DIRECTIONS TO THE MEETING
Reza’s Restaurant is located in the trendy River North section of Chicago. From the “burbs” or O’Hare, head downtown via the Eisenhower Expressway (1290), the Kennedy (190), the Edens (104), or the Dan Ryan (190/94).

From the 190/94, take the exit at Ohio Street (east). Stay to your left and get into the left turn lane on Orleans and take the left turn onto Ontario Street. (Note: Do not take the left turn back out to the expressways.) Reza’s is at the end of the block.

If you are coming from the area of Loyola, Northwestern, or University of Chicago, take Lake Shore Drive to Ontario. Go west on Ontario directly to the restaurant.

PARKING: Reza’s has valet parking and there is also limited metered parking on the street.

Topical Group 5:30 - 6:30 P.M.

“Concept to Consumer: Development of a Modern Immunoassay “ by Dr. Frank Grenier, R&D Project Manager, Diagnostic Division, Abbott Laboratories

Abstract: The immunoassay diagnostics industry can trace its roots to 1959 when Rosalyn Yalow and Solomon Berson described the first radioimmunoassay for plasma insulin. Harnessing the antibody molecule, with its firm yet selective handshake, was the insight that made immunoassays possible. The fundamental principles, elucidated by Yalow and Berson, remain unchanged and Rosalyn Yalow was awarded the Nobel Prize for Medicine in 1977. Over the last 40 years, the use of immunoassays in medicine has grown into a multibillion-dollar industry.

(continued on page 2, column 2)

Social Hour: 6:00- 7:00 P.M.
Cash Bar available. A variety of traditional Persian vegetarian appetizers will be served buffet-style with hot pita bread and relish trays.

Dinner 7:00 P.M.
Menu: Get ready for a wonderful dining experience! The main meal is family-style: Filet Mignon Shishkabob (Chengeh); seasoned Ground Beef Kabab (Koubideh); Chicken Breast Kabab (Brochette); Quail; extra-large, marinated charbroiled shrimp; extra-large, marinated scallops; white rice, dill, grilled vegetables; beverage, and dessert. All this is served “ALL YOU CAN EAT”. Just let your server know that you and your table buddies would like some more!

Dinner 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 website (http://membership.acs.org/C/Chicago) by noon on Tuesday, September 17, 2002. The dinner cost is $28.00 to Section members who have paid their local section dues, members’ families, and visiting ACS members. The cost to non-Section members is $30.00. The cost to students and unemployed members is $14.00. 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.

General Meeting 8:00 P.M.
Ms. Judie Dziezak
Intellectual Property Law Attorney
Wallenstein & Wagner, Ltd.
Chicago, IL
Title: Protecting Your Intellectual Assets: Patents, Trademarks, and Copyrights

Abstract: Have you come up with a unique invention and wondered how to prevent a competitor from exploiting it? Are you concerned about others pirating your brand identity? In your work, are you protecting your trade secrets in a way that prevents others from merely “walking off” with the fruits of your long-term developments? What about protecting the creative expressions in your advertising?

(continued on page 2, column 1)

Notice to Illinois Teachers

The Chicago Section-ACS is an ISBE provider for professional development units for Illinois Teachers. Teachers who register for the September meeting will have the opportunity to earn up to 3 CPDU’s.
updated for the 2003 edition. By invitation, she has also participated as a
speaker in the Microstructure Symposium, sponsored by the Midwest Elec-
tron Microscopists Society, Inc.

Ms. Dziezak has been a member of
ACS since 1974. She is a professional
member of the Institute of Food Technol-
gists. She is also a member of the
American Bar Association, the Chicago
Bar Association, Chicago Intellectual
Property Law Association, and the Amer-
ican Intellectual Property Law Associa-
tion (Chemical Practice Committee).

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 will win one.

Congratulations to T-shirt winner Fran Clifton (June meeting).

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR

(continued from page 1)

Topical Group
Development of a commercially suc-
cessful immunoassay requires both an
understanding of the principles govern-
ing antibody performance and an
awareness of the assay characteristics
important to the user. First and fore-
most, the immunoassay must have
good sensitivity, specificity, accuracy
and precision. The assay must measure
what was intended and do it with good
reproducibility. To serve the fast-paced
and cost conscious medical laboratory,
the assay reagents must also have
good lot-to-lot consistency, excellent
shelf life and be available with an instru-
ment system that delivers high through-
put and data handling capabilities.

Through the use of real-world exam-
iples, Dr. Grenier will describe the
development process for state-of-the-
art immunoassays.

Biography: Dr. Grenier has been with
Abbott for 17 years, during which he
has worked on various aspects of the
development of in vitro diagnostic
immunoassays. Over his career he has
successfully launched thirteen new
immunoassays into worldwide markets.
He has authored numerous technical
papers and holds five U.S. patents. He
received his Ph.D. in Biochemistry from
Michigan State University and held NIH
and American Cancer Society Postdoc-
torial Fellowships at UC San Diego.
A POTATO POWER PLANT

Kids, this activity uses a common potato and two different metals to make enough electricity to run a small digital clock. Try this activity then attempt to expand on it to make a science fair project. You'll need a large raw potato, 2 pennies, 2 large galvanized nails, 3 pieces of 6" long wire, and a small digital clock (such as a Radio Shack Stick-on Timer for $4.99). The digital clock can be taken from an inexpensive alarm clock or it can be purchased from an electronics store.

First cut the potato in half and place the halves next to each other flat face down on a plate. Strip off about 2 inches of insulation from both ends of each wire. Wrap one end of one wire around one of the nails. Press the nail into one of the potato halves. Wrap one end of another wire around one of the pennies. (Do this by laying the penny across the exposed wire, positioned so that it is centered on the wire and almost touching where the insulation begins. Fold the end of the exposed wire over the top of the penny. Pinch the penny and wire between your index finger and thumb on one hand and pinch the overlapping wire with the other hand. Twist the penny until the wire tightens around the penny). Press the edge of the penny about half way into the other half of the potato. Attach one end of the third wire to the second nail and the other end to the second penny as before. Insert this nail into the potato that already has the penny stuck into it then stick the penny into the potato that already has the nail stuck into it. Pop the back off the timer/clock and remove the button battery. Connect the two wires coming from the potato battery to the contact on the battery holder. If the clock does not light then the polarity (+/-) might be incorrect. Just touch the wires to the opposite contacts on the timer's battery holder in that case.

