

OCTOBER • 2007

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 19, 2007

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 at Noyes Street.

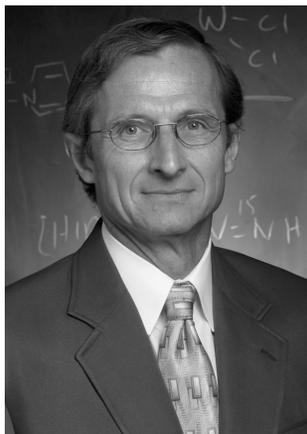
From the west: Take I-88 east to 294 north to Dempster east. Proceed east on Dempster into Evanston. Turn left onto Chicago Ave. and proceed to Sheridan Road. Take Sheridan Road north to the Tech Institute. The Technological Institute is at the intersection of Sheridan Road and Noyes Street in Evanston.

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. Car-pooling is always encouraged.

Lecture room 3 is on the first floor of the Technological Institute and is most easily reached by entering through the main doors facing Sheridan Road. The lecture room is clearly marked and 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.

2007 Fred Basolo Medalist



Dr. Richard R. Schrock, Frederick G. Keyes, Professor of Chemistry, Massachusetts Institute of Technology

Title: "Catalytic Reduction of Dinitrogen to Ammonia at Room Temperature and One Atmosphere with Protons and Electrons"

Abstract: We have been able to reduce dinitrogen selectively and catalytically to ammonia at 1 atm and room temperature with protons and electrons. Reduction takes place at a single molybdenum center that is sterically protected against bimetallic decomposition reactions with meta-terphenyl-substituted triamidoamine ligands such as $[(\text{HIPTNCH}_2\text{CH}_2)_3\text{N}]^{3-}$ where HIPT is hexaisopropyl-metaterphenyl. The reducing equivalents make either ammonia (~60% from dinitrogen) or dihydrogen. All evidence suggests that N_2 is being reduced at a single Mo center in which the oxidation state of the metal varies between Mo(III) and Mo(VI).

(continued on page 2, Column 1)

Dinner Location:

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

DIRECTIONS TO THE RESTAURANT: From the Tech Institute in Evanston: 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 DETAILS, SEE SECTION'S WEBSITE)

PARKING: Free in the lot. Parking is also available at Keeler Avenue and Gross Point Road.

JOB CLUB will meet at Zhivago at **5:30 p.m.**

Reception for Dr. Richard R. Schrock: 6:15 P.M.
Complementary wine, soft drinks, and hors d'oeuvres

(continued on page 2, column 3)

NOTICE TO ILLINOIS TEACHERS

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

(continued from page 1)

Recent studies concern complexes that contain a variety of "Hybrid" ligands, in which only two HIPT groups are present in the ligand, with the third group being a sterically less demanding aryl. Attempts to reduce dinitrogen catalytically led to little or no ammonia being formed from dinitrogen. [(HIPT NCH₂CH₂)₃N]³⁺ complexes of tungsten, chromium, and vanadium all failed to yield any catalytic turnover of dinitrogen to ammonia. Other ligand variations will be discussed as time permits.

Biography: Richard R. Schrock received his Ph.D. degree in inorganic chemistry from Harvard in 1971 under John Osborn. After one year as an NSF postdoctoral fellow at Cambridge University working for Lord Jack Lewis, and three years in Central Research and Development at DuPont in Wilmington Delaware, he moved to M.I.T. in 1975. He became full professor in 1980 and the Frederick G. Keyes Professor of Chemistry in 1989. His interests include the inorganic and organometallic chemistry of high oxidation state, early metal complexes, the chemistry of high oxidation state dinitrogen and related complexes, the controlled polymerization of olefins and acetylenes with alkylidene complexes, and the catalytic reduction of dinitrogen. He has received numerous awards including: ACS Cope Scholar Award (2001), the RSC Centenary Medal (1991), the Sir Geoffrey Wilkinson Medal (2002), the Sir Edward Frankland Prize (2004), the August Wilhelm von Hofmann Medal of the German Chemical Society (2005, with R. H. Grubbs), and the ACS F. Albert Cotton Award in Synthetic Inorganic Chemistry (2006). In 2005 he shared the Nobel Prize in Chemistry with R. H. Grubbs and Y. Chauvin. He has been elected to the American Academy of Arts and Sciences and the National Academy of Sciences. He was Associate Editor of *Organometallics* for eight years, has published more than 460 research papers, and has supervised over 140 Ph.D. students and postdocs.

HAVE YOU MAILED YOUR BALLOT?

Just a reminder that ballots are due in the Section office no later than noon, October 19. They were mailed early September.

