

theCHEMICALbulletin

<http://chicagoacs.org>

OCTOBER • 2004

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY Joint Meeting of Northwestern University Department of Chemistry and the Chicago Section ACS

Basolo Medal Award Lecture, Dinner and Presentation

FRIDAY, OCTOBER 22, 2004

Basolo Medal Lecture
Northwestern University
Technological Institute
2145 Sheridan Road
Evanston, IL
Lecture Room 3

DIRECTIONS TO THE TECH INSTITUTE:

From the city: Take Lake Shore Drive North to Sheridan Road into Evanston. Continue on Sheridan Road to the Tech Institute. **From the west:** Take I-88 east to 294 north to Dempster east. Proceed east on Dempster into Evanston. Turn left onto Chicago Ave. and proceed to Sheridan Road. Take Sheridan Road north to the Tech Institute. The Technological Institute is at the intersection of Sheridan Road and Noyes Street in Evanston.

To those attending the Basolo Medal lecture, parking after 4:00 p.m. is available in the lot across from the Technological Institute at the corner of Noyes Street and Sheridan Road. Parking is also available on the side streets just west of this lot—however, observe the posted signs.

Lecture room 3 is on the first floor of the Technological Institute. Enter through the main doors facing Sheridan Road. There will be signs at the entrance to guide you to the room.

Basolo Medal Lecture: 4:30 P.M.
The Medalist Lecture is open to the public and admission is free to all those wishing to attend.

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

DIRECTIONS TO THE RESTAURANT:

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

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

(FOR DETAILED MAP, SEE SECTION WEBSITE)

PARKING: Free in the lot. Additional parking at Keeler & Gross Point Rd.

JOB CLUB will meet at Zhivago at 5:30 P.M. (See Page 2)

RECEPTION: 6:00 P.M.

Complementary wine, soft drinks, and hors d'oeuvres served butler style. Hors d'oeuvres selection: Artichoke & Spinach, Smoked Salmon, & BBQ Meat Balls

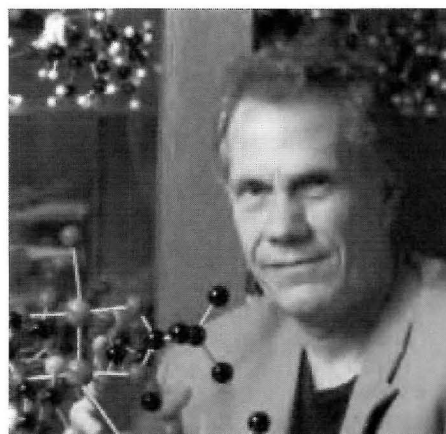
DINNER: 7:00 P.M.

Dinner reservations are required and should be received in the Section Office via **phone** (847-647-8405), **fax** (847-647-8364), **website** (<http://chicagoacs.org>), or **email** to chicagoacs@ameritech.net by noon on Tuesday October 19.

The dinner cost is \$32.00. The cost to students and unemployed members is \$16.00. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

Menu: (See Page 2)

2004 Fred Basolo Medalist



Dr. Malcolm H. Chisholm, Distinguished Professor of Mathematical and Physical Sciences, The Ohio State University

Title: "Routes to New Generation Polymers Employing Single-site Metal Alkoxide Catalysts, Polyesters, Polyethers and Polycarbonates from Renewable Resources"

Abstract: The limited world supply of oil and the ever-increasing demand for its consumption will profoundly affect mankind in many ways. Currently, greater than 90% of all commodity

(continued on page 2)

NOTICE TO ILLINOIS TEACHERS

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

(continued from page 1)

chemicals are fossil-fuel based. We can anticipate a move away from a hydrocarbon-based chemical industry towards one based on renewable resources. In terms of plastics or synthetic polymers, we will see a move toward polyoxygenates. Polyesters can be prepared from the ring-opening polymerization of cyclic esters derived from biomass, and polyethers by the ring-opening polymerization of Natures's oxiranes. The current production of polycarbonate by the toxic and environmentally-hazardous use of phosgene and bis-phenol-A will surely be replaced by a process involving the regular alternating coupling of an oxirane and carbon dioxide. In all these endeavors, metal-oxygen bonds will play a key role. In this talk, I will review current research endeavors aimed at the preparation of polyesters, polyethers and polycarbonates employing single-site metal alkoxide catalysts of zinc, magnesium, calcium, aluminum and tin.

Biography: Malcolm H. Chisholm was born in Bombay, India to Scottish parents and educated in England, Canford School and Queen Mary College, London. He received his PhD. in 1969 under the direction of Professor D.C. Bradley and did postdoctoral studies at the University of Western Ontario with Professor H.C. Clark.

After academic appointments at Princeton and Indiana University, he assumed his current position at The Ohio State University in 2000 where he is Distinguished Professor of Mathematical and Physical Sciences. His research interests include the chemistry of complexes with metal-metal multiple bonds, the use of alkoxide and related pi-donor ligands in organometallic chemistry, and molecular routes to materials and the development of catalysts and for the preparation of biodegradable and biocompatible polymers from readily renewable resources.

Professor Chisholm is the author of over 500 publications and has received several awards for his research including the Awards for Inorganic Chemistry and Distinguished Service to Inorganic Chemistry of the ACS and the Centenary and Ludwig Mond Lectureships of the Royal Society of Chemistry. He is a Fellow of the Royal Society, London, American Academy of Arts & Sciences, and the recipient of the Davy Medal of the Royal Society. He has served as Associate Editor for the *Americas for Chemical Communications*, *Dalton Transactions*, the inorganic journal *Polyhedron* and has held several positions of office within the ACS, including Chair

of the Division of Inorganic Chemistry.

General Meeting: 8:00 P.M.

Presentation of the Basolo Medal and remarks: Milt Levenberg, Chair, Chicago Section American Chemical Society; Hilary Arnold Godwin, Chair, Chemistry Dept., Northwestern University; Malcolm H. Chisholm, Distinguished Professor of Mathematical and Physical Sciences, The Ohio State University, 2004 Basolo Medalist for Outstanding Research in Inorganic Chemistry.