How does it work? Here's the chemistry — the potato contains phosphoric acid. This acid causes chemical reactions to occur at each of the electrodes (galvanized nail and copper penny). The reaction at the copper electrode strips electrons from the copper metal. The galvanized nail contains the zinc needed for the other reaction. The phosphoric acid dissolves the zinc in the nail, which also strips electrons from the zinc. The resulting zinc ions (Zn++) migrate into the acidic juices of the potato. This results in an excess of electrons on the zinc electrode. When a wire is connected from the zinc nail to the copper penny, electrons will flow. This flow of electrons is the electrical current that makes the digital clock function. After this, try hooking the potato battery to an oscilloscope to measure a voltage (about 0.5V); several potato batteries could be connected in series to increase the voltage.

SUBMITTED BY DR. K. A. CARRADO.

Reference: www.quantumscientific.com/pclock.html

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.

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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://membership.acs.org/C/Chicago, 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 5,475 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. Only you can make it fail by not being involved. I look forward to hearing from you.

SUSAN SHIH
Chair

CHEMISTRY DAY 2002

Theme: "Chemistry Keeps Us Clean"

Come celebrate

Chemistry Day Chicago-style

University of Illinois at Chicago
October 26, 2002

contests..hands-on experimentation demonstrations..exhibits..speakers

Need further information?
Want to volunteer to help?

Contact Tom Kucera at tkucera@interaccess.com or phone the Section office (847) 647-8405
EDITORIAL

Welcome to the September issue of The Chemical Bulletin. We hope you had a good summer and are looking forward to a new season of information relating to chemistry and chemists in the Chicagoland area.

Among the items in this issue, you will find a letter from Chair Susan Shih, photos of our new officers (including our new office manager), a list of the High School Scholarship winners and U.S. Chemistry Olympiad results, and a Q&A Gubernatorial feature. The Section now has an online Job Forum Discussion site. Our “ChemShorts for Kids” continues to be one of our popular, regular columns. We also have a new regular article, ALMA e-NEWS, that began with the June 2002 issue. This article is written by Wayne Collins, a member of the Analytical Laboratory Managers Association (ALMA).

Be sure to check out the listing of upcoming events in the Calendar on the back page of this and every issue. If you know of a meeting, course, or other scientific activity that would be of interest to your Section members, send the information to me for inclusion in the Calendar.

With each issue, we keep in mind our commitment to ACS, the Chicago Section’s mission, and the goal of being one of your connections to chemistry-related information in the Chicagoland area and from ACS National.

If you have an idea for a new column, let me know. Keep in mind that any regularly featured column needs a regular contributor.

We continually need advertisers to maintain the vitality of the Chemical Bulletin. How about recommending this publication as a way of advertising to your suppliers and colleagues and for your own business. Our rates are reasonable and we reach out to over 5,800 subscribers. We accept ads for products, services, and employment opportunities. If you are interested or you know of someone interested, call the Section office at 847-647-8405.

We look forward to receiving articles for publications. While we can not guarantee which issue your article will appear, we try to publish submissions as timely as possible.

CHERLYN BRADLEY, EDITOR (cbrad1027@aol.com)

CHICAGO SECTION OFFICERS, BOARD, AND COMMITTEE CHAIRS 2002-2003

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Board Appointed Positions and Committee Chairs

Budget
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Ad Hoc Committee Chairs

Distinguished Service Award
Great Lakes Regional
Middle School/ Junior High
Project SEED
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Younger Chemists

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Marilyn Koubah, Kenneth Olsen
Marsha Phillips
Cherlynlavaughn Bradley, Charles Cannon
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YOUR SECTION OFFICERS FOR 2002-2003

Susan Shih Chair
Jennifer Horne Vice-Chair
Keith Kostecka Secretary
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Milt Levenberg Chair-Elect

THE YEAR AHEAD

Welcome to the 2002-2003 program year of the Chicago Section of the American Chemical Society. We have a number of exciting programs and activities planned and we hope that we will see you at some of them.

First let me mention two changes that have occurred over the summer. We have hired an Office Manager, Ms. Gail Wilkening, and the office is now open Monday through Friday from 8 am to 1 pm. Please call or stop in to say hello.

The second change results from the adoption of the revised Bylaws at the June meeting. We are now on a calendar year rather than an academic one. The only change that most Section members will notice is the shifting of Section elections from Spring to Fall. The officers and directors elected last Spring will be serving an additional six months so the next election will be in Fall of 2003.

Last spring the Section set up a free jobs discussion group accessible from a link on our home page. If you are interested in this, read the accompanying article and check it out.

The activities above are just some of what the Section does to serve member needs. All of these take time and effort by fellow Section members. We all have many responsibilities clamoring for our time, but the Section can only be as active and successful as our members make it. We cannot do it without you. If you have an interest in volunteering for any Section activities, please fill out the enclosed volunteer form and send it back to the Section office or call and leave your name. The appropriate committee chair or I will contact you.

See you at a meeting!

SUSAN SHIH
CHAIR

NEW OFFICE MANAGER

The Chicago Section welcomes Gail Wilkening, the new Office Manager of the Chicago Section’s office. Gail holds a BS in business from UIC and has worked in the office management field for over 10 years. She is involved in a number of community activities, including serving as Past-President and current Treasurer of the Park Ridge Recreation and Park District Board of Commissioners. Gail’s role in the Section’s business functions will be an asset to the Section. Be sure to stop by the office and introduce yourself! Office hours are 8 am — 1 pm Monday through Friday.

