who passed away January 27, 2007 at the age of 54 after a courageous battle against colon cancer. Bruce was an active member of the section for several years. A graduate of the University of California-Santa Cruz, Bruce completed his Ph.D. in chemistry at the University of California-Irvine. He had achieved a 26-year career at BP Amoco Chemicals and Innovene spanning various technology and commercial roles and was active in the chemical industry. He is survived by his wife Pamela, mother, parents-in-law, brothers, sisters, nieces, and nephews. Memorials will be appreciated for the Morton Arboretum, 4100 IL Rt. 53, Lisle, IL 60532.

DEATH NOTICE

Dr. Frank Albert Cotton, Willard Gibbs Medalist for 1980, passed away February 20, 2007. Donations may be made to the F. A. Cotton Endowed Memorial Graduate Travel Award in care of the Texas A&M Foundation, 401 George Bush Drive, College Station, Texas 77840-2811.



IN MEMORY

With sadness, we report the death of **Dr. Fred Basolo**, Professor Emeritus, Northwestern University. Fred passed away February 27, 2007 of natural causes. Fred had celebrated his 87th birthday with his family that month.

Fred was born in 1920 in Coello, Illinois. He graduated from Southern Illinois University in 1940 with a B.Ed. He received an M.S. in 1942 and a Ph.D. in 1943 in Chemistry from the University of Illinois. After graduation, he went to work for Rohm and Haas until 1946.

Fred arrived at Northwestern University in 1946, joining the faculty as a Chemistry Instructor. He rose through the ranks to become a Professor of Inorganic Chemistry, Department Chairman, and finally Morrison Professor in 1980. He was able to help make the Department of Chemistry at Northwestern one of the very best in inorganic chemistry in the United States; a position it still maintains today.

According to Dr. Thomas O'Halloran, Chair of the Department of Chemistry at Northwestern, Fred may have set a record for the longest time on the Northwestern faculty -- over 60 years! "Fred had a major impact on the Northwestern chemistry department, on Chemistry as a profession, and on the ACS; but more viscerally on so many lives, both locally through his warm mentorship and globally through his leadership in the international science community. Fred will be remembered as one of Chemistry's great champions", states O'Halloran.

Among his many awards and honors were the 1972 Bailar Medal Award, 1979 Member of the National Academy of Sciences, 1983 Fellow of the American Academy of Arts and Sciences, 1987 Foreign Member of Academia Nazionale dei Licei, ACS 1992 George C. Pimental Award in Chemical Education, 1996 Chicago Section Willard Gibbs Medal, and ACS 2001 Priestly Medal. Fred was the ACS President in 1963. He also served on many editorial boards of prestigious journals and on many research committees and panels.

Fred shared his personal and professional odyssey in his autobiography entitled, "From Coello to Inorganic Chemistry: A Lifetime of Reactions", in which he introduced us to the world of inorganic coordination chemistry through his experiences in teaching and research and recounted his childhood, family life, and career experiences that showed his personable and humorous side to which people who knew him testify.

Memorials may be made to Midwest Palliative and Hospice Care Center, 2050 Claire Ct., Glenview, IL 60025 or to the American Heart Association.

His son-in-law has set up a website celebrating Fred's amazing career, http://www.fredbasolo.com/.

CHERLYN BRADLEY

ALMA E-NEWS

Hydrogen Carrier Gas for GC

I have mentioned this topic in the past but thought I'd share it again since it can mean real cost savings for some of you. Years ago, my colleagues at DuPont and Arco mentioned that they had switched most of their gas chromatographs to hydrogen carrier gas. I was surprised since I always thought that there were significant safety issues associated with this type of operation. On further investigation, I became more comfortable with the idea and switched the chromatographs in my lab to this type of operation. I purchased a hydrogen generator and a pure air generator for relatively low cost and managed to nearly eliminate helium usage and pure air cylinders. This substantially reduced gas costs and, as a secondary benefit. shortened analysis times. If you can satisfy yourself on the safety aspects, the economic argument for hydrogen carrier gas is strong.

Also related to gas chromatography, one of our ALMA members passed along another cost savings tip for those of you who use an electron capture detector (ECD). He stated that Hewlett-Packard ECDs are usually returned to the vendor to be refurbished by replacing the anode at a substantial cost. He has had good success with third party vendors that are licensed disassemblers who just clean the ECD at a much lower cost. He also found that his Perkin-Elmer Autosystem ECDs could be disassembled and cleaned in-house. If you have any comments, cost saving suggestions, or opinions, contact me at the email address below.