DINNER MENU:

APPETIZER COURSE - SERVED

FAMILY STYLE: Breads, Herbed Butter, Chopped Liver, Fresh Tomato & Mozarella Salad, Fire Cracker Meat Rolls with Asian Sauce, Calamari & Fresh Vegetables.

SOUP COURSE: Cream of Mushroom

DINNER COURSE: Choice of entrée is either Chicken Florentine (chicken breast served on a bed of spinach), Salmon (broiled salmon on a bed of spinach with Sonoma Curtier Russian river sauce), or Beef Brochette: (skewered beef tenderloin filet prepared in house marinade and grilled with an array of vegetables). Each entrée is served with rice pilaf, fresh vegetables, & potatoes. A vegetarian bowtie pasta entrée is available on request.

DESSERT COURSE — (FAMILY

STYLE): Assorted pastries including Napoleon, Tiramisu, and Spartak Chocolate Cake.

FRUIT COURSE — (FAMILY STYLE)

BEVERAGE: Coffee, Tea, Soft Drinks; Wine will be served with dinner.

NATIONAL HISTORIC CHEMICAL LANDMARK

You may recall that **Gerty Cori** was featured in last month's WCC column. We are pleased to report that the American Chemical Society designated the research of Carl and Gerty Cori on carbohydrate metabolism as a National Historic Chemical Landmark in a celebration held September 21 in St. Louis. The work of the Coris advanced understanding of metabolic regulation. Building on their work, other researchers have developed improved techniques to control diabetes. The Coris were awarded a Nobel Prize in 1947.

JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on Friday, October 22 at the **Zhivago Restaurant at 5:30 p.m.** The meeting will include a review and discussion of some of the fundamental 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 what kind of job you are looking for.

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group actually 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 meeting following the Job Club, the cost for unemployed members is only \$16 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

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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.

Parts Per Million Lab

Kids, have you ever heard the term "ppm" or parts per million? Sometimes a scientist will have to discuss what is in water or air at very low levels, and they use the term ppm because the amounts are so small. Even parts per billion (ppb) is used sometimes. One ppm means that one part of something exists in one million parts of the liquid, gas, or solid that it is found in. But just because these numbers sound so small does not mean that they are not important. For example, a fish (such as bass) needs at least 4 ppm dissolved oxygen in their water, and the air quality standard for sulfur dioxide (SO₂, a pollutant) is 30 ppb. Chemists can detect to even parts per trillion levels for some materials using the right instrumentation.

This column will make use of more typical laboratory equipment than we usually require, but if you can convert the units from milliliter (ml) to ounces then you should be able to use common kitchen measuring tools as well. We are going to make a series of solutions of progressively higher dilution, and then test for the presence of a substance. This will demonstrate that something can be present at ppm levels even though we cannot see them with our eyes. You will need 8 small clear containers, milk, a small flashlight or laser pointer, a dark surface, and 100-ml and 10-ml graduated cylinders.

Measure and pour 100 ml milk into one of the containers, and do the same for pure water into another container. Mark these as #1 and #2, which is 1/1 or one part per one. Then measure 90 ml of water into each of the other six containers, marking them as #3-8. Pour 10 ml of milk from #1 (using the smaller graduated cylinder) into container #3. This concentration is 1/10, or one part per ten. Continue this serial dilution taking 10 ml from #3 and adding it to #4, and so on. They will progressively decrease in concentration as 1/100, 1/1000, 1/10,000, 1/100,000, and 1/1,000,000 (one ppm). What do you observe? Now place them on a dark tabletop and turn off the lights. Shine a flashlight through the side of the container and through the liquid. (Alter-

natively, have an adult partner use a laser pointer. But take care never to shine this in anyone's eyes, including your own.

Look down on top of the liquid surface from above. What do you observe? It is hard to see any light pass through the pure milk because it is so thick. Next shine the light through the container of pure water, look down, and you shouldn't see anything except the light on the other side. Containers 3-8 are another story, however. Shining the light through them at the side and looking over the top, you should see the beam of light right in the liquid as it passes through. Even though the last three containers (#6-8) look clear to the eye, there is enough milk present to scatter the light, albeit more weakly as the solutions get more dilute. The light is visible here due to what is called the Tyndall effect, a light scattering phenomenon. The light is scattering from colloids (proteins and other very small particles) in the milk.

Provided by K. A. CARRADO and J. SULLIVAN, ARGONNE NATIONAL LABORATORY

Reference:

<http://members.cox.net/bennowak/environment/envla/ppmlab.htm>
All past "ChemShorts": <http://member.ship.acs.org/C/Chicago/ChmShort/kid/index.html>

BIRTH ANNOUNCEMENT

Section member **Jennifer Horne** and her husband, Al Schwartz, are the proud parents of a happy and healthy baby girl, Avery Conrad Schwartz, who arrived on Monday morning, August 23. Congratulations!

By the way — Did you notice that the child's initials are "ACS"? Jennifer says they have received a lot of ribbing on this from their chemist friends! She also says it was not intentional!

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!

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR

HAVE YOU MAILED YOUR BALLOT?


Just a reminder that ballots are due in the Section office no later than noon, October 22. They were mailed out in early September.

October, 2004 Vol. 91, No. 8. 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.

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 5,100 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



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ANALYSIS FOR THE CHEMICAL ELEMENTS

ALMA E-NEWS

Laboratory Hazards Recognition Techniques

Laboratories are dangerous places; they contain hazards such as poisons, asphyxiates, lachrymators, caustics, flammables, explosives, carcinogens, high pressures, high temperatures, extreme cold, sharp blades, high voltage, radiation, rotating equipment, pyrophorics, pinch points, heavy loads, dust particles, Laser light, impact devices, blister agents, allergens, loud noise, etc. Yet the injury rate for laboratory workers is less than a third that of U.S. industry as a whole.

This statistic makes sense when we consider that when dangers are recognized, we devise appropriate precautions to protect workers, institute policies or procedures to insure compliance, and train on the safe way to perform operations — in spite of the dangers, recognition and preparation significantly reduce the potential for harm.