The Chicago Section’s e-mail address is
chicagoacs@ameritech.net
RESPONSES OF REPUBLICAN AND DEMOCRATIC GUBERNATORIAL CANDIDATES TO QUESTIONNAIRE ON SCIENCE POLICY ISSUES

In 1992 the Public Affairs Committee of the Chicago ACS began a program of submitting a questionnaire on public policy issues to candidates for major offices in Illinois. Members could then use the answers in their voting deliberations. In 1992, 1996 and 1998 we submitted questions to candidates for US Senate from the two major political parties. In 1994 and 1998 we submitted questions for gubernatorial candidates from the two major political parties. As was the case in 1998, there are elections for both governor and US Senate and we have submitted separate questionnaires to candidates for the both offices. Our plan is to publish responses for the gubernatorial race in this issue and to publish responses for the Senate race next month.

Unfortunately, we were unable to obtain answers from one of the candidates for Governor in time for the print bulletin. We are hoping to be able to get answers from the Republican candidate and post the responses on our website. In the meantime, we invite you to read the responses from the Democratic candidate and use these responses, along with other information in your deliberations on Election Day. The gubernatorial candidates are James Ryan (Republican) and Rod Blagojevich (Democrat).

BARB MORIARTY
JIM SHOFFNER
Co-Chairs, Public Affairs Committee

QUESTIONS FOR ILLINOIS GUBERNATORIAL CANDIDATES

1. With the many technological advances in the last 50 years, science and technology continues to play a big role in our society. What is the value in having scientists and engineers involved in government? If you do see a need for scientists and engineers in government, how will you include scientists in your government? If you don’t see a need for scientists in government, how will you get advice on issues involving science and technology?

Blagojevich: Scientists and engineers provide a valuable service to state government by safeguarding our environment, introducing new methods for medical treatment, enabling the advancement of agriculture and related fields, providing sources of energy, saving money, and teaching the children of the State of Illinois. Accordingly, scientists will play a significant role in my administration. I will hire the best and the brightest individuals in my administration. Moreover, I will consult with business and professional organizations like the American Chemical Society to facilitate the resolution of scientific issues.

2. Concern over environmental issues, such as clean air and clean water has continued since the inception of the EPA in 1975. What steps will you take as governor to ensure a clean environment for all Illinois's citizens? How will you promote new technology, including green chemistry, for a cleaner environment in the future?

Blagojevich: I believe that protecting the health of our environment is not in conflict with growth in jobs and the economy. And I believe that business and the scientific community need a seat at the table when environmental policies and new technologies are considered. For instance, I have proposed re-powering outmoded power plants using advanced technology that can burn Illinois coal, which is higher in sulfur than Western coal. In 1978, just after the 1977 Clean Air Act, there were 17,900 coal-mining jobs in Illinois. By 2000, there were only 3,850 coal-mining jobs, and the resulting effect on the Southern Illinois economy was the equivalent of the loss that Chicagoland would suffer if O'Hare were permanently closed. Most lawmakers who supported the 1997 law assumed that older coal burning plants, grandfathered in by the bill, would be replaced by newer technology as they reached the end of their 40-year expected lives. Instead, these plants have been continuously repaired, dodging newer clean air standards. My goal, using state-backed bonds to give companies an incentive to participate, would be to upgrade outmoded power plants within 10 years using advanced coal technology that burns Illinois coal, and to promote the use of mine mouth power generation.

3. Teachers, especially those who teach science, are becoming increasingly harder to find. In fact, many science teachers are not teaching in the area of their expertise. What plans do you have, as governor, for ensuring that teachers are experts in their fields? What will you do to increase the number of qualified science teachers?

Blagojevich: My plan calls for an end to “out of field teaching”. We cannot allow our students to continue to be taught math, for example, by the physical education teacher or science by the history teacher. I would also provide higher scholarship incentives through my Illinois Future Teacher Corps proposal for those teachers who agree to teach in shortage regions (low income rural and urban areas), subject areas, or agree to become nationally certified. I was the first candidate to propose a plan to help the state meet the anticipated need to fill over 60,000 teaching positions - of which at least 5,000 will go unfilled unless dramatic measures are taken by the state to increase our pool of teachers. My plan includes an aggressive, targeted campaign to recruit the best and brightest teachers across the nation to teach in Illinois public schools, and that provides recruiters with $10,000 signing bonuses to attract 1,000 top-tier recruits from across the nation. In addition, my plan seeks to encourage more teachers who are certified in Illinois to teach here. Of the 13,000 individuals that passed the teaching certification exam last year, only 6,655 went to work in our public school system. We need to do more to keep that talent in our state.

4. Biotechnology is one of the cutting edge technologies that have the potential to benefit the state of Illinois through job creation and additional revenue to the state. What actions will you take, as governor, to foster the development of high technology industries?

Blagojevich: Despite large growth in the amount of venture capital in Illinois, we are dramatically behind the East and West Coasts. Of the 20 largest metro areas, Chicago ranks only 17th in venture capital investment per capita. Our share of national venture capital investment in 1994 was 4%. In 2001, our share was less than 2%. To foster the development of high technology industries, I would build on innovative models of public/private partnership that have successfully created jobs in Oklahoma, Iowa, and Colorado through the creation of the Illinois Opportunity Fund. I look forward to working with members of the business and scientific communities to develop the details of a workable program for Illinois. The new venture capital funds will help local entrepreneurs build and strengthen quickly growing industries like high technology and value-added agriculture.

(continued on page 7)
5. We are all aware that the state of Illinois is experiencing a budget crisis. What plans do you have to fund educational and environmental programs and provide funding for the development of new technologies, which could lead to new industry for the state of Illinois?

Blagojevich: I will not only commit to dedicating at least 51% of new revenues to education funding, I will seek to have this practice codified into law. In addition, I would work to ensure that more of each year’s new revenues go into the classroom. In addition, we must take advantage of the federal government’s new interest in a true educational partnership with the states. Illinois must more aggressively pursue federal dollars, and could also provide grant writing assistance to local governments.

I will fund priority programs such as education and environmental programs and economic development, by bringing new leadership to state government and turning back misplaced spending priorities. As Governor, I am committed to ending politically motivated spending and eliminating administrative waste to free up more money for worthwhile programs.