Past ALMA (Analytical Laboratory Managers Association) e-News articles by Dr. Wayne Collins, a former ALMA President, are available at the website http://www.labmanagers.org/. This article is from the March 2000 edition.

WAYNE COLLINS wayne.collins@thermo.com

BARBARA MORIARTY RECEIVES THE DISTINGUISHED SERVICE AWARD

The 2007 Distinguished Service Award will be presented to **Dr. Barbara Moriarty** at the April 13 Chicago Section's luncheon meeting.

The Distinguished Service Award was established in 1974 at the suggestion of Louis L. Lerner, who was consulting editor of The Chemical Bulletin at that time. It was established to recognize members of the Chicago Section ACS who have provided outstanding and devoted service to the Section.

Barbara has been active in leadership roles in the Chicago Section and participated on many challenging committees over the last two decades. She is well known and recognized by her colleagues for excellent management of Chicago ACS meetings, keeping them focused on achieving the desired goals.

She served our membership as Chair of the Chicago Section in 1997-98 and 2006. She was a director in 1999-2003. These elected offices were complemented with terms as Vice-Chair in 1995-96 and 2005 along with two terms as Secretary in 1993-95. She was editor of the Chemical Bulletin in 1999-2000. In addition, she has volunteered and contributed leadership to the Chemistry Week, Elementary Education, Employment, Long-range Planning, Membership Affairs, Nominating, Women Chemists and Public Affairs committees. She received her Ph.D. degree in chemistry from the University of Minnesota and a B.S. degree from the University of North Carolina in Chapel Hill. She has been employed by Nalco Company, Naperville, IL since 1986 as both a research chemist and a manager.

Please join us on April 13 as we honor Barb with the 2007 Distinguished Service Award for meritorious service to the Chicago Section.

DID YOU KNOW?

The ACS Education Division provides programs and activities that promote lifelong chemistry education, professional activities, and scientific matters of interest to chemists and chemical engineers worldwide.

To find out more about ACS Education programs, visit the *ChemunityNews* FAQs, or write to us at education@acs.org.

THE DISTINGUISHED SERVICE AWARD TO LOUIS LERNER POSTHUMOUSLY

For his for meritorious service to the Chicago Section, The Distinguished Service Award will also be given this year to **Louis Lerner** posthumously at the April 13 lunch meeting.

Lou, a 50-year member of the ACS, died August 19, 2006 at the age of 911/2. Lou served as editor of The Chemical Bulletin from 1966 through 1970, consulting editor from 1971 through 1976, and again as editor in 1991. Among his many contributions to the Chicago Section ACS, Lou established the Distinguished Service Award (DSA), because he always appreciated the efforts of unsung volunteers who carry out the usually thankless job of running an organization, and he felt keenly that some tangible form of appreciation was warranted. He served on the DSA Committee from 1973-78 as well as a host of other section committees through the years.

Let's honor the memory of Lou at the April 13 lunch meeting.

2007 SCIENCE HISTORY TOUR TO SCANDINAVIA

Registration for the Science History Tours' 10th anniversary trip to Scandinavia is now open. The trip, organized by the University of Illinois at Chicago Chemistry Professor Lee Marek, begins at noon on Wednesday, June 20 in the German town of Lübeck on the Baltic Sea and ends in Uppsala, Sweden, on Wednesday, July 4.

This year marks the 300th anniversary of the birth of Linnaeus. This has inspired the philosophical theme of the 2007 trip -- an exploration of "Natural Kinds" and the ways in which objects can be classified. All the details are available at http://www.chem.uic.edu/marek/trips/history_trip.htm.

ILLINOIS STATE FAIR VOLUNTEERS NEEDED!

The Chicago Section, along with the other Illinois Sections of the ACS, is planning to again help host a cooperative tent at the Illinois State Fair this summer. The Illinois State Fair is from August 10-19, 2007 in Springfield, IL. Our joint-sections' tent activities provide information to the public on chemistry by way of demos, hand-on activities, literature, and give-aways and give us a chance to show the positive aspects of chemistry to many Illinois citizens and governmental leaders. Last year, over 13,000 people visited our tent!

We are looking for volunteers to help during the fair and also to help in planning this year's project. If you are interested in helping for a few hours during the State Fair in August (you do get free admission and parking), helping on the planning committee, or if you think your company may be able to give a much-needed donation (monetary or in supplies) -- 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

Successful Women in Chemistry Book

If you do not have your copy of the ACS National's Women Chemists Committee (WCC) book "Successful Women in Chemistry: Corporate America's Contribution to Science," it is not too late to order this ACS symposium series, which highlights the careers of some of today's successful women in the scientific field. To order your book, call the Oxford University Press at 1-800-451-7556 for information. Please be sure to reference the ISBN number 0-8412-3912-6.