Thus, we might conclude that better hazard recognition might improve safety performance — so, why not practice this skill with our staff? This can be done rather simply by using pictures of the workplace containing subtle hazards (usually staged) and having the staff identify them. Another technique is to have a group perform a safety observation while an individual performs a procedure — since each person tends to notice different potential hazards, the group learns recognition techniques from each other.

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

ALMA will celebrate its silver anniversary at the 25th annual conference to be hosted by Agilent Technologies in Wilmington, DE on November 10-12. In addition to a strong technical program, this conference will feature many special events that will make this a memorable occasion. If you've never attended one of our annual conferences, this is the one you can't miss-put those dates on your calendar!

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

WAYNE COLLINS
wayne.collins@bpsolvaype.com

PLEASE VOTE

(BALLOTS ARE IN THE MAIL)

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OUTSTANDING!

At the National ACS meeting this August in Philadelphia, the **Chicago Section** was the recipient of **two** Chem-Luminary Awards for its activities during 2003. The Local Section Activities Committee presents several of these awards annually for outstanding performance in various categories by the Local Sections of the ACS.

The first award was in a new category, Local Section — Division Interaction, and was given for a symposium co-sponsored by the Section and the Division of Professional Relations at the Great Lakes Regional Meeting in May, 2003 at Loyola University. The symposium addressed issues arising from the use of adjunct faculty in higher education and featured presentations by an adjunct faculty member, a full time faculty member, a dean and a union representative. The co-organizers of the symposium were Seymour Patinkin, 2003 Chair of the Division and Susan Shih, 2003 Chair of the Section. More details are available by following links on the Section home page. One result of this symposium was the decision of the Society Committee on Education to form a sub-committee to look further into the issues raised. We are proud to be the first winners of this award.

The second award was for Outstanding Performance by a Local Section, very large category and it is very difficult to win against the excellent competition. This award is based on the activities reported by the Section in the 2003 Annual Report submitted to National ACS. The analysis of the report that we received back from the evaluator was very positive and made favorable mention of several 2003 activities, among them being the Great Lakes Regional Meeting, formation of a WCC, our ChemShorts column and CD as well as the administrative materials we produced. These are just a few of the many items in the report. The narrative portion of the 2003 Annual Report, as well as the nominations submitted, are available on the Section web site. Please check them out and see just what we have accomplished.

These awards belong to all in the Section who volunteered their time and talents during 2003. Without you, the Section can accomplish nothing. Many thanks are due to all who took an active role. We certainly hope you will continue to do so. If you have not been an active member in the past, I hope these results encourage you to reconsider and to join us in one or more of our many activities.

Congratulations and Thank You to everyone involved!

ILLINOIS STATE FAIR

The Chicago Section participated with the Rock River, Illinois Heartland (formerly Peoria), Mark Twain, East Central, Southern Illinois, Decatur-Springfield, St. Louis, and the Kentucky Lake Sections in a successful cooperative project at the Illinois State Fair in Springfield. During August 13-22, 2004, these sections and many tireless volunteers manned the Illinois Sections' exhibition tent in Conservation World. The tent housed hands-on exhibits, demonstrations, information materials and teacher packets. By the end of the fair over 7,700 people had visited and over 150 teacher packets had been handed out.

None of this could have been possible without the generous financial help of the National ACS Innovative Program Grant, Abbott Laboratories, BP, Unilever: Home & Personal Care — USA, American Chemet Corporation, the Chicago Section ACS, the Illinois-Iowa Section, the Rock River Section and non-cash donations of Richard Cornell, John Burke, Illinois State University Department of Chemistry, the East Central Section and Flinn Scientific.

We hope to have a tent next year at the Illinois State Fair. In order to put together a project of such magnitude we need financial help. We are asking for corporate and individual sponsors now. In return we will list you on our website, which runs year round and on the front of our tent at the fair. Also, won't you please join us in volunteering your time on the planning committee or at the Fair? For further information either visit our website at <http://acsillinoisstatefair.org> or call our Section office at (847) 647-8405.

FRAN KRAVITZ and CHERLYN BRADLEY

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>.

CHEMISTS AND CHEMICAL ENGINEERS 'FORMULATE THEIR FUTURE' IN CENTRAL ILLINOIS

The Illinois Heartland (Peoria) Local Section of the American Chemical Society (ACS) will host the **36th Great Lakes Regional Meeting (GLRM 2004)** from Sunday October 17th through Wednesday October 20th at the Hotel PÈre Marquette in Peoria, IL. Researchers from a ten-state region with backgrounds in industry, academia, and government will attend, as well as professionals in the fields of new technology.

The 36th GLRM is unique in that the ACS Division of Agricultural and Food Chemistry (AGFD), the National Center for Agricultural Utilization Research (NCAUR-USDA), and the American Oil Chemists' Society (AOCS) will cosponsor several symposia focused on agricultural chemistry and technology.

Students: There will also be a special poster session on Monday, October 18, 2004 focused on student research. Registration for undergraduates and high school students is only \$20.

Technicians: There will be a session on Professional Staff Issues and an Analytical Poster session.

<http://membership.acs.org/g/rlrm04>

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SCIENCE POLICY QUESTIONNAIRES


This year the Chicago Section Public Affairs Committee continued its practice of submitting questions on public policy issues to candidates for US Senator in Illinois. ACS members in Illinois may then consult the answers to our questions in their voting deliberations. This year, due in part, to the late announcement of the Republican candidate, we are unable to provide the answers in the *Chemical Bulletin*. However, we do plan on providing the answers we receive on our website. In addition, we also plan on providing this information to other local sections in Illinois so that they can provide the information to their members. The six questions we asked the candidates Alan Keyes (Republican) and Barack Obama (Democrat) are provided below. See our website (<http://ChicagoACS.org>) in October for the answers.

1. With the many technological advances in the last 50 years, science and technology plays an increasingly significant role in our society. Do you see any value in having scientists and engineers involved in government? How will you get advice on issues involving science and technology during your campaign, and if elected, after you take office?
2. Until 1995 when it was eliminated, there was an Office of Technology Assessment, which carried out research and furnished information to Congress on issues concerning science and technology. Many S&T experts believe that a similar office that serves the Congress in the way that the Office of Science & Technology serves the president ought to be reestablished. What is your opinion on this issue?
3. Many examinations in the last few years have shown that US school children are falling behind in their level of science literacy, compared to other school children around the world. What role — if any — can the federal government play to reverse this trend? What plans do you have for increasing the number of qualified science teachers in this country?
4. There have been many stories recently concerning the transfer of technical jobs overseas, usually referred to as outsourcing. Where do you stand on this issue? What actions, if any, will you take to prevent the loss of jobs in the scientific sector overseas?