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Dinner: **7:15 P.M.**
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://chicagoacs.org) by noon on Tuesday October 16. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

The dinner cost is \$34 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to members who have NOT paid their local section dues and to non-Section members is \$36. The cost to students and unemployed members is \$17. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

APPETIZER COURSE - SERVED FAMILY STYLE: Fresh tomato and mozzarella salad, breads, fire cracker meat rolls with Asian sauce, calamari and fresh vegetables

SOUP COURSE: Cream of Mushroom

DINNER COURSE: Choice of entrée: Beef Brochette (skewered beef tenderloin filet marinated in house marinade and grilled with an array of vegetables), Pork Chop (center cut marinated and baked), Salmon (broiled on a bed of spinach with Sonoma Curtier Russian River Sauce), or Vegetarian Pasta

DESSERT COURSE - SERVED FAMILY STYLE: Assorted pastries and fresh fruit

BEVERAGE: Coffee, Tea, Soft Drinks

General Meeting: **8:30 P.M.**

- Opening remarks and announcements: **Dr. Ken Fivizzani**, Chair, Chicago Section American Chemical Society
- Presentation of the 2007 Basolo Medal: **Dr. Joseph T. Hupp**, Chair, Department of Chemistry, Northwestern University
- Acceptance: **Professor Richard R. Schrock**, 2007 Basolo Medalist for Outstanding Research in Inorganic Chemistry.
- Closing Remarks: **Dr. Ken Fivizzani**

"CHEM SHORTS" For Kids

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

A Chemistry Scavenger Hunt

Kids, tell your teacher that you would like your class to do a chemistry scavenger hunt! These are really popular assignments where students are asked to identify or bring in items that fit a description. Examples of scavenger hunt items are below. Many of these topics have been tackled in our previous 150+ columns. A partial list of possible "answers" for five of the clues is also provided. You can find more at the website below.

First, start with the clues. Find:

1. An element
2. A heterogeneous mixture
3. A homogenous mixture
4. A gas-liquid solution
5. A malleable substance
6. A solid-liquid solution
7. A substance that has a volume of 1 cm³
8. An edible example of a physical change
9. An edible example of a chemical change
10. A pure compound containing ionic bonds
11. A pure compound with covalent bonds
12. A mixture that can be separated by filtration
13. A substance with a density less than 1g/mL
14. A substance with a density more than one
15. An acid
16. A metal
17. A non-metal
18. Immiscible liquids
19. A base with a pH greater than 9
20. A polymer

Sample answers:

1. aluminum foil, copper wire, aluminum can, iron nail
4. soda
5. play-doh or modeling clay
7. sugar cube
8. melting ice cream

References: Anne Marie Helmenstine at <http://chemistry.about.com/od/chemistry101/a/scavenger.htm>

Edited by K. A. Carrado, Argonne National Laboratory

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

2007 ACCA LECTURE SERIES ON COSMETIC CHEMISTRY

Again this year, the Associated Colleges of the Chicago Area (ACCA) is sponsoring a series of chemistry lectures, and graduate credit is being offered by Olivet Nazarene University. This year, the topic is cosmetic chemistry. Each of these lectures will be at 7:00-9:00 PM on ten consecutive Tuesday nights, starting September 11 and ending on November 13, in Birck Hall of Science, Room 112, Benedictine University. All interested persons are welcome to attend, whether expecting to earn graduate credit, or not.

Those wanting graduate credit should contact Dr. Douglas Armstrong, Olivet Nazarene University, 815-939-5393, or via e-mail at darmstrg@olivet.edu. He will let you know the names of the speakers, the titles of their presentations, and other info. Even if you find out about this after Sept. 11, you may still be able to earn graduate credit.

October, 2007 Vol. 94, No. 8. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor; Fran Kravitz, Associate Editor; Fadwa Al-Taher and Richard Trep-tow, Proofreaders; Frank Jarzembowski, Publications Business Manager. Address: 7173 North Austin, Niles, Illinois 60714; 847/647-8405. Subscription rates: \$15 per year. Frequency: monthly-September through June.

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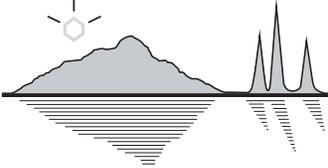
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- The BrokeScholar scholarship search engine — connect with over 650,000 available awards and have your profile matched to the ones that are right for you
- The Student Loan Consolidation Program for postgraduate education debt management options

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REPORT OF COUNCIL MEETING HELD AT THE FALL NATIONAL ACS MEETING

The 234th National Meeting of the ACS was held in Boston, MA from August 19-23, 2007. The Chicago section was represented by eleven councilors and one alternate councilor. The councilors who attended for the section were: Cherlyn Bradley (Committee on Committees), Charles Cannon (Committee on Economic and Professional Affairs), Mark Cesa (Committee on Chemical Safety), Dave Crumrine (Committee on Chemical Safety), Herb Golinkin, Russell Johnson (Committee on Public Relations and Communications), Fran Kravitz (Committee on Economic and Professional Affairs), Milt Levenberg, Claude Lucchesi (Committee on Chemistry and Public Affairs), Barbara Moriarty (Divisional Activities Committee) and Susan Shih. The alternate councilor representing the section was Ken Fivizzani (Committee on Chemical Safety). You will notice that I have also listed national committee assignments so that you know additional ways our councilors and alternate councilor represent the section.

The council recognized Seymour Patinkin for his 30 years of service as a councilor and the council recognized Cherlyn Bradley for her 15 years of service. The council also recognized Fran Kravitz for her service on the Committee on Economic and Professional Affairs.

Finances: The Committee on Budget and Finance reported that the Society is expected to end 2007 with a net contribution from operations of \$7.5 million, which is expected to be \$139,000 favorable to the approved budget.

Governance: The council selected members for the Committee on Nominations and Elections, the Committee on Committees and the Council Policy Committee for 2008-2010. None of the Chicago Section councilors were running for election, and so no one from the section was elected.