CONTINUING EDUCATION COMMITTEE

The task of the Continuing Education Committee is to present programs that keep the practicing chemist informed of recent developments in the various fields of chemistry. The format has varied from a series of lectures over a number of weeks on a single theme, such as analytical instrumentation, to full day or half day programs. The committee has also worked with the national ACS Continuing Education Division in giving short courses and with the topical group and program committees of our section.

Some of the topics presented over the past few years were Solid Phase Combinatorial Chemistry, Statistics for Chemists, Employment Searching, Finding Chemical Information on the Internet, 2D NMR, Chromatographic Separation of Enantiomers, Drugs from the Tropical Rain Forests.

The Continuing Education Committee needs the help of the section members to suggest various topics and/or speakers. We would also like to know what formats would be preferable. Please send your suggestions to Fred Turner, (fturner@roosevelt.edu) or call the section office, 847-647-8405.

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The Chicago Section supported the U.S. Chemistry Olympiad again this year. Under the direction of Dr. David Crumrine, both rounds were held at Loyola University. On March 16, 2002 the search for potential nominees took place. About thirty-three students took a two-hour exam to identify the top students. The top students who qualified to take the challenging five-hour National Exam on April 16, 2002 were

Paul Kizior
Pericles Abbasi
Benjamin Kolak
Rob Tupuritis
Ryan Huang
Ben Kaduk
Alex Makedonski
Sanjay Kadiwala
Gina Nicole Monaco

Carmel High School
Fenwick High School
Maine West High School
Maine West High School
Naperville North High School
Naperville North High School
Niles West High School
Schaumburg High School
University of Chicago Lab Schools

The Chicago Section had numerous honor and high honor rankings. We are proud to have such a talented group of students in our section. Pericles Abbasi, from Fenwick High School, received high honors (top 50) and also qualified to attend the U.S. Chemistry Olympiad camp. Pericles placed among the top twenty students in the nation. The top twenty students from the National Exam attended the study camp from June 2-16, 2002 at the U.S. Air Force Academy. Out of this group, four students entered the ICO held in Groningen, Netherlands from July 5-14, 2002. The other rankings are as follows:

High Honors- Ben Kaduk Naperville North High School
Honors- Paul Kizior Carmel High School
Benjamin Kolak Maine West High School
Sanjay Kadiwala Schaumburg High School

The Chicago Section would like to thank Dr. David Crumrine and Loyola University for sponsoring the competition this year. We would also like to thank all the chemistry teachers who dedicate their time and hard work to prepare these students.

AMI LEFEVRE
Chair, High School Education Committee

REVISED BYLAWS
APPROVED

At the June 21, 2002 Section membership meeting the proposed revisions to the Bylaws were approved, with implementation taking place on July 1, 2002.

The main effect of these changes will be the change of the Section’s fiscal and programming year from the current coincidence with the academic year [July through June] to coincide with the calendar year [January through December]. The administration that took office on July 1, 2002 will serve for eighteen (18) months during the transition. There will be a six-month fiscal year from July 1, 2002 through December 31, 2002 followed by the normal 12-month fiscal year from January 1, 2003 through December 31, 2003. The revised bylaws are posted on the Section’s website.

The ACS Committee on Chemists with Disabilities announces the latest edition of

Teaching Chemistry to Students with Disabilities

-a resource book for teachers at the high school, college, and postgraduate level; students with disabilities; parents, and counselors.

Call 800-227-5558 ext. 4600 for your complimentary copy.

HIGH SCHOOL EDUCATION COMMITTEE WEBSITE

The Chicago Section’s High School Education Committee now has a website at

http://www.glenbard.dupage.k12.11.us/south/southstaff/heimz/ACS/acshome.htm

There is a link for the site on the Section’s Website Home page.

JOBSPECTRUM’S NEW PRODUCTS

May was the debut of JobSpectrum’s newest product, ChemHR. ChemHR is an electronic newsletter specifically for recruiters and hiring managers in the chemical sciences. ChemHR offers a blend of news and trends in hiring, recruitment, compensation, and workforce analysis-solid information each month delivered directly to your desktop. If you are a recruiter, a hiring manager or want to help out HR, join the ChemHR mailing list at jobmaster@JobSpectrum.org with “Subscribe ChemHR” in the subject line.

Campus Center at JobSpectrum made its first appearance at the Orlando National Meeting. A comprehensive career service for students, their faculty, and campus recruiters, Campus Center is designed to help students with their career planning so that they can make an effective transition to the workplace, help departments showcase their students and academic programs, and help recruiters looking for entry-level talent. Learn more at

www.jobsspectrum.org/campus/campus_center.html.

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CHICAGO SECTION MEETING CALENDAR 2002-2003

September 20-21, 2002
Dedication of Hull House as a National Chemical Landmark

October 18, 2002
Section meeting
Fred Basolo Award address
Prof. Stephen J. Lippard
MIT, Cambridge, MA
"Three Avenues in Bioinorganic Chemistry: Cisplatin, Methane Monoxygenase, and Metalloneurochemistry"

October 26, 2002
Chicago National Chemistry Day
UIC

November 22, 2002
Section meeting
Julius Stieglitz Lecturer
Dr. Pat Gruber, Cargill-Dow

December 13, 2002
Section meeting
Dr. Mark Ratner
Northwestern University
"Wine, Beer, Scotch and Chemistry"

January 24, 2003
Section meeting
Dr. Daniel W. Armstrong
Iowa State University
"Separating Microbes in the Manner of Molecules"

February 21, 2003
Section meeting
Mr. Gary Kitmacher
NASA, Johnson Space Center
"Views from Space"

March 14, 2003
Section meeting
Public Affairs program

April 25, 2003
Section meeting
Dr. Michael Pellin
Argonne National Laboratory
"Analytical Chemistry of Stardust"

May 30, 2003
Section meeting
Willard Gibbs Medal Award
TBA

May 31-June 2, 2003
Great Lakes Regional Meeting
Loyola University, Chicago.