5. We have heard a lot of discussion recently concerning the ethical use/misuse of science. For example, the idea of using stem cells to perform research which could result in major medical advances is ethically and politically controversial because human embryos must be destroyed to harvest the stem cells. How do you feel about the use of stem cells in research? In addition, how do you propose to ensure that scientific research in this important area is done ethically?

6. With the current budget crisis, congress and the administration will be required to take a serious look at funding for all programs. During these times of increased spending on homeland defense, war on terror, the Iraq War and increased global competitiveness, how would you propose to order our spending so that critical areas of governmental funding for civilian research and development remain sound and healthy?

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BASOLO MEDAL

The **Fred Basolo Medal** is given for outstanding research in Inorganic Chemistry. It was established by the former students of Dr. Fred Basolo in appreciation of his contributions to inorganic chemistry at Northwestern University. Basolo arrived at Northwestern in 1946 and was able to help make the Department of Chemistry one of the very best in inorganic chemistry in the U.S., a position it still maintains today.

Basolo is internationally recognized for his original contributions to the syntheses and reaction mechanisms of transition-metal Werner complexes. He has also done innovative work in the developing fields of organometallic and bioinorganic chemistry.

Many of his former students occupy prominent academic and industrial positions. He has influenced students worldwide to study inorganic chemistry, and received the 1992 ACS Pimental Award in Chemical Education.

Among his numerous awards are the 1996 Chicago Section Willard Gibbs Medal and the ACS 2001 Priestly Medal.

Previous Basolo Medalists:

Ralph G. Pearson	1991
Henry Taube	1992
Jack Halpern	1993
Harry Gray	1994
Lawrence Dahl	1995
Richard H. Holm	1996
Kenneth N. Raymond	1997
Malcolm Green	1998
Thomas J. Meyer	1999
James P. Collman	2000
M. Frederick Hawthorne	2001
Stephen J. Lippard	2002
Daryle H. Busch	2003

ON-LINE CHEMICAL SAFETY COURSE (OLCC)

An on-line course on chemical safety will be taught at various colleges and universities in the fall of 2004.

For more information on this course, "Chemical Safety: Protecting Ourselves and Our Environment", visit the course Web site at: http://science.widener.edu/svb/olcc_safety

SECTION SURVEY

Did you know that there is an ACS Chicago Section Survey available on our website? The Membership Committee invites you to fill out and send in the survey for the purpose of finding out your opinions and preferences on the monthly dinner meeting locations, meeting format, and topics. Go to <http://ChicagoACS.org> to fill out the survey.

WHAT'S IT ALL ABOUT

This memorial column contains selected excerpts of an article that Louis J. Sacco, Jr. wrote in October 1990. This article was dedicated to ideas that were near and dear to his heart. The editorial staff of the Chemical Bulletin hopes that our readers will find it as informative as it was in 1990. The numbers have been revised to reflect current values.

The kinds of volunteer work that one finds themselves in sometimes uniquely qualify them to write about a certain topic. I am in that position here in the Chicago Section of the American Chemical Society when I write about the dues of the Section and what they mean.

DUES ARE, WITHOUT QUESTION, FINANCE!

Sources of income for the Section are: 1) National ACS allotment, 2) Local Section Dues, 3) Advertisements, and 3) Investments.

Our 2004 budgeted expense is \$214,523.

Through the years major efforts have been made to conserve capital without sacrificing members services. The Section is strong in the area of aid to education.

Being closely associated with those elements of Section activities as they relate to finance the value of member dues is very evident to me.

There are approximately 5,100 chemists in our Section. Of these, to date, approximately 2,654 have paid the Section dues of \$15. This is an income of \$39,810.

The Section leadership, its Board and committees, has taken strong steps to rein-in expenses and still maintain the high quality of our activities—the kinds of activities that have rewarded us with national recognition.

What a tremendous resource we have in our membership financially, but even more importantly in volunteers, talent, intelligence and motivation!

You are always been generous with the human elements listed above. Here is your chance to be generous in a material way. For those of you who have not drawn from benefits of Section membership and wonder what \$15 will buy, make a selection and you will be amazed at how little \$15 really is compared to a single benefit.

Make that effort the next time an ACS dues bill appears in your mail. You will be rewarded with a deep sense of gratification.

Budget Director's Note:

It has come to the attention of the Chicago Section Board that the number of members paying local section dues over the years has decreased. **Upon surveying Board members it was noted that if you have your company pay your dues, they may**

not be including your local section voluntary portion of \$15. Please check with your company. You can pay your local section dues direct to the Chicago Section by mailing them to our office at Chicago Section ACS, 7173 North Austin Avenue, Niles, IL 60714.

Help your Section by sending in your voluntary local dues when your statement arrives for National ACS. If you have already paid your local section dues, the Section wishes to thank you for your generosity.

CHICAGO WOMEN CHEMISTS COMMITTEE

Members of the Chicago section have initiated a committee to serve the local members. In their kick-off meeting in November, they developed outreach plans for Chicago area members and the community. These plans include a column in the Chicago Bulletin by our members. Topics will include networking, career development, and vignettes of women in chemistry. Also posters or pamphlets will be available at the monthly dinner meetings. Suggestions from our readers are always welcome and may be sent to the Women Chemistry Committee at Shihsu@cdnet.cod.edu or chicagoacs@ameritech.net.

The Women Chemists Committee of the Chicago ACS serves the membership of the American Chemical Society. Our mission is to be leaders in attracting, developing and promoting women in the chemical sciences. There are three goals designed to fulfill our mission statement:

1. Attract women to a profession in the chemical sciences.
2. Provide leadership for career development opportunities for women in the chemical sciences.
3. Promote and recognize the professional accomplishments of women in the chemical sciences.