The Council VOTED to continue the Committee on Nomenclature, Terminology and Symbols. The Council also VOTED to support the request of the Committee on Chemists with Disabilities that its status be changed from an "other committee" of the Board to a joint Board-Council Committee. The Council VOTED to change the acronym for Project SEED and to amend its charge. The acronym SEED now will stand for "Summer Experiences for the Economically Disadvantaged."

The Governance Review Task Force held a summit to discuss ACS Committee structure in July. Based on this meeting, a report was prepared with a number of future actions, which have been directed to the appropriate committees. Because the work of this task force is completed, the Council Policy Committee voted to discharge the task force, subject to concurrence by the Board of Directors.

The Council VOTED to accept the petition on Local Section Affiliations.

Meetings and Expositions: The 234th ACS national meeting attracted 15,344 registrants as of August 21, 2007. This included 3,518 students or 22.9% of the total. The Committee on Meetings and Expositions reported that the Chicago meeting scheduled for 2011 has been moved to Denver, CO. The explanation for this action was that there were a lot of negative comments on the logistics of the Chicago meeting. The committee chair reported that a survey was done on randomly selected registrants for the meeting, which validated the meeting logistics problems. While Chicago section councilors expressed concerns about the manner in which the survey was performed and the impact on students (the percentage of students attending the Chicago meeting was 34.8% of the total registrants), the meeting has still been moved. In addition, due to construction delays on the convention center in New York city, the committee has recommended that this meeting be moved to Philadelphia, PA, with a change in dates, subject to Board approval. The Committee also approved an increase of ten dollars for the 2008 national meetings advanced registration fees. Please contact me if you are concerned about the move of the Chicago meeting to Denver. While I do not think that there is anything we can do, I do think that we should express our concerns.

Economic and Professional Affairs: As of the end of Tuesday, there were 1520 job seekers at Chemjobs Career Center and 911 posted positions available from 126 employers. The latest revision of the Academic Professional Guidelines was presented for comment. If you re interested in these proposed guidelines, contact Fran Kravitz. Comments from members are due to Bruce Millar at b_millar@acs.org before November 30, 2007.

Membership: The Committee on Membership Affairs reported that the total membership is 1,100 ahead of where membership was last July, while the number of unpaid memberships is less than this time a year ago.

Special Discussion Topic – ACS Policy Development and Advocacy Efforts: The discussion focused on how ACS develops policy statements and their advocacy efforts. The discussion focused on three questions: 1) How can ACS encourage more members to participate by bringing their expertise to the development of more targeted policy positions, 2) What can ACS do to increase member involvement in public policy advocacy and 3) How can ACS be a more effective leader in policy activities in the broader science and technology communities? One of the messages that I heard was the impact of the Legislative Action Network (LAN), a free Web-based legislative action tool.. Since January 2006, LAN members have sent 15,183 letters to George Bush, the senators and our representatives in the US House of Representatives. These letters helped in the passage of the America Competes Act, signed on August 9, 2007. This act authorizes \$43.3 billion over three years for R&D and science education. If you are not a LAN member, please join. Also, if you know others who are not ACS members, encourage them to join.

If you have any questions and/or comments about the above actions, please contact me by email (bmoriarty@nalco.com).

BARBARA MORIARTY

COME TO CHEMISTRY DAY!

Chemistry Day will be at the Illinois Institute of Technology, McCormick Tribune Campus Center, on Saturday, October 20 from 9:30am to 3pm. The theme this year is "The Many Faces of Chemistry". We have a full slate of activities of many different kinds. Children, older students, and adults 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, government agencies, and the local section will show and tell what chemists do.

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 and/or a Merit Badge.

For the most up-to-date information on the Chemistry Day activities, visit the Section's web site (www.chicagoacs.org) and plan to join us.

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, who passed away earlier this year, was internationally recognized for his original contributions to the syntheses and reaction mechanisms of transition-metal Werner complexes. He also did innovative work in the developing fields of organometallic and bioinorganic chemistry.

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

Among his numerous awards were the 1996 Chicago Section Willard Gibbs Medal and the ACS 2001 Priestly Medal. As part of his huge contribution to chemistry, Fred Basolo served on numerous ACS editorial boards, launched the ACS journal *Inorganic Chemistry* in 1962 and held various ACS offices. He was elected to and served as National ACS President in 1983. For further information see www.fredbasolo.com. The ACS Chicago Section is proud to have had Fred Basolo as a member.

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
Malcolm H. Chisholm	2004
John E. Bercaw	2005
Ivano Bertini	2006

NEXT ISSUE
will be for
November 16
Education Night

MESSAGE FROM THE CHAIR

In July, our Board of Directors learned that, following the Spring National Meeting in Chicago, the ACS Meetings and Expositions (M&E) Committee recommended and the ACS Board of Directors quickly approved moving the Fall 2011 National Meeting from Chicago to Denver. Factors cited as reasons for the move included logistical problems, such as busing out to McCormick Place, difficulties in "navigating" McCormick Place, and high labor costs. I have asked M&E for more information about this decision. I believe it would be a serious mistake if Chicago were to be totally removed from consideration as a site for future national meetings. Chicago remains the best geographic location for members in the Midwest and Central Plains states. Most attendees from all metropolitan areas of the United States can fly direct (or drive) to Chicago at a reasonable cost in half a day if the air traffic is functioning at a normal level; this can also save those on each coast from an extra night's hotel cost. I must emphasize to the volunteers of the ACS Chicago Section that this decision was not caused by any actions or lack of action on our part. Thanks for all that you did to make the Chicago National Meeting such a success!