June 20, 2003
Section meeting
Scholarship awards presented
Dr. Tejal A. Desari
Boston University, Boston, MA
"Micro-therapeutic Constructs: Opportunities in Implantable and Oral Based Drug Delivery"

ALMA E-NEWS

Safety Data

The typical laboratory has multiple sources of safety data. For example, we may have incident reports, near-miss reports, safety inspections, chemical reviews, MSDS sheets, observation comments from behavioral based safety programs, industry or government reports, process hazard evaluations, training materials, noise surveys, ergonomic audits, and on and on. Unfortunately, we typically do not have a system to organize and transform these data into useful information for use in our daily operations. For example, take a look at how often your analytical methods are updated with new safety information. If yours is like most labs, it may have been years since anything new was added. The problem is not a lack of new data but rather a disconnect with the documentation system. The disconnect is especially great for more subtle issues such as ergonomic risks. We might modify a procedure to include a warning about exposure to a toxic chemical but would be less likely to modify it to mention a risk of repetitive motion injury. To fix this problem, we need to establish a system to mine information from our data sources and then to modify our procedures to include the findings. If the idea of updating all your procedures is too daunting, how about taking on one or two each month, perhaps as part of the monthly safety meeting? It is important to close the loop to get our hard-learned safety lessons back into our daily operations where they will do the most good.

Past ALMA (Analytical Laboratory Managers Association) e-News editions are now available on website http://www.labmanagers.org/. If you have any comments, cost saving suggestions, opinions, etc. let me hear from you.

WAYNE COLLINS
wayne.collins@bpsolvaype.com

CHEMISTRY DAY 2002

Chemistry Day Chicago style will be celebrates this year at UIC on October 26, 2002. The National Chemistry Week theme for 2002 is "Chemistry Keeps Us Clean". The Chicago program will include contests, hands-on experimentation, demonstrations, exhibits, and speakers. An active committee chaired by Tom Kucera and Dave Crumrine together with volunteers helps make this day enjoyable and educational for the visitors. If you are interested in helping to celebrate Chemistry Day 2002, please email Tom Kucera at tkucera@interaccess.com or phone the Section office (847) 647-8405.
ONE-STOP-SHOPPING
FOR CHEMICAL SAFETY
INFORMATION

Are you looking for chemical safety information for teachers, for students of all grades, or for your business, and you need it quickly? The ACS Committee on Chemical Safety website is the place to stop and “shop.” Many of the publications are available free-of-charge in electronic format from the website. All publications contain ordering information. Visit the website at http://chemistry.org/committees/ccs for additional information.

ORGANIC CHEMISTRY
INTERNET COURSE

Governors State University offers an Organic Chemistry I Internet course this Fall. There will be online, live synchronous sessions available on Mondays 8-9 pm. For registration fee and other information, contact the instructor, Shailendra Kumar (s-kumar@govst.edu; 708-534-4528).

REGISTER TO ATTEND
MONTHLY SECTION MEETINGS
ON LINE

at
http://membership.acs.org/C/Chicago

ACS ONLINE GUIDE
TO CHEMICAL SCIENCE
MASTER’S DEGREE
PROGRAMS

http://chemistry.org/education/student/mastersprogram.html

Analytical, Biochemistry, Computational, Forensic Inorganic, Marine, Materials, Organic, Physical Polymer, Theoretical, Toxicology, Education

Master's degree programs in the chemical sciences continue to grow and change. Programs range from traditional programs to emerging subdisciplines covering agricultural, environmental, and pharmaceutical chemistry, as well as professional training and teaching programs. In view of the growing employment opportunities for master’s graduates, the ACS Office of Graduate Education has prepared a database of Master’s programs so students can match their interest with the available programs. The Registry is accessible without charge via the ACS Web site and will be maintained and updated by the ACS Office of Graduate Education as a service to students, colleges, and universities.

If your university would like to be included in the Registry please visit the ACS Graduate Education Web site at www.chemistry.org/education/student/gradeducation.html to download a questionnaire for the Registry of Chemistry-Based Master’s Degree Program.

SECTION DINNER MEETING
DATES FOR 2002-2003

2002
October 18
November 22
December 13

2003
January 24
February 21
March 14
April 25
May 30*
June 20

*changed from May 16

Put your business card here
Reach prospective clients by advertising in The Chemical Bulletin
For more information, call the Section office (847) 647-8405 or email at chicagoacs@ameritech.net

ALMA CONFERENCE

The 23rd Annual ALMA (Analytical Laboratory Managers Association) Conference is scheduled in St. Louis on Thursday, October 17, 2002. Preceding the conference will be three workshops that may be of particular interest to ACS members. The mission of our Association is to share and disseminate information about the management of analytical services and instrumentation laboratories.

Both the conference agenda and the workshop descriptions can be viewed at the ALMA website at www.labmanagers.org.

FACULTY ELECTED TO TOP
HONORARY SOCIETY

Three Northwestern University faculty members were recently elected to the National Academy of Sciences (NAS). Election to the NAS is considered one of the highest honors that can be granted an American scientist or engineer. Elected were: Zdenek Bazant, the Walter P. Murphy Professor of Civil Engineering and Materials Science; Mark Ratner, the Charles and Emma H. Morrison Professor in Chemistry; and Patricia Spear, the Guy And Anne Youmans Professor of Microbiology and Immunology.
THE CHICAGO SECTION OF THE ACS ONLINE NETWORKING AND JOB FORUM

Are you searching for a job? Do you want to help create a place where you can find a job if the worst ever happens to you? Do you know of a job opening where you work? If you answered yes to any of these questions then you should join the Chicago Section of the ACS online networking and job forum, ACSchicagojob Forum in Yahoo Groups. It's FREE!

The Chicago Section of the ACS has created an online networking and jobs forum site. This is the place where you can search for a job, where you can network with others and where you can help others by posting job openings. Help create the Chicagoland online place where chemists and engineers can network. Help create the place where you can get assistance finding your next job. Join now!

Why is it important to network to find a job? From the ACS's "Networking: A How-To Guide":

Two-thirds to three-quarters of successful job seekers found their jobs as a result of personal contacts, networking, or cold calling. Networking is so important because it gives you access to the hidden or unadvertised job market, and the only way to uncover these unadvertised openings is through talking to as many people as you can.