My trip to China in 1990 to train a joint venture partners' sales staff and meet potential customers illustrates how far women have come. The Chinese hosts had two translators for the Americans, one male and one female. She was indeed the higher skilled translator, and yet, the guy was the translator for the salesmen (all males), physicians (all males) and nurses (all females). At the dinner meeting with the physicians, the Chinese salesmen were scattered among the banquet tables. However, they all sat in a far corner table at the nurse's dinner meeting.

We've come a long way from the two cultures stereotype and, yet, there is always a need to extend a helping hand to our family in chemistry. Krista wants to become a molecular biologist. How does

she prepare herself? What courses should be taken? Which school and which subspecialty of molecular biology? Abbey is an excellent student but has no idea of the diversity of jobs available to chemistry majors. However, she has the talent and willpower to become one of the best chemists. Denise is upset with the two cultures in the lab. Why is it always her job to tidy up the lab? The Women Chemists Committee wants to help Krista, Abbey, Denise and others with their career choices and nurture their career growth.

SHARON J. NORTHUP

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.

IF YOU HAVE NOT RECEIVED YOUR BALLOT, CALL THE SECTION OFFICE.

COME TO CHEMISTRY DAY!

Chemistry Day will be at Loyola University - Lake Shore Campus in Flanner Hall on **Saturday, October 23**. It is scheduled for 9am to 3pm. We have a full slate of activities of many different kinds; children and older students will all find something to interest them.

Demonstrations conducted by high school teachers will catch your attention and amaze the children. There will be contests and hands-on fun for kids of all ages. Exhibitors from industry, academia and government agencies will show and tell what chemists do.

The theme this year is "Health and Wellness". We have several speakers scheduled, among them **Dr. Christine Edmond Brooms** (Using Science to Engineer Your Career), **Professor Geoff Cordell** of the College of Pharmacy of U of I - Chicago (Medicines in Your Backyard), **Dr. Mary Kirchoff** of the Green Chemistry Institute (Healthy Living Through Green Chemistry), and **Dr. Sara Risch**, Principal Partner of Science by Design (Good for You Foods that Taste Good). The Grand Finale (Is it Chemistry or Magic?) will be conducted by **Professor Otis Rothenberger** and **Professor James Web** of Illinois State University.

If you have scouts in your family, plan to bring them to Chemistry Day where they will have the opportunity to earn a Youth Activities badge.

For the most up-to-date information on the Chemistry Day activities, check out the Section web site and plan to join us.

100TH ANNIVERSARY CELEBRATION OF THE FIRST GIBBS MEDAL AWARD

The Chicago Section of the American Chemical Society (ACS) has been celebrating J. Willard Gibbs' major contribution to chemical thermodynamics since 1911. As we approach the 100th anniversary of the Gibbs Medal Award, the Chicago Section has begun preparing for the event by appointing me to organize a small committee to undertake preliminary planning for the centennial celebration (see the May 2004 edition of *The Chemical Bulletin* for further information).

As a physical chemist with many years of experience in teaching and research in the field, I have great interest in and enthusiasm for J. Willard Gibbs and am confident that we can organize a small committee that will do a thorough job of assessing what Gibbs accomplished, the consequences of his work for chemistry, and an appropriate celebration for the 100th anniversary of the Gibbs Medal Award.

Interestingly enough, we are not the only discipline-based group to honor the accomplishments and the substantial and continuing impact of J. Willard Gibbs' work. The American Mathematical Society (AMS) has conducted a long-running lecture series in the name of J. Willard Gibbs. (Visit <http://www.ams.org/secretary/lecturers.html> for more information on this series, which began in 1923.) Its programs alternate between mathematicians and those who apply mathematics in a fundamental manner. Albert Einstein and E. Bright Wilson were both early Gibbs lecturers for the AMS; many years later, Wilson became a Gibbs Medal awardee as well.

Gibbs received the second Ph.D. awarded in the U.S. and the first Ph.D. awarded in engineering. His published work was not immediately recognized for its contributions to thermodynamics, in part owing to the deep penetrations he made in mathematics in pursuing his goal. Indeed, it was Gilbert N. Lewis who went on to develop thermodynamics in a manner specifically pertinent and accessible to chemists (and to chemical engineers) as summarized in his landmark book, *Thermodynamics and the Free Energy of Chemical Substances*, (1923).

Another recent event brings yet another potential participant into the mix. The Chemical Heritage Foundation became the beneficiary of a substantial gift to greatly expand its various efforts in the cause of recording and remembering the contributions made by many to the enormous success of the chemistry (and chemistry-based industry) enterprise.

The Chicago Section of the American Chemical Society, one of about 180 local sections of the ACS, has been assigned a geographic region that covers five counties in northeast Illinois and two counties in northwest Indiana. This region has a population of approximately 7 million and some 5,100 ACS members.

Accordingly, this is a call for nominations of those Chicago Section ACS members you believe can be effective members of the Gibbs Medal Centennial Celebration Committee. Please send your recommendations to lykos@iit.edu, with a copy to chicagoacs@ameritech.net. Please include a statement outlining the basis for your recommendation. Interested parties can also recommend themselves; all such communications will be kept confidential. Further information about Gibbs (and Lewis) is easily accessible on the World Wide Web.

In addition, the committee welcomes suggestions about the form and scope of the celebration. Hitherto, the Gibbs Medal Award has been a Friday evening banquet in May with the awardee as the featured speaker and with the principal national ACS officers as guests.

Once formed the committee should have enough lead-time to do an outstanding job. We look forward to receiving your help and guidance as we work through this challenge.

Best regards,

PETER LYKOS

ACS COMMITTEE ON CHEMISTS WITH DISABILITIES — TRAVEL AWARDS FOR STUDENTS AND POSTDOCTORAL RESEARCHERS

The ACS Committee on Chemists with Disabilities (CWD) is pleased to announce the availability of Travel Awards for students and postdoctoral researchers with disabilities. The program's purpose is to promote presentation of scientific research by individuals with disabilities and provide opportunities to build lasting professional relationships through networking at scientific meetings. The deadline for receipt of the application will be the abstract deadline for the meeting.