The Chicago Section 2007 elections are in progress; the Nominations Committee and the Board have put together a strong list of candidates. If you have not already done so, cast your vote for the candidates of your choice; every vote is important.

Our October section meeting will be on Friday, October 19. This will be the 17th ACS Basolo Medal Lecture, co-sponsored by the Chicago Section and the Department of Chemistry at Northwestern University. The recipient of the 2007 Fred Basolo Medal is Professor Richard Schrock from MIT. His research interests are in synthetic and mechanistic organotransition metal and inorganic chemistry, catalysis, and polymers. See the front page of this issue for meeting details. Please join us for this annual recognition of outstanding research by an inorganic chemist.

Chemistry Day is on Saturday, October 20. We still need volunteers for our program that day. Check the section website for details on these events and other section activities.

KEN FIVIZZANI

DEATH NOTICE

Joe Matt, longtime ACS and Chicago Chemists' Club member, passed away Monday, August 13, in Iowa.

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OCTOBER HISTORICAL EVENTS IN CHEMISTRY

October 1, 1867 Wilder D. Bancroft, a researcher in electrochemistry was born. He was the founder and editor of the *Journal of Physical Chemistry* and served as editor from 1896 to 1932 as well as President of ACS in 1910. He made the first systematic study of oxidation cells.

October 2, 1907 One hundred years ago, Alexander R. Todd was born. He did research in the chemistry of nucleotides and coenzymes and received the Nobel Prize in Chemistry in 1957 for synthesizing nucleic acids.

October 5, 1861 The Chemical Society of Union College, the precursor of the American Chemical Society, was founded.

October 6, 1807 Two hundred years

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(continued from page 5)

ago, Humphry Davy at the Royal Institution isolated potassium.

October 8, 1883 Otto H. Warburg, a researcher on respiration and cancer, was born. In 1931, he was awarded the Nobel Prize in Physiology and Medicine for his discovery of the nature and mode of action of the respiratory enzyme.

October 9, 1852 Emil H. Fischer, who synthesized sugars, caffeine, uric acid, and many other chemicals was born. He received the Nobel Prize in 1902 in recognition of the extraordinary services he rendered by his work on sugar and purine syntheses. He introduced projection formulas for spatial arrangements of group around chiral carbon atoms, which are known as Fischer projections.

October 12, 1865 Vladimir A. Kistiakowsky, a researcher in electrochemistry and thermodynamics, was born.

October 14, 1898 John M. Gulland, who did research on DNA, was born. He also used electrometric titration to prove existence of hydrogen bonds and studied the titration of phosphoric acid.

October 16, 1875 Henry C. Sherman, who was a researcher on vitamins, was born.

October 18, 1912 The chemical company, Hercules, was incorporated.

October 21, 1803 John Dalton presented the first experimental evidence for atoms before the Manchester Literary & Philosophical Society.

October 23, Any Year Mole Day, 6.02 a.m. through 6.02 p.m. (Mole time); Mole Moment: 50.453 secs after 6.42 p.m. (Visit www.moleday.org)

October 24, 1877 Roger Clark Wells, who did research on sodium compounds and chemical analyses of radioactive minerals, was born. He served as the Chief Chemist of U. S. Geological Survey.

October 25, 1891 Edgar C. Britton, who contributed to industrial organic developments, was born.

October 29, 1923 Carl Djerassi, a researcher in structure elucidation of natural products, was born. He synthesized medicinals, and applied computer artificial intelligence to chemical problems. In addition, he writes novels and plays.

October 30, 1906 Max Tishler, an industrial chemist who developed antibiotics, including actinomycin and streptomycin, and synthesized vitamin A and riboflavin, was born.

Submitted by DR. LEOPOLD MAY, The Catholic University of America, Washington, DC

JOB CLUB

The next meeting of the Chicago Section ACS Job Club will be held on **Friday, October 19** at 5:30 p.m. at Zhivago Restaurant. The meeting will include a review and discussion of some of the tools that a chemist can use to conduct a job search.

The Job Club provides a continuing opportunity for unemployed members of the Section to meet with one another, share their experiences and develop a network that may help in identifying employment opportunities. Bring plenty of resumes and business cards to distribute to your colleagues. Be prepared to talk about the kind of job you are seeking.

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group has critiqued some individual resumes and made suggestions for improvements in a positive way!

The Job Club is also for employers seeking chemists. Employers need to be prepared to describe the positions to be filled and requirements for these positions.

Should you wish to attend the Section's dinner meeting following the Job Club, the cost is \$17 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

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

SECTION DUES

Members are urged to pay the \$15 Section dues when you get your annual ACS membership dues statement. The Section needs this revenue to help support its activities.

CHICAGO SECTION SLATE FOR 2007 BALLOT

The following slate of candidates was put together by the Nominating Committee for the 2007 Section Election. New officers will take office January 2008. Ballots have been mailed and are due in the Section office by noon on October 19. The results of the election will be announced at the October 19 dinner meeting.