BOOK REVIEW

"Nontraditional Careers for Chemists: New Formulas in Chemistry" by Lisa M. Balbes

When I completed my degree in Chemistry, it never occurred to me that I might use my degree for something besides doing research in chemistry. Luckily for me, I still love to be in the lab, doing experiments. However, how many times have we heard or felt that someone (including ourselves) didn't want to be involved with the lab. This book may be for them.

The book presents possible careers for those of us with chemistry degrees that want to be working outside the lab. The author points out that an interest and education in chemistry opens up a world of professional possibilities, including scientific editor, patent attorney, patent agent, information scientist, technical service representative, marketing, regulatory scientist, science advisor, and safety officer, to name a few. Each chapter is divided into an introduction, followed by some profiles of individuals that actually do the job. Each chapter ends with additional resources.

I think that the most valuable part of this book is the individual profiles. The individual profiles are divided into sections describing what the job is like, the individual's career path, advise and thoughts on the future. The individual profiles are especially valuable since interested readers can follow up with specific questions with individuals like those profiled in the book to find out about what the job is really like. Note however, that these profiles are example. The situations that we find ourselves in may be different. One piece of advice that is repeated often by the individuals being profiled is that you should learn as much as possible and do not become too narrow in our knowledge.

The other aspect I found of interest is that most of the individuals profiled indicated that good communication and interpersonal skills were important in their jobs. In my opinion this is true of all jobs, not just the non-traditional careers focused on in this book.

BARBARA MORIARTY

The Chicago Section's
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Governors State University

Offering Degree Programs in

B.S. Chemistry
M.S. Analytical Chemistry

B.S. Chemistry - This ACS certified degree provides graduates with a strong background in the basic concepts of analytical, biochemical, inorganic, organic, and physical chemistry. Small lecture classes (about 20 or less) offer personal attention from Ph.D. faculty. Laboratory courses, also taught by GSU faculty, provide hands-on experience with modern scientific instruments. The program provides necessary preparation for graduate work at the M.S. or Ph.D. level in chemistry.

GSU also offers a chemistry minor and a degree in Chemistry with Secondary Teacher Education Sequence, which is approved by the Illinois State Board of Education and leads to the Initial High School Certificate qualifying students to teach chemistry.

M.S. Analytical Chemistry - This degree builds upon an undergraduate background in chemistry or related fields, providing a theoretical base in analytical chemistry while emphasizing practical experience with analytical instrumentation. The degree features hands-on experience with state-of-the-art instruments including FT-NMR, FT-IR, GC-MS, LC-MS, Ion Chromatography, AA, and Cyclic Voltammetry.

Offered in the evenings, GSU's chemistry courses are convenient, accessible, and affordable. Governors State University is located in University Park, a south suburb of Chicago (the last stop on the Metra electric line.)

For further information, contact:

Dr. Joyce Mohberg, academic advisor
708.534.4534 j-mohberg@govst.edu
Chemistry Program, Governors State University
1 University Parkway, University Park, IL 60466

Governors State University www.govst.edu

DCHAS SPEAKERS BUREAU LAUNCHED!

The Division of Chemical Health and Safety (DCHAS) of the American Chemical Society (ACS) has created the DCHAS Speakers Bureau. The goal of the DCHAS Speakers Bureau is to enhance public awareness of chemical health & safety by providing professional, qualified speakers for presentations on CH&S topics of interest to the scientific community.

Organizations interested in having presentations by DCHAS speakers should review information about topics and speakers available on the Division's website — http://membership.acs.org/c/chas/. For more information, contact the committee chair, Jim Kaufman, at jimkaufman@lab safety.org.

The Speakers Bureau is made possible in part by an Innovative Project Fund Grant for Divisional Enhancement. The grant is provided by from the ACS Council Committee on Divisional Activities. Funds from the grant will help support speaker travel expenses.

ATTENTION HIGH SCHOOL TEACHERS: SUBSCRIBE TO CHEMMATTERS!

Renew or begin your subscription to ChemMatters, the ACS magazine for high school chemistry students! A one-year subscription to ChemMatters is \$14.00. Buy 5 or more subscriptions and the cost is \$7.00 per subscription. Multi-year discounts are also available. Each one year subscription includes 4 issues of the magazine.