For further information on this program or other committee activities, please go to <http://membership.acs.org/C/CWD>, email CWD, or contact Kathleen Thompson 800-227-5558 ext. 8072; TDD (202) 872-6355.

DEATH NOTICE

Lilly Isabelle Carter Wilkes, wife of the late J. Fred Wilkes, passed away March 13 in Titusville, FL. J. Fred Wilkes, had been an active member of the Section and of the Chicago Chemists' Club and Lilly had also been active in some of the Section's and Chemists' Club's activities. She was 92. She was a retired librarian.

She received a bachelor's degree in education from Florida State College for Women in 1934 and a master's degree in library science from Columbia University in 1951.

She worked as a University of Florida librarian from 1941 to 1963, and she worked for the Alachua County Public Library from 1964 to 1970.

Survivors include stepdaughters Mary Wilkes Towner of Urbana, Ill., and Carolyn Kalb of Lake Geneva, Wis.; and a brother, Stafford C. Carter of Titusville.

If anyone is interested in giving a memorial donation, an endowment has been set up at the University of Florida College of Engineering. If donating in Lilly Wilkes name, a memorial donation can be sent to the U of Florida Library

University of Florida Library
Attn: Sandra Melching
210 Smathers Library
POB 117001
Gainesville, FL 32611-7001

University of Florida College of Engineering
c/o The University of Florida Foundation, Inc.
Attn: John E. Knight, Esq.
POB 14425
Gainesville, FL 32604-2425

Section Speakers' Bureau

The Section is trying to rejuvenate its Speakers' Bureau. We have had some individuals volunteer to speak at schools, service organizations etc and a few requests for speakers or demonstrators. We are in need of someone willing to take responsibility for compiling a list of volunteer speakers and topics and for getting this information out to area schools, libraries and service organizations. One person has volunteered to help organize this but cannot take on the project without assistance. If you can possibly fit this task into your busy schedule, please call or e-mail the Section office. If you cannot do this but are interested in speaking, please also let us know.

SUSAN SHIH, CO-CHAIR
LONG RANGE PLANNING

DUTIES OF SECTION COUNCILORS EXPLAINED

This is a reprint of an article appearing in the April 1997 issue of the Chemical Bulletin. The article is updated annually and printed to help you with your decision in electing councilors and alternate councilors in the upcoming Chicago Section election. Remember to cast your vote.

Have you ever wondered who and what ACS councilors and alternate councilors are and what they do for you and the Chicago Section? The two major structural components of the Society besides your national officers and Board of Directors are local sections and divisions. ACS local sections and divisions not only elect their own officers, but also elect representatives to the ACS Council, the deliberative body of the Society. This is your opportunity to have a voice in Society's governance.

The Council consists of the President, the President-Elect, the Directors, the Past Presidents, the Executive Director, the Secretary, and more than 400 voting Councilors representing Local Sections and Divisions. The Council convenes twice a year at the Society's national meetings.

Councilors provide the principal contact between local section members and governance leaders in setting policies for the ACS that directly or indirectly affect you. Councilors are elected to serve a three-year term. Alternate Councilors represent the section when a Councilor is unable to attend a Council meeting.

Councilors also serve on National committees that meet during National meetings. Councilors are appointed to these committees by the President of the Society and are eligible to serve only three consecutive terms on the same committee. A councilor who accepts an appointment to a committee accepts an obligation to work year-round throughout that term. The Councilor is expected to attend meetings of the committee, and be willing to undertake special assignments that require time between meetings.

Committees of the Council are: 1) Standing Committees: Constitution and Bylaws, Divisional Activities, Local Section Activities, Meetings and Expositions, Membership Affairs, and Economic and Professional Affairs; 2) Society Committees: Budget and Finance, and Education; 3) Joint Board-Council Committees: Chemistry and Public Affairs, Environmental Improvement, International Activities, Professional Training, Publications, Science, Minority Affairs, Chemical Safety, and Younger Chemists; 4) Other Commit-

tees of the Council: Admissions, Analytical Reagents, Nomenclature, Project SEED, and Women Chemists; and 5) Elected Committees: Council Policy, Nominations and Elections, and Committee on Committees.

There are also **Standing Committees** of the Board of Directors: Grants and Awards, Professional and Member Relations, and Public Affairs and Public Relations.

The Chicago Section is represented by 14 councilors. You elect the Section's councilors.

Most of these councilors are active members (or associates) on National ACS committees. Your Chicago Section Councilors and their current committee appointments are: **Allison Aldridge** (Minority Affairs), **Roy Bible**, **Cherlynlavaughn Bradley** (Chemical Safety; completed 9-yr service on Project SEED), **Charles Cannon** (Economic and Professional Affairs), **David Crumrine**, **Nathaniel Gilham** (Admissions), **Russell Johnson** (Communications and Public Relations), **Fran Karen Kravitz** (Economic and Professional Affairs; liaison to Technician Affairs; also, a career consultant doing resume reviews), **Thomas Kucera** (Policy), **Claude Lucchesi** (Chemistry and Public Affairs), **Barbara Moriarty** (Divisional Activities; Chair, District V Caucus), **Seymour Patinkin** (Local Section Activities), **Marsha A. Phillips** (Nomenclature, Terminology and Symbols), and **Stephen Sichak** (Constitution and ByLaws).

Alternate Councilors for the Chicago Section are: **Sanford Angelos**, **Inara Brubaker**, **Connie Buenvenida**, **Mark Cesa**, **Herbert Golinkin**, **Jennifer Horne**, **Marilyn Kouba**, **Margaret S. Levenberg**, **Sharon J. Northup**, **Gayle O'Neill**, **Susan Shih**, **Fred Turner**, and **Michael Welsh**.

Some of our Councilors are involved in other activities related to the National Meetings. For example, Roy Bible (with LeRoy Johnson) teaches a 3-day NMR course before each National meeting. Claude Lucchesi teaches a course entitled "Managing the Chemical Analysis Support Laboratory."

James P. Shoffner is Ex Officio, a consultant to the Minority Affairs Committee, the Public Affairs and Public Relations Committee, and the Chemistry and Public Affairs Committee.