CHAIR

Amber Arzadon
Charles Cannon

VICE-CHAIR

Avrom Litin
Herb Golinkin

TREASURER

Stan Seelig
Paul Young

SECRETARY

Mark Kaiser

DIRECTORS

Cherlyn Bradley
Thomas King
Laura Li
Barbara Moriarty
Eileen Sheu
Milt Levenberg
Sharon Northup
Fran K. Kravitz
Margaret Stowell Levenberg

COUNCILORS

Cherlyn Bradley*
Kenneth Fivizzani
Russell Johnson*
Barbara Moriarty*

ALTERNATE COUNCILORS

Amber Arzadon
Irene Cesa
Richard Cornell
Thomas Higgins
Frank Jarzembowski*
Avrom Litin
Margaret Stowell Levenberg*
Paul Young*
Robin Zavod

* Incumbents

If you have not received the section's election ballot, please call the section office.

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 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: Chemical Abstracts Service, Community Activities, Chemist with Disabilities, Chemistry and Public Affairs, Environmental Improvement, International Activities, Professional Training, Publications, Patents and

Related Matters, Public Relations and Communications, Science, Minority Affairs, Chemical Safety, Women Chemists, and Younger Chemists; 4) Other Committees of the Council: Admissions, Analytical Reagents, Ethics, Nomenclature, Project SEED, and Technician Affairs; and 5) Elected Committees: Council Policy, Nominations and Elections, and Committee on Committees.

The Chicago Section is currently represented by 14 councilors elected by you. Most of these councilors are active members (or associates) on National ACS committees. Your Chicago Section Councilors and their current committee appointments are: **Roy H. Bible**, **Cherlynlavaughn Bradley** (Committee on Committees), **Charles E. Cannon** (Economic and Professional Affairs), **Mark C. Cesa** (Chemical Safety), **David S. Crumrine** (Chemical Safety), **Herbert Golinkin**, **Russell W. Johnson** (Chair, Public Relations and Communications), **Fran K. Kravitz** (Economic and Professional Affairs; liaison to Technician Affairs), **Milt Levenberg**, **Claude A. Lucchesi** (Chemistry and Public Affairs), **Barbara E. Moriarty** (Divisional Activities), **Seymour H. Patinkin**, **Marsha A. Phillips** (Nomenclature, Terminology and Symbols, Chemical Safety), and **Susan Shih**.

Alternate Councilors for the Chicago Section are: **Fran Clifton**, **Ken Fivizzano** (Chemical Safety), **Inessa Gorelik**, **Frank Jarzembowski**, **Keith KostECKA**, **Margaret S. Levenberg**, **Peter Lykos**, **Mary Newberg**, **Fred Turner**, and **Paul Young**.

Some of our Councilors are also 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." **Cherlynlavaughn Bradley** chairs the Diversity subcommittee of the Committee on Committees and is a liaison to the Joint Subcommittee on Diversity. **Fran Kravitz** and **Charles Cannon** are career consultants who do resume reviews during each National meeting.

Some of our noncouncilor section members are also involved in the National meetings. **James P. Shoffner**, Ex Officio, is a consultant to the Education and Minority Affairs Committees. **Zafra Lerman** is a consultant and a subcommittee chair of the International Activities Committee and a consultant of 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

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!

CHICAGO SECTION MEMBERS CONNECT CHEMISTRY TO CONGRESS

It takes a lot of steps to visit our legislators. According to Claude Lucchesi's pedometer, it took over 15,000 steps (about 7.5 miles) to see the eight legislators assigned to them by CCPA (Committee on Chemistry and Public Affairs) on 25 April. Altogether, Zafra Lerman and Claude Lucchesi, along with 36 other ACS members (including ACS officers and members of Board of Directors) visited over 50 Congressmen and Senators to bring them the ACS message about the importance of basic energy research in the physical sciences and the importance of math and science education. This 2007 effort was an extension of our 2006 message on "alternative energy" that President Bush delivered in his 2006 State of the Union message on competitiveness and innovation. As fate would have it, as ACS members were meeting with policy makers on the Hill, the House and Senate passed a number of Bills designed to enhance American leadership in basic science and math education.

The day of our visit to the Hill was packed with activity. At breakfast, before starting the visits with our legislators, Representative Sherman Boehler (retired) fired up the ACS members with an inspiring talk to send us off on our mission. In the evening after the visits we attended the ACS Public Service Awards ceremony in which Ralph Cicerone (National Academy of Sciences), Ruben Hinojosa (D-TX), and David Hobson (R-OH) were the recipients.

The Hill visit is a four-day commitment (Monday thru Thursday). On Monday evening we hear reports from ACS Fellows who are attached to legislative offices to represent ACS and to help

(continued on page 8, column 3)

NATIONAL CHEMISTRY DAY AT IIT

We are pleased to announce that IIT will be the host for this year's National Chemistry Day (NCD) program being organized by the Chicago Section of the American Chemical Society. This year marks the 20th anniversary of this annual ACS nation wide celebration. The event is scheduled for Saturday, 20 October 2007, primarily at IIT's MTCC, and its target audience is junior high and senior high school students. A special treat this year will be recognition of the 100th anniversary of the Boy Scouts of America and provision has been made for Boy Scouts to earn the merit badge in Chemistry in conjunction with NCD at IIT.

The number of possible attendees far surpasses the capacity of any single venue in metro Chicago. Accordingly, other organizations with an interest in Chemistry may wish to participate in order to "learn the ropes" and to consider mounting their own locally focused NCD celebrations in order to expand the impact of this national American Chemical Society initiative in metro Chicago that follows Mayor Daley's Science Week earlier in October.