This is why it is important to network. The ACSchicagojob networking forum is the place to do it. ACSchicagojob is the place to develop your network contacts. Let's work together to build the online networking place for Chicagoland chemists and engineers. Let's create a place that can assist you and others find a job if the worst ever happens to you. So, if you need a job or if you will ever need a job, this is the place to aid you. This is the place where you can get help others find a job.

Your assistance is needed to get this great experiment started! Join now! ACS members need your help now and you might need their help someday, too!

To join, go to: http://groups.yahoo.com/group/ACSchicagojob and click the "Join This Group" button on the top of the page, just to the right of the "ACS Chicago Section Job Forum" banner. If you are a member of Yahoo, you can log in during the joining process, otherwise you can set up a free Yahoo account with whatever screen name and password you choose. Questions? Ask Milt at mlsppec@att.net, or Ken at ChemDoc77@aol.com.

Join now and make a deposit on your future!

Please note that you do not have to be a member of the ACS to join the ACSchicagojob networking forum. So, spread the word to all chemists, engineers, headhunters, and HR people about ACSchicagojob.

ELMHURST COLLEGE EVENING ACCELERATED CHEMISTRY PROGRAM

Elmhurst College has a new Evening Accelerated Chemistry major. Undergraduate students who have already completed two terms each of general chemistry, organic chemistry, calculus, and physics can finish up their degree in two years by taking classes two nights a week. Pre-requisites may be completed at Elmhurst if necessary. The accelerated program strongly emphasizes chemical instrumentation. Advanced courses include polymer and inorganic chemistry. For details, contact Bob Baker at 630-617-3306 or at rbaker@elmhurst.edu. See also http://www.elmhurst.edu.

HOSPITALITY MENTORS

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

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR

SCIENTIFIC LITERATURE DATABASE

ScienceWise, now a division of TheScientificWorld, Inc., provides access to the world's scientific literature through sciBASE — a database covering 30 million documents from more than 30,000 journals with 10,000 new documents added each day. This service enables you to locate, purchase, and receive online individual scientific articles. In addition, be alerted to newly-published scientific research in your areas of interest through the pupALERT alerting service. For more information, go to http://www.TheScientificWorld.com/

DEATH NOTICE

We are saddened to report that Dr. Walter McCrone, longtime member and friend of the Chicago Section, international expert in chemical microscopy and great humanitarian, died July 11, 2002. Condolences may be sent to his widow, Mrs. Lucy McCrone at the address below:

McCrone Research Institute, Inc., 2820 South Michigan Avenue, Chicago, IL 60616

CHICAGO CHEMISTS' CLUB

Club History

The Chicago Chemists' Club was chartered December 30, 1919 as a social organization to promote good fellowship and camaraderie among Chicago-area chemists. Through the years, the Club roster has included many prominent members of the chemical profession.

Social Events

The social calendar of the Chemists' Club includes ten dinner meetings per year where spouses and/or guests are welcome to attend. Weekend events include a spring theater party, an annual dinner dance, and a summer outing in July or August. All other events are on the second Wednesday evening of the month at various restaurants in the Chicago metropolitan area. The programs include a variety of delicious cuisine—to the accompaniment of timely, stimulating speakers, ethnic music and dance, and other exciting types of entertainment. The Club is also a co-sponsor of the Chicago Section ACS' annual Holiday Party in December.

Civic Activities

The Club annually presents the Bernard E. Schaar award to the first place winner of the chemistry examination given by the Chicago Section ACS. The presentation is made at the Chicago Section ACS' Education Night meeting in June. The Club also contributes, from time to time, to philanthropic organizations.

Membership Benefits

Membership dues are $50 per year. As a non-profit organization, the Club returns a portion of these dues to its members in the form of dinner price reductions. The Club also publishes an informational newsletter, the Stirring Rod, and a biannual Membership Directory.

Joining the Club

Membership is open to all persons interested in chemistry and its application. A person wishing to join must be sponsored by an active member and complete an application, which is subject to the approval of the Board of Trustees.
2002 SCHOLARSHIP EXAM RESULTS

The High School Education Committee of the Chicago Section ACS held its 48th annual High School Scholarship Examination on May 4, 2002 at Loyola University. The chemical industry and individuals contributed funds. Contributors to the 2002 Scholarship Exam are Akzo Nobel Corporation, Pharmacia, Baxter Healthcare Corporation, Alltech Associates, Inc., and Rachel Smoler. Many thanks to the contributors and their generous donations. This year, 87 students were nominated to take the examination. Each high school chemistry teacher could nominate up to two students.

### PRIZE

<table>
<thead>
<tr>
<th>Prize</th>
<th>Winner</th>
<th>School &amp; Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST</td>
<td>Xin Henry Fang</td>
<td>Lee Marek, Naperville North High School</td>
</tr>
<tr>
<td>$5,000 AWARD</td>
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<tr>
<td>SECOND</td>
<td>Andrew Reder</td>
<td>Preston Hayes, Glenbrook South High School</td>
</tr>
<tr>
<td>$3,000 AWARD</td>
<td></td>
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<tr>
<td>THIRD</td>
<td>Xing Ye</td>
<td>Beverly George, Naperville North High School</td>
</tr>
<tr>
<td>$2,500 AWARD</td>
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<tr>
<td>AKZO NOBEL</td>
<td>Nicholas Kohout</td>
<td>Ramzi Farran, Fenwick High School</td>
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<tr>
<td>FOURTH</td>
<td></td>
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</tr>
<tr>
<td>$1,500 AWARD</td>
<td>Calvin Lee</td>
<td>Ami LeFevre, Niles West High School</td>
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<tr>
<td>FIFTH</td>
<td></td>
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<tr>
<td>$1,250 AWARD</td>
<td>Xing Ye</td>
<td>Beverly George, Naperville North High School</td>
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<tr>
<td>PHARMACIA</td>
<td>Lukasz Koscielski</td>
<td>Alice Hollowed, Lane Tech High School</td>
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<tr>
<td>MARIE LISHKA *</td>
<td></td>
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<tr>
<td>$500 AWARD</td>
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<tr>
<td>MARSHALL S. SMOLER**</td>
<td>Lukasz Koscielski</td>
<td>Alice Hollowed, Lane Tech High School</td>
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<tr>
<td>$200 AWARD</td>
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<tr>
<td>Bernard E. Schaar***</td>
<td>Lukasz Koscielski</td>
<td></td>
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<tr>
<td>$400 Chicago Chemists' Club Award</td>
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</table>