Your Councilors and Alternate Councilors ask for your help, in providing your opinions about the Society and issues relating to the Society. This will help Councilors better represent you during Council.

CHERLYN BRADLEY

ARE YOU UNEMPLOYED?

Are you seeking a better job? Are you looking to improve your career? The place to start is with your resume. That is the single tool that will get you an interview, illustrate your professional strengths, and show how you can improve your importance to your employer.

You can get help improving your resume through the Career Consultants. These are volunteers trained by the American Chemical Society to assist its members with writing resumes, contacting prospective employers, and providing tips on interviews.

There are several Career Consultants in the Chicago Section who are willing to meet with you and help improve your resume. **Simply call the Section office at 847-647-8405 and set up an appointment. Fifteen to thirty-minute sessions will be arranged at our monthly meetings.** Should you require more time arrangements can be made with your consultant to continue discussions by telephone, by e-mail or by additional face-to-face sessions. **You also can attend the Section's Job Club where you can network with other people having similar concerns.**

We are here to help. All you need to do is pick up the telephone and bring copies of your resume to the next monthly meeting.

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WOMEN IN CHEMISTRY TRAVELING EXHIBITION

The Chemical Heritage Foundation (CHF) has completed a new traveling exhibition that presents the history and contributions of women in chemistry. This bold new showcase of the many contributions women have made in the chemical professions was made possible through a generous donation by the Hach Scientific Foundation.

"Her Lab in Your Life: Women in Chemistry" takes a fresh look at everyday life, revealing how chemical science and engineering help shape it. Created especially for high school and college students but designed to engage general audiences, this traveling exhibition showcases women chemists who have helped create our modern world and their historic contributions to science and technology. From the action of atoms to the substance of stars, these women have given us new visions of the material world and our place in it.

Taking design cues from youth culture and familiar surroundings such as diners and parks, the exhibition engages the visitor by framing the stories of chemists in a series of 12 thematic stations. These stations celebrate the diversity of fields that chemists pursue, from genetic research to fashion's fabrics, and the women chemists who have left their mark on them. Featured chemists range from the 17th century's Marie Meurdrac and her early chemistry text to today's Susan Solomon and her contributions to environmental understanding.

Themes:

Life — Many of the pioneers in the complex field of biochemistry are women.

Medicines — From penicillin to protease inhibitors, women chemists have helped develop life-saving drugs.

Sanitation - Clean water, wholesome groceries, and safe workplaces are often taken for granted nowadays, but women chemists established many of the standards that safeguard our health.

Environment — Protecting the environment requires knowledge—especially knowledge of chemistry—and women chemists have applied this knowledge in many areas.

Food — From the chemical analysis needed to structure nutritional diets for low-income families to the invention of xanthan gum, women chemists have continually put food on the table.

Style — Women chemists have put their skills to work in today's fashion industry, using chemical processes to create new materials and improved fabrics.

Chips — Women chemists have helped develop and advance the world of semiconductors.

Stuff — Women chemists helped create and improve the thousands of everyday products that surround you.

Discovery — The thrill of discovery drives many women chemists in pursuit of their science.

Challenges — Women chemists faced daunting professional and social challenges in years past, but desire and determination gave many the strength to overcome them.

Knowledge — Women chemists, as teachers, writers, and advocates, worked hard to ensure girls' inclusion in the chemistry classroom.

Work — Chemistry is in demand in so many workplaces, including outer space and archeology digs.

The Women in Chemistry traveling exhibition had its first display at the Intel International Science and Engineering Fair in May. It was at Iowa State University Library, Ames, Iowa, May 26 - July 16 2004, at the 18th Biennial Conference on Chemical Education, Ames, Iowa, July 18-22, 2004, and at the Philadelphia National ACS meeting in August.

To schedule the traveling exhibition "Her Lab in Your Life: Women in Chemistry" at your venue, contact Josh McIlvain at joshm@chemheritage.org or (215) 925-2178, ext. 236.

SCIENCE HISTORY TOUR HEADS TO EASTERN EUROPE

The annual summer Science History Tour headed by University of Illinois at Chicago chemistry teacher **Lee Marek** has just returned from Germany and is making plans for a 2005 tour to Eastern Europe. The two-week trip will start in the second half of June 2005. Exact dates are not yet decided.

The group will travel to Dresden and the Saxony region of Germany, Prague and other places in the Czech Republic, and Vienna, Austria.

Marek said that accommodations will be in comfortable, welcoming hotels where all rooms have private bathrooms. During the tour all admissions to museums, lecture fees, and taxes are included along with land transportation, hotels and breakfasts, and at least (on average) one other meal per day. The cost of the 2005 tour is not yet calculated, but for guidance, the 2004 tour cost was \$2,850 per person double occupancy.

Graduate credit is available. CPDUs are also available for teachers.

For more information and to be put on the mailing list, contact Yvonne Twomey of Naperville, 630-961-9811, ytwomey@mindspring.com, or Lee Marek at 630-420-7516, LMarek@aol.com, www.chem.uic.edu/marek/

THE U.S. NATIONAL CHEMISTRY OLYMPIAD INVITES YOU TO APPLY FOR A COLLEGE MENTOR POSITION

College educators are invited to apply for a position as mentor for the U.S. National Chemistry Olympiad program. Duties during the three-year term include helping to conduct the national study camp for high school students held at the United States Air Force Academy located in Colorado during June 2005, 2006, and 2007. Generally, in their second and third year, mentors accompany four U.S. student competitors to the International Chemistry Olympiad (IChO). During the competition, the mentors will serve as members of the IChO Jury. The 2006 and 2007 IChO events are scheduled to be held in Korea and Lithuania, respectively. The ACS sponsors the U.S. National Chemistry Olympiad program. For more information, go to chemistry.org and search under the keyword, **olympiad**.

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For information, go to <http://chemistry.org/elearning>, E-mail: shortcourses@acs.org, Phone: 800-227-5558 ext. 4508, or Fax: 202-872-6336.

New Feature on LAN Web Site

Need more information on the 2004 presidential and congressional gubernatorial candidates? Go to the American Chemical Society's Legislative Action Center at <http://capwiz.com/chemical> and then select "Election and Candidates." This new feature provides biographical data on the major candidates in the 2004 elections.