As lead times for publication of articles in the *Chemical Bulletin* are substantially in advance of the event, we do not have at this time (mid August 07) the detailed program for NCD at IIT. However, by the time this piece will have appeared in print, the detailed program should be available at the Chicago Section website: chicagoacs.org.

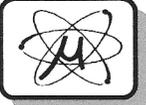
In addition to the substantial multi component program being arranged by the Chicago Section (lectures, workshops, demonstrations and industrial displays) and a special workshop by IIT on constructing and calibrating student built spectrometers, please know that IIT is the home of architecturally distinctive buildings that are visited frequently by tour groups from all over the USA and abroad. Accordingly, parents and friends of participating students may be interested in coming along to not only sample the chemistry-focused activity but to see as well the architectural delights on the IIT campus designed by the internationally recognized Mies van der Rohe, Rem Koolhaas and Helmut Jahn.

IIT is well located with respect to transportation options. IIT is served by the Green and Red Lines as well as Lake Shore Drive and the Dan Ryan Expressway. US Cellular Park is adjacent to and immediately southwest of IIT's main campus and Chinatown, with its many restaurants and shops, is adjacent to and immediately northwest of

IIT's main campus. Parking is available on campus as well as street parking immediately north on State Street. Visit IIT's website for more information about its main campus (www.iit.edu).

PETER LYKOS, IIT

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



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ACS NATIONAL WEBSITE LAUNCH

Have you tried to find something on the national ACS's web page and gotten frustrated that you couldn't find it or been misdirected. You are not alone. The national ACS announced that they have redesigned their website from the ground up. This new website went live on September 30, 2007. The URL for the website is acs.org, persons who have the ACS national website bookmarked at chemistry.org will be redirected. The team that redesigned the web presence had the following ten goals in mind:

1. Consistent, global navigation
2. Unified look and feel
3. Ten comprehensive categories
4. Member-focused
5. Homepage highlights – news research, events
6. Comprehensive search
7. Easier to read
8. Faster access
9. One stop for help and
10. User tested and approve

Members tested the website in Chicago and had a chance to work with the website in Boston. They used the following attributes in describing the new web presence: progressive, trustworthy, reliable, relevant, popular, objective, timely networking, giving, influential, inclusive, changing and admired. I hope that you will use this website and find it easy to find items.

BARB MORIARTY

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the staffs of Representatives and Senators resolve issues involving science in the legislation being considered. CCPA supports three Fellows. On Tuesday we prepared for the Hill visits at ACS Headquarters by viewing footage of House consideration of science and math education issues that was broadcast via C-SPAN. Wednesday is the visit to the Hill, and on Thursday we return to Chicago.

It is interesting to note that much of our efforts came to fruition in August when the Congress overwhelmingly passed milestone legislation to bolster US innovation and foster our global competitiveness. The Bill is the America COMPETES Act, and it brought together pieces of legislation dealing with federal research and development as well as science, technology, engineering and math (STEM) education into a comprehensive Bill. A summary of the Bill can be found at <http://science.house.gov/press/PRArticle.aspx?NewsID=1941>.

CCPA is responsible for advice and recommendations for ACS action on public policy matters involving the chemical sciences and technologies. The biggest US problem in the near future is the lack of educated scientists and engineers. For every US chemist or engineer, China produces five and India produces eleven. For the US (and for the World), the "mother" of all problems is energy.

Brad Smith of CCPA led the Chicago team, and he contributed to this report. Anyone wishing to participate in future Capitol Hill visits should contact Brad at b-smith@acs.org.

CLAUDE LUCCHESI

WCC COLUMN

Members of the Chicago Section's Women Chemists Committee (WCC) are developing outreach plans for Chicago Area section members and the community. These plans include a column in *The Chemical Bulletin* covering topics such as networking, career development, and vignettes of women in chemistry. This month's topic is about **Dr. Ann Nalley**.

Dr. Ann Nalley is currently a Professor of Chemistry in the Physical Science Department at Cameron University, in Lawton, Oklahoma, a position that she has held since 1969. Before coming to Cameron she taught high school chemistry and mathematics at Muskogee High School. She has held positions as a visiting scientist or professor in the Chemistry Departments at the University of Oklahoma and the University of Texas at Dallas, and the Polymer Science Department at the University of Southern Mississippi. She earned a Bachelor of Science Degree at Northeastern Oklahoma State University, a Master's Degree in Analytical Chemistry at Oklahoma State University, and a Ph.D. in Radiation Chemistry from Texas Woman's University. Her research includes new product development and solving industrial problems in the area of cosmetic analysis, nanostructural materials, applied research in the petroleum industry and molecular modeling.

Dr. Nalley states that she started school in a one-room schoolhouse (only 13 students in all eight grades) and read a book on Marie Curie. This inspired her to want to study science. Ann was also good in mathematics and enjoyed being competitive in the math contests each week. When there are only 13 students in school you compete with all eight grades. She attended that school for four years and then it closed. Later when she was attending a larger school with 120 students in all eight grades and found she still enjoyed the competition. In her junior year in High School Ann was the state champion in chemistry. She was a high school junior in 1958 and was chosen to attend a summer research camp at the Oklahoma State University to interest high school students (20 boys and 6 girls) in science. There were not many girls in those days. When Ann entered Oklahoma State University she started in chemical engineering, but soon Ann switched to chemistry. She has always had an interest in science and she enjoys competing with men! She transferred to Northeastern to complete a degree in chemistry with an education emphasis so that she could teach. She taught one year of high school and then returned to graduate school at OSU.