*To the highest scoring female in the examination.
**To the highest-scoring Chicago Public High School Student. Rachel Smoler established this award in 1972 in memory of her brother, Marshall S. Smoler. Mr. Smoler was for many years a chemistry teacher in the Chicago public schools.
***To the highest scoring Chicago High School student. Mr. Schaar’s widow established this award in memory of Mr. Schaar, long active in Chicago Section American Chemical Society and the Chicago Chemist’s Club.

HONORABLE MENTIONS LISTED IN ALPHABETICAL ORDER
(These students were the next highest performers)

<table>
<thead>
<tr>
<th>STUDENT</th>
<th>SCHOOL &amp; TEACHER</th>
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<tr>
<td>Matthew Biancakana</td>
<td>Naperville North (Beverly George)</td>
</tr>
<tr>
<td>Terrence Coyne</td>
<td>Maine West (Dr. Marty Landorf)</td>
</tr>
<tr>
<td>Alexander Donovan</td>
<td>New Trier (Gillian Thomsen)</td>
</tr>
<tr>
<td>Paul Hieromnimon</td>
<td>Loyola Academy (Walter Pape)</td>
</tr>
<tr>
<td>Patrick Lange</td>
<td>Fenwick (Ramzi Farran)</td>
</tr>
<tr>
<td>Michael Lariviere</td>
<td>Loyola Academy (Walter Pape)</td>
</tr>
<tr>
<td>Melissa Liu</td>
<td>Hinsdale Central (Philip Boria)</td>
</tr>
<tr>
<td>Karen Levin</td>
<td>Niles North (Najwa Dajani)</td>
</tr>
<tr>
<td>Emma Morrison</td>
<td>Glenbard South (Kenneth Artner)</td>
</tr>
</tbody>
</table>

(continued on page 13)
Chandanai Patel
Thomas Quach
Steve Scheuer
James Seiler
Nathaniel Sokol
Felix Yap
Sara Zenner
(continued from page 12)
Maine East (Tina Sabatello)
Lincoln Park (Mike Cipolla)
Hinsdale Central (Philip Boria)
Marist (Denis Kazelas)
Sandburg (Sherry Berman Robinson)
Naperville North (Bob Schmitt)
Warren Township (David Shirley)

The section is grateful to Dr. Daniel Graham from Loyola University for authoring and administering the examination. Dr. Graham has been a critical part of making this exam a success and encouraging studies in the chemistry field.

AMI LEFEVRE, HIGH SCHOOL EDUCATION COMMITTEE CHAIR

**2002 ACS-PRF GRANTS APPROVED**

The ACS Board of Directors approved ACS-PRF grants and supplements to existing grants for summer research fellowships for faculty from undergraduate departments. The PRF is an endowed fund originally established as a trust in 1944. ACS administers the PRF fund. The 2002 ACS-PRF Grants includes five Chicagoland recipients.


Congratulations!

For information and application materials for PRF grants, contact the Petroleum Research Fund, American Chemical Society at (202) 872-4481, prfinfo@acs.org, or http://www.chemistry.org/prf.

**SCHOLARSHIPS**

The Illinois Chemical Education Foundation Scholarship Program provides $2,000 Undergraduate Scholarship Awards for qualified Illinois residents enrolled in chemistry, biochemistry or chemical/environmental engineering at post-secondary educational institutions located in Illinois. For more information contact the Chemical Industry Council of Illinois at 847-823-4020. http://www.cicil.net

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

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<th>State-of-the-art instrumental techniques</th>
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Rigaku’s Miniflex™ was not available for the Apollo program which sampled 6 lunar sites or the un-manned Soviet Luna program which sampled 3 sites, but maybe next time.

THE CHEMICAL BULLETIN’S 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 5,600 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

SIZE DIMENSIONS RATE
Full Page 7.5" wide x 10" depth $600
2/3 Page 4.917" wide x 10" depth (2 columns) $450
1/3 Page 2.333" wide x 10" depth (1 column) $300
1/2 Column 2.333" wide x 5" depth $150
Business Card 3.5" wide x 2" depth $75

For more information, contact the Section office at 847-647-8405; email at chicagoacs@ameritech.net. Fax insertion orders to 847-647-8364.

Advertising Index

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</table>

GREAT LAKES REGIONAL MEETING
The 34th Great Lakes Regional Meeting of the American Chemical Society was held at the Radisson Hotel Metrodome in Minneapolis, MN on June 2-4, 2002. There were over 700 attendees, with 29 exhibitors and 349 papers presented. A poster session was held from 6-10 PM on Sunday evening, where 179 of these papers were presented. A reception was held for all attendees during the poster session.

The Women Chemists Committee presented a Panel Discussion and a Regional Award for Contributions to Diversity. An Awards luncheon was also held at which Ann Levinson of the Chicago Section ACS received the ACS Regional Award in High School Chemistry Teaching. Industrial Innovation Awards were also presented at this luncheon to two chemists from Cargill, Inc. and fifteen chemists from Abbott Laboratories. The Employment Clearing House, sponsored by the National ACS was held throughout the meeting.

The 35th Great Lakes Regional Meeting will be held at Loyola University, Chicago, May 31-June 2, 2003. The 36th GLRM will be in Peoria, October, 2004.

MARILYN KOUBA
2002-2003 CHICAGO ACS VOLUNTEER FORM

I am interested in working on the following Committees. Indicate preference, if any, by a 1, 2, etc. Return to Chicago Section Office, 7173 N. Austin, Niles, Illinois 60714. Or fax to (847) 647-9364.