The ACS does not support or endorse any candidates for elected office; however, we do encourage you to become a more-informed voter and to vote during the upcoming primaries and on November 2.

WANTED: A FEW GOOD SCIENTISTS FOR PROJECT SEED

You and your organization are invited to apply to participate in Project SEED, the American Chemical Society's social action program that places economically disadvantaged high school students in academic, industrial, and governmental research laboratories for eight-to-ten weeks during the summer.

Project SEED offers high school students two exciting research opportunities:

* The Summer I program will provide first-time participants (rising juniors and seniors) a fellowship award of \$2,275.

* A second-year program, Summer II, provides Project SEED Summer I students an additional summer of scientific research. These students will receive a fellowship award of \$2,600. Additionally, Summer II students will be eligible for a travel grant of up to \$100 to present their research at an ACS or other scientific meeting.

Each student does a scientific research project in chemistry or related field under the direct supervision of a scientist/mentor. The students must be economically disadvantaged and must be enrolled in high school or be recent high school graduates; no student who has matriculated in college is eligible. The students must have taken one year of high school chemistry.

You need not have a student yet in order to apply. Apply now to sponsor a student and the local Project SEED Committee will work with you to obtain a student. Funding for the student will come from the National Project SEED office and/or matching funds from the local Section.

Be sure to visit the Project SEED website for more information: www.acs.org/education/SEED.html

You can also obtain an application form, program guidelines, and other information from your local Section Project SEED co-chair, Cherlyn Bradley (630-510-0352, cbrad1027@aol.com) or from the National ACS Committee on Project SEED staff at 1-800-227-5558, ext. 4380.

APPLICATIONS FOR THE 2005 SUMMER PROGRAM WILL BE AVAILABLE IN NOVEMBER.

APPLICATION DEADLINE WILL BE FEBRUARY 2005.

If you are NEW to the Project SEED program, your willingness to expose

students to a scientific environment is one of several steps that will allow students to discover the world of chemistry. The Council Committee on Project SEED office looks forward to reviewing your application.

Since Project SEED's inception in 1968, more than 7,300 talented high school students nationwide have spent the summer conducting research in local chemistry laboratories under the guidance of mentors. Both students and the community benefit. The students, while earning a stipend, find out what chemistry research or development is about and whether it might interest them as a career. These students become role models for younger students and almost all attend college.

For the Chicago area, less than 100 students have participated—not because we don't have students that qualify or aren't interested in the program (each year we can find plenty of students), but due to lack of academic, industrial, and governmental scientists willing to be mentors. We continue to have the few, dedicated scientists who have been involved in the program several years—and we salute you!

In order to get more Chicagoland students involved in the program, we need two things: 1) more scientists willing to participate as mentors/preceptors to foster the successful continuance and growth of this worthy program in the Chicago area for scientifically promis-

ing, but economically disadvantaged high school students and 2) more funding from Chicagoland corporations, foundations, and individuals to sponsor our students.

For you scientists who are NSF, NIH, or PRF grant holders, it is possible that you can get funding to sponsor a Project SEED student within your proposed research programs. Check with the ACS National SEED office at 1-800-227-5558, ext. 4380.

If you or your company would like to donate to your Chicago Section's Project SEED program to sponsor a local student, contact the Chicago Section office at (847) 647-8405.

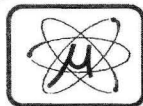
CHERLYN BRADLEY and CHARLES CANNON, CHICAGO SECTION PROJECT SEED CO-CHAIRS

DEADLINES FOR CHEMICAL BULLETIN

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

Since we like the Bulletin to be as timely as possible, we need the lead time indicated. You can help by early planning and submission of your information or articles.

Issue	Deadline
November 2004	9/24/04
December 2004	10/22/04



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CALENDAR

October 11-14, 2004: Industrial Applications of Renewable Resources: A Conference on Sustainable Technologies hosted by the American Oil Chemists Society, Chicago. For further information, call (217) 359-2344 or go to www.aocs.org/meetings/ia.

October 13, 2004: The Chicago Chemists Club will meet at Gusto Restaurant in Glenview. Violinist and pianist Boris and Alla Gorelik, graduates of the Minsk Conservatory, will present a program of popular and classic music. Call Judy Reuter at (847) 679-2444 by Monday October 11.

October 17-20, 2004: ACS 36th Great Lakes Regional Meeting, "Formulate Your Future" at the Pere Marquette, Peoria, IL. Go to <http://member.ship.acs.org/g/rlrm04>.

October 23, 2004: ACS Chicago Section's Chemistry Day will be at Loyola University of Chicago, Flanner Hall, Lake Shore Campus. Free admission. **See article in this issue.**

October 24-26, 2004: The National Paints & Coatings Association Annual Meeting will take place in Chicago. For more information, call 202-462-6272 or go to <http://www.paint.org/meetings/index.cfm>

October 25-26, 2004: The Welch Foundation's 48th chemical research conference will be on nanotechnology, "Chemistry of Self-Organized and Hybrid Materials," and will be held in Houston at the Wyndham Greenspoint Hotel. To register for the conference or to review a complete program, visit www.welch1.org, or call The Welch Foundation at 713-961-9884. The conference is open to all and there is no registration fee.

November 10-12, 2004: The 25th Annual ALMA Conference will be held Agilent Technologies in Wilmington, DE. For detailed information, contact ALMA at (505) 989-4683, alma@labmanagers.org, or go to www.labmanagers.org.

November 19, 2004: Joint Chicago Section ACS Dinner Meeting with the University of Chicago's Department of Chemistry for the Julius Stieglitz Award Lecture.

December 10, 2004: Chicago Section ACS Holiday Party & Dinner Meeting. The speaker will be Dr. Sheila Bailey, NASA Glenn Research Center, who will talk on "Missions to Mars-Past, Present, and Future."

February 27 — March 4, 2005: PittCon 2005 will be held in Orlando, FL, Orange County Convention Center. Go to www.pittcon.org for more information.

CHICAGO SECTION, AMERICAN CHEMICAL SOCIETY
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