ChemMatters is an award-winning quarterly magazine for high school chemistry students. Each issue includes articles which reveal chemistry at work in everyday life.

ChemMatters was designed for teachers to use as a supplement to their first year high school chemistry course. A free teacher's guide is available online which provides additional information on articles, follow-up hands-on activities, classroom demonstrations, and additional resources.

See http://www.chemistry.org/education/chemmatters.html.

ACS DIRECTORY OF GRADUATE RESEARCH

Choosing a graduate school? Need to know who is doing research critical to yours?

Consult the **DGRweb**, which is the searchable, online version of the ACS Directory of Graduate Research (DGR), now available free of charge at http://chemistry.org/education/DGR-web.

The ACS Directory of Graduate Research is the most comprehensive source of information on chemical research and researchers at universities in the U.S. and Canada. Using this online directory, one may search for both faculty and institutions. Search for faculty includes specific research area, academic rank, gender, and state, and the search results produce complete contact information for faculty including direct links to faculty email addresses and web pages. Institutional searches provide all departmental contact information along with statistical data on the number of faculty and students in the department and a complete list of faculty active in graduate research. DGRweb 2005 also includes access to the complete 1999, 2001, and 2003 databases.

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CHICAGO SECTION COMMITTEE MEMBERS, 2006

The many programs and services of your Section are provided by the volunteers of the various committees of the Section. Each year we acknowledge the members of the Section's Standing, Board-appointed, and Ad hoc committees. Thanks to all of you who volunteered your time and talents during the 2006 term.

AWARDS

Fran Clifton, Chair

BUDGET

Fran Kravitz, Budget Director

BYLAWS

Russ Johnson, Chair

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

WILL YOU BE STARTING TO SEARCH FOR A FACULTY POSITION?

Start planning now to present an ACS Academic Employment Initiative (AEI) Poster at SciMix at the Boston ACS National Meeting (Fall 2007). Faculty recruiters from a variety of colleges and universities will be there to meet poster presenters. Give a poster and have job interviews at the same time. Submissions of abstracts to Online Abstract Submittal System (OASYS) began in March.

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LEGISLATION TO STRENGTHEN HIGH SCHOOL LABS

A year ago, Representative Ruben Hinojosa (D-TX) introduced the Partnerships for Access to Laboratory Science Act (PALS), a bill designed to leverage federal, state, local, and private resources to re-invigorate high school laboratories in high-need and rural school districts. This will be done through grants awarded competitively by the National Science Foundation.

ACS worked closely with Representative Hinojosa during the development of the legislation to address factors such as safety and integration of laboratory experiences with other elements in the science curriculum. Grants proposed under the bill would be used to improve the teaching of science through the integration of hands-on learning into science education programs at high school laboratories as part of a comprehensive plan to improve the quality of science instruction and student learning outcomes.

Current co-sponsors for the legislation include Representatives Silvestre Reyes (D-TX), Solomon Ortiz (D-TX), and Sander Levin (D-MI). Other cosponsors were slated to be formally added to the list when Congress reconvened after its spring recess.

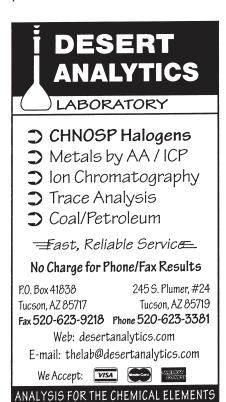
Hinojosa commented, "We must produce more scientists, engineers and technicians to protect the nation and promote prosperity. Unfortunately, our fastest growing pool of future scientists and engineers are attending schools that are not providing them the handson, inquiry-based scientific experience they need to pursue these critical fields."

Key elements of the legislation:

- Authorizes \$50 million annually for this program at NSF
- Designates eligible partners for grants as: a local educational agency, a business or non-profit organization; an institution of higher learning; and may include a State educational agency, a National Laboratory, or community-based organization for the development of school science laboratories
- Applicants must demonstrate how the proposed program would be consistent with current state educational standards, promote specific educational outcomes, complement classroom science instruction, integrate science learning with science content, incorporate ongoing student reflection and discussion, and provide for professional and safety training of personnel.

- Proposals must include a mechanism for program assessment and material dissemination to further educational research goals.
- Priority for awards given to projects targeted at high-need communities

Please go to the Legislative Action Center at http://www.chemistry.org/government/lac and encourage your Representative to become a cosponsor PALS.