When asked why she entered chemical

education, Dr. Nalley replied, "I tried to go into industry in 1969 and I sent out 40 resumes and when I still did not have a job one of my advisors said, "Why not apply to Cameron? He called the department chairman in the physical science department at Cameron. I knew the chairman since I had taught an organic lab at OSU in which he was enrolled as a student and I was hired after a telephone interview."

When asked why she feels that women should be in the field of chemistry she replied "Women are an important part of our world. We think differently and have a different approach to problem solving. In today's world we need all views and approaches." When Dr. Nalley began on the Board of Directors of the ACS she stated that her goal was to have women occupy 50% of the positions. Today the women occupy 10 of the 16 positions. Now the men are complaining that they need parity and this is not fair!

When asked where she views chemistry going she replied, "Chemistry is going overseas. Our industry is moving overseas. This is scary! As a nation we should keep chemistry in the United States and continue to have this country the center of Research and Development for the world!" When asked about the discipline of chemistry she stated, "chemistry is moving into biology or the biology major now needs more chemistry to understand biology." She also observes the overlap between nanotechnology and chemistry and the physics discipline. "We used to be called scientists. Then we used our discipline labels. Now we are all becoming scientists again. Science has become cross disciplinary and interdisciplinary"

Dr. Nalley's activities in the American Chemical Society have earned her recognition at the National level. She served as National President of the ACS in 2006 and has been a director for seven years from Region V. Ann Nalley has held a number of other positions in the ACS in her local section and also in the Division of Professional Relations and 12 national committees or taskforces. In 1992, she was honored by the five sections of the ACS as the Oklahoma Chemist of the Year. She was the first and only woman to be so honored. In 1996, she was honored at the National Meeting of the ACS in New Orleans when she was presented with the Division of Professional Relations Henry Hill Award for Outstanding Contributions to Profes-

sionalism. She has served as a Councilor for more than 25 years. She also served four years on the National Board of the American Institute of Chemists as a Director-At-Large; a term she completed in 1996. She is the first woman to be appointed to PACIFICHEM. She was the lead organizer on an international symposium presented at the 2005 PACIFICHEM entitled, "Women Past, Present, and Future." She has organized or co-organized over 35 symposia at National and Regional ACS meetings on professional issues most of which have been directed toward women's issues.

Dr. Nalley served on the Board of Directors of the Honor Society of Phi Kappa Phi (the largest and most prestigious multidisciplinary honor society) for 21 years; She served in the positions of Regent, National Vice President, President-Elect and National President. She has chaired or served on numerous local and National Phi Kappa Phi Committees.

Her honors at the national, state and local campus level are numerous: These awards include: named the Oklahoma State Science Teacher of the Year by the Oklahoma State Teacher's Association in 2001, Texas Woman's University Distinguished Alumnae Award in 1998, Cameron University Professor of the year in 1995, Cameron University Advisor of the year in 1993; and in 1996, Dr. Nalley received the Cameron University Distinguished Service Award (the highest award given by the University). She is the first and only faculty member to receive this award. In 2005 she was named the Violet Diller Professional Excellence Award recipient by Iota Sigma Pi. She is listed in several *Who's Who* publications and *American Men and Women in Science*, and *Who's Who in Science and Engineering*. She is a member of Sigma Xi, Sigma Pi Sigma, Phi Delta Kappa, Iota Sigma Pi, American Association for the Advancement of Science, American Association for University Women, American Institute of Chemists, and four divisions of the American Chemical Society.

Ann Nalley stated, "Success is enjoying what you do and being happy in what you do." She is not ready to retire. She still enjoys taking Magic Shows to elementary schools with her students. She loves involving her student. She reports that she is now teaching some third generation students. She also enjoys spreading the word about chemistry, even taking bottles of hand lotion to state representatives to make the point about the importance of science in our lives.

Dr. Nalley summarizes her career as a teacher as "Each day as I teach my students, I touch the future!" She also added, "When you teach students what to learn, you prepare them for today;



Visit the
Chicago Section

<http://membership.acs.org/C/Chicago>

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when you teach students how to learn, you prepare them for the future!"

In her spare time, Dr. Nalley finds time to maintain a pet refuge for over 40 displaced or deserted animals. Her advice for all female chemists is to choose a supportive husband. She proudly reported that her husband has supported her career, her travels and tolerated all of her many professional activities. She stated that after the ACS Board she is looking forward to being a good grandmother for her two grandsons and enjoying her attorney son and her biology teacher daughter-in-law.

ANNE T. SHERREN

ACS Fellowship Program

Each year the ACS selects two or three public policy fellows. Congressional fellows work a year for a member of Congress or congressional committee, whereas the science policy fellow works in the ACS Office of Legislative and Government Affairs for one or two years.

Congressional fellows begin in September with a two-week orientation program organized by the American Association for the Advancement Science. Following orientation, they search for placements in offices on Capitol Hill for the remainder of the year.

ACS fellows gain first-hand experience with policymaking for science, federal research funding, regulatory rule making, and the impact of science on decision-making. They also offer scientific and technical expertise to the government and forge links between the scientific and government communities.