Name: ________________________ Phone: ________________________
E-mail address: ____________________

Address: ____________________ ____________________ ____________________ ____________________ ____________________

□ Awards. Determine local section nominees for various ACS and local awards; assemble information and make formal nomination.
□ Bulletin Advertising. Assist Publications Business Manager in contacting possible advertisers; follow through on advertising leads; suggest ad solicitation programs.
□ Chemical Bulletin Editorial Staff. Proofread copy; write articles, program notes, etc.
□ Chemistry Day. An annual 1-day or weekend event depending on year. Serve on committee making plans for the event, as a judge for the educational portion, guide, hospitality table, demonstrator, helper, etc.
□ Chicago School Board Liaison. Interface with the Chicago School Board to improve chemical education; assist with special teacher programs.
□ Education, Elementary. Assist in promoting science education at the pre-high school level.
□ Education, High School. Prepare and administer annual scholarship examination; arrange teachers conference and other programs connected with teaching high school chemistry.
□ Education, College. Run annual undergraduate student symposium; maintain liaison with ACS Student Affiliates.
□ Education, Continuing. Determine and present programs that keep the practicing chemist informed of recent developments in the various fields of chemistry.
□ Election Tellers. Count election ballots on day of annual Section membership meeting.
□ Employment. Recommend how section can provide employment assistance; initiate new programs; advise applicants with job difficulties.
□ Endowment. Solicit funds for annual scholarship awards; work on drive to establish permanent scholarship fund through individual member contributions.
□ Environment & Laboratory Safety. Study, correlate and publicize matters relating to chemical safety.
□ Gibbs Arrangements: Help the Gibbs Arrangements Chair to secure the award dinner meeting location, plan the menu, order flowers, wine, appetizers, and music, arrange transportation and hotels for the speakers and VIP guests, arrange for publicity and registration.
□ Hospitality. Assist at Section meetings by greeting new members; initiate programs to improve hospitality; handle special parties.
□ House. Secure monthly dinner meeting locations, run the registration table at monthly dinner meetings, secure/run projection equipment at Section meetings; assist in maintaining equipment inventory, etc.
□ Membership. Devise programs for getting new members; advise applicants for membership and investigate qualifications; make recommendations to ACS Admissions Committee.
□ Middle School/Jr. High. Assist Grades 6-9 by providing teaching aids and science related materials.
□ Minority Affairs. Give support and commitment to the development of an action agenda to stimulate and strengthen the participation of all minorities at all levels in chemistry. Devote attention to mentoring, encouragement, and the intellectual and professional enhancement of students, teachers and practicing chemists of all ages and interest levels.
□ Nominating Committee. Help solicit nominations for slate of Section election; assist in preparing slate of candidates.
□ Professional Relations. Investigate member complaints on unethical practices, monitor layoffs, and suggest new programs to improve status of chemists.
□ Project SEED. Become a mentor and/or help find mentors to high school students desiring to do summer research.
□ Program. Establish overall program policy; contact speakers; hospitality to speakers.
□ Public Affairs. For all who are concerned about the interrelation between chemistry and chemists, social responsibilities, government and the environment.
□ Public Relations. Promote the Section's activities to the general public via public media.
□ Younger Chemists Committee. Help current programs and devise new ones of interest to younger chemists; encourage recruiting and retention of younger chemists.

Your Suggestions. How would you like to help?
September 10-13, 2002: The 98th Gulf Coast Conference will take place in Galveston, TX at the Galveston Island Convention Center. For further information, call (281) 319-4646 or send email to GCC@GulfCoastConference.com.

September 20-21, 2002: Dedication of Hull House as a National Chemical Landmark.

September 23-26, 2002: The Chicago Chromatography Discussion Group will offer its annual “Introductory Course in Liquid Chromatography” at Roosevelt University in Schaumburg. Cost is $595. Contact John Fitzloff at 312-996-7366, at fitzloff@uic.edu. or go to http://www.ccdg.org.

September 24-26, 2002: ASTM training course, “Gasoline: Specifications, Testing and Technology” will be held in Chicago. To register or for a free brochure, contact Eileen Finn, ASTM, (610) 832-9686 or visit the ASTM home page at www.astm.org.

September 29-October 2, 2002: The 15th International Ion Chromatography Symposium (IICS 2002) will be held in Baltimore, MD. For additional information, visit the web site at www.icsymposium.com, e-mail century@fiam.net, or call 508-359-8777.

October 8-9, 2002: Human Error Prevention Seminar, Boston, MA. This seminar will also be held on Oct. 22-23, 24-25 & Nov. 7-8 in Toronto, Pittsburgh, & Washington, DC, respectively. For further information, call Ben Marguglio at (845) 265-0123 or e-mail at b.marguglio@att.net.

October 13-17, 2002: The 29th Annual Conference of the Federation of Analytical Chemistry & Spectroscopy Societies will be held in Providence, RI. For more information, go to website http://facss.org.

October 16, 2002: ALMA (Analytical Laboratory Managers Association) will have its 23rd annual conference at the Adam’s Mark Hotel in St. Louis, MO. More information is available at the website www.labmanagers.com.

October 18, 2002: The Chicago Section American Chemical Society’s joint meeting with Northwestern University: Basolo Medal Award Lecture. The general meeting talk will be “Three Avenues in Bioinorganic Chemistry: Cisplatin, Methane Monoxygenase, and Metalloneurochemistry”, Prof. Stephen J. Lippard, MIT, Cambridge, MA. For additional information call the Section Office at (847) 647-8405 or go online at http://membership.acs.org/C/Chicago.

October 19, 2002: A workshop will be presented at Glenbard West High School in Glen Ellyn offering chemical activities high school teachers can do each day of Chemistry Week. Stay tuned for further information as the date approaches.

October 26, 2002: The Chicago Section will celebrate Chemistry Day at UIC.

November 22, 2002: The Chicago Section American Chemical Society and the Public Affairs Committee will host the Stieglitz Lecturer Dr. Pat Gruber, VP and Chief Technology Officer from Cargill-Dow. For additional information call the Section Office at (847) 647-8405.