Chicago Chromatography Discussion Group

44th Annual Introductory Course in Gas Chromatography

April 30 - May 3, 2007

Roosevelt University, Schaumburg, IL



Please call (847) 647-0157 for an application. Deadline for applications is April 23, 2007.

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

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 4,600 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

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AMERICAN CHEMICAL SOCIETY CHICAGO SECTION 2007 WILLARD GIBBS MEDAL AWARD PRESENTATION FRIDAY, MAY 25, 2007



You and your guest(s) are cordially invited to attend the 96th presentation of the Josiah Willard Gibbs medal to Professor Sylvia T. Ceyer, J. C. Sheehan Professor of Chemistry, Massachusetts Institute of Technology, on Friday, May 25, at The Arboretum Club, 401 Half Day Road, (Route 22 and Buffalo Grove Road), Buffalo Grove, IL 60089. A social hour begins at 6 PM. Dinner is served at 7 PM. Dr. Ceyer's talk will begin at approximately 8:30 pm.

After a social hour with Hors-d'oeuvres and both Champagne Punch and Non-alcoholic Punch, dinner on this special occasion includes Caesar Salad; a choice of Pecan Asiago Chicken with Garlic Mashed Potatoes, Hazelnut Crusted Grouper with Wild Rice Pilaf, or Butternut Squash Ravioli Tossed in Garlic Cream Sauce; and Flourless Chocolate Cake, as well as Wine.

To reserve your tickets, please call the Chicago Section office at 847-647-8405 or register at http://ChicagoACS.org by Friday, May 18 and pay \$45 at the door, or fill out the attached reservation form and mail it with your payment of \$45 by Friday, May 11 to the address below. If you have not paid dues to the Local Chicago Section (\$15 per year), the price is \$47. 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 and their meal choices. Tickets and nametags will be available at the door. No refunds will be made after noon, on Friday, May 18, 2007.

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

2007 GIBBS D	INNER RESERVATION FORM				
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Return with payment to: American Chemical Society, Gibbs Reservations 7173 North Austin Ave., Niles, IL 60714

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CHICAGO SECTION, AMERICAN CHEMICAL SOCIETY THE CHEMICAL BULLETIN 7173 NORTH AUSTIN NILES, ILLINOIS 60714 CALENDAR

April 13: Chicago Section's monthly meeting. Gabriela Weaver, Purdue University, is the speaker. **See information in this issue.**

April 22: Chemists Celebrate Earth Day - The theme is "Recycling – Chemistry Can".

April 23-27: Forensic Microscopy course, McCrone Research Institute, 2820 S. Michigan Ave., Chicago. Courses will also be held June 11-15, August 13-17, October 15-19, and December 3-7. Go to **www.mcri.org** for more information or call (312) 842-7100.

May 25: Chicago Section's Willard Gibbs Medal Award Presentation and Banquet at The Arboretum Club, 401 Half Day Road, Buffalo Grove, IL. The medalist is Professor Sylvia T. Ceyer, MIT.

June 21: Chicago Section's monthly dinner meeting held jointly with YCC. Note that this meeting is on a Thursday. Ruth Ann Armitage, Eastern Michigan University, is the after-dinner speaker.

July 9-13: 59th Annual Inter/Micro 2007 Conference hosted by McCrone Research Institute and dedicated to applied microscopy, The Millennium Knickerbocker Hotel, 163 East Walton Place, Chicago, IL. Go to www.mcri.org for complete information or contact Lauren Newbrough by e-mail (intermicro@mcri.org) or phone (312) 842-7100.

August 10-19: ACS Illinois Sections' cooperative tent project at the Illinois State Fair. For further information on this activity, contact the section office at (847) 647-8405.

September 28: Chicago Section's dinner meeting at Loyola University. Roald Hoffmann, Cornell University, is the after-dinner speaker.

October 5: Microchemical Methods course, McCrone Research Institute, 2820 S. Michigan Ave., Chicago. Go to **www.mcri.org** for more information or call (312) 842-7100.

October 19: Basolo Medal Award joint dinner meeting of the Chicago Section ACS and Northwestern University.

October 21-27: National Chemistry Week's 20th anniversary. The theme is "The Many Faces of Chemistry".

November 16: Chicago Section's Education Night dinner meeting. Zafra Lerman, Columbia College Chicago, is the after-dinner speaker.

December 7: Chicago Section's Holiday Party and dinner meeting at the Willowbrook Holiday Inn. Peter Ludovice, Georgia Tech, is the after-dinner speaker.

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