The congressional and science policy fellowships have had much success in bringing sound science advice to congressional offices. In fact, a third of all ACS fellows continue to work in the scientific and policymaking communities after their fellowships.

ACS is currently encouraging experienced chemical professionals and recent Ph.D. graduates to apply for the 2008-2009 fellowships. The application deadline is December 31, 2007. If you have any questions about the program or would like to contact former fellows, please contact the ACS Office of Legislative and Government Affairs at (202) 872-4386, or congfellow@acs.org.

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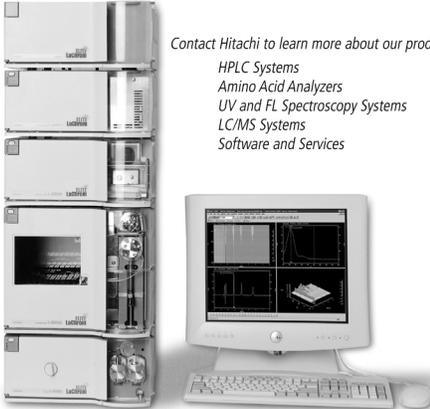
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Illinois State Fair Project a Success!

We had another great success with the joint project at the Illinois State Fair August 10-19. This was our fourth year having a tent there. There were 40 volunteers covering the time from the pre-Fair tent set-up through the actual 10 days of the Fair. Volunteers included members of 10 of the Illinois sections (Chicago, Decatur-Springfield, East Central Illinois, Heartland, Illinois-Iowa, Joliet, Mark Twain, Rock River, Southern Illinois, and St. Louis).

In spite of the 99°F+ heat on most days that affected overall Fair attendance, we saw over 10,900 people come through the tent during the Fair, including 360 teachers who signed-up and received teachers' bags. This year we distributed hand fans as the main give-away throughout each day (it's hot during the State Fair!). Still a popular item for the teachers, a stuffed toy mole was given each day to the first teacher that signed in to receive a special teacher's bag. We also had two computers set up, one with the science quiz and the other one for teacher registration and visitor survey.

A big thank-you to our section's volunteers who worked diligently this summer to make our "chemistry tent" project a real attraction at the State Fair.

Our Chicago Section's volunteers this year were Amber Arzadon, Lambert Arzadon, Richard Boice, Melinda Boice, Cherlyn Bradley, Charles Cannon, Morris Dalton, Steven Edelman, Ken Fivazzani, Carmine Greene, Marilyn Kouba (our volunteers coordinator), Fran Kravitz, Milt Levenberg, Margaret Levenberg, Avrom Litin, Mary Newberg, Steve Newberg, Woonkie Paik, Stan Seelig, Marcy Seelig, and Paul Young.

Also, a big thank-you to all our sponsors: Abbott Fund, Robert Banzuly, BP, Chicago section, East Central Illinois section, Illinois-Iowa section, Ingredient Source Corp., NorthStar Credit Union, Northup RTS, Rock River section, Wizardcraft. Contributors of materials and/or talent included ACS National, American Chemistry Council, Avrom Litin, BP Volunteers-Naperville chapter, Chemical

Heritage Foundation, Continental Cement, Dan Edelman and Fran Kravitz, Flinn Scientific, IL Dept. of Natural Resources, Illinois Heartland section, Illinois State University-Dept. of Chemistry, John Burke, Richard Cornell.

We are already planning for next year. The planning committee's wrap-up meeting will be scheduled before the end of the year.

For further information about this project, including a description of some of the demonstrations, go to <http://membership.acs.org/c/chicago/statefair/index.html>

FRAN KRAVITZ AND CHERLYN BRADLEY
CO-CHAIRS, IL STATE FAIR CO-OP PROJECT

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CALENDAR

October 2 — November 13: Associated Colleges of the Chicago Area (ACCA) hosts a series of lectures on cosmetic chemistry Tuesdays from 7-9 p.m. at Benedictine University in Lisle; Birck Hall of Science, Rm 112. Call (815) 939-5393 or email darmstrg@olivet.edu for details. **See also information in this issue.**

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

October 11: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

October 19: Basolo Medal Award joint dinner meeting of the Chicago Section ACS and Northwestern University. **See details in this issue.**

October 20: Chemistry Day, IIT. Call the section office at (847) 647-8405 for more information and visit www.chicagoacs.org.

October 22-23: The 2007 Welch Conference on Chemical Research, "Physical Biology – From Atoms to Cells," Hilton Houston North (formerly the Wyndham Greenspoint Hotel), Houston, TX. To register for the conference or to review a complete program, visit www.welch1.org/ChemicalConference/, or call Carla Atmar at (713) 439-7813.

October 30 - November 1: 2007: CHEM SHOW featuring the latest equipment, technologies, trends and materials for the chemical process industries from leading manufacturers worldwide will be held in New York City, Jacob K. Javits Convention Center. For further information, visit the CHEM SHOW web site at www.chemshow.com for complete information or contact Show Manager Mark Stevens at the International Exposition Company [(203) 221-9232, ext. 14 or mstevens@iecshows.com].

November 7-10: ACS Midwest Regional Meeting, Intercontinental Hotel, Country Club Plaza, Kansas City, MO. For further information, go to <http://membership.acs.org/m/mwrm2007>

November 8: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

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

November 29: Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at (847) 647-8405.

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

DID YOU KNOW?

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