

theCHEMICALbulletin

OCTOBER • 2001

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, 2001

BASOLO MEDAL LECTURE LOCATION:

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

DIRECTIONS TO THE TECH INSTITUTE:

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

To those attending the Basolo Medal lecture, parking after 4:00 P.M. is available in the lot across from the Technological Institute at the corner of Noyes Street and Sheridan Road. Parking is also available on the side streets just west of this lot—however, observe the posted signs. 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. - 5:45 P.M.

The Medalist Lecture is open to the

public and admission is free to all those wishing to attend.



**M. Frederick Hawthorne, University
Professor of Chemistry,
University of California (UCLA), Los
Angeles, California**

**Title: Polyhedral Boranes and
Organoboron Chemistry of the
Second Kind**

Abstract:

The element boron neighbors carbon in the periodic table, exists in plentiful supply throughout the Universe and reaches a long arm across the periodic table in order to form stable compounds with a wide variety of other ele-

ments. The most important chemical property shared by carbon and boron is the ability of both these elements to form large families of discrete structures by bonding to themselves. Thus, boron forms stable bonds to other boron atoms and carbon displays the same behavior while creating organic chemistry. Advances made during the past fifty years have now established polyhedral borane chemistry at a level of maturity capable of supporting an ever-increasing scope of aromatic polyhedral structures having extraordinary chemical, thermal and photochemical stabilities. Such properties provide unique applications not possible with other elements, including carbon. While borane and hydrocarbon derivatives share many related structural features and functions, borane species are not attacked by enzyme systems and are resistant to biodegradation. Another unique feature of boron is its isotopic distribution as ^{10}B (20%) and ^{11}B (80%) accompanied by the very great propensity of ^{10}B to capture a slow neutron and fission to cytotoxic ^4He and ^7Li nuclei while liberating about 2.4 MeV of kinetic energy and an 0.5 MeV γ -photon (the boron neutron capture reaction). This nuclear reaction may find applications in cancer and rheumatoid arthritis therapy.

(continued on page 2)

NOTICE TO ILLINOIS TEACHERS

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

The Basolo Lecture will demonstrate the parallelism of boron and carbon chemistries and new fundamental discoveries at the boron-carbon interface. Applications of this new field of organometallic chemistry include: (1) nanotechnology and molecular recognition; (2) anion complexation, supramolecular chemistry and electrophilic catalysis; (3) hyperfunctionalized polyhedral boranes, such as icosahedral $[B_{12}(OCOR)_{12}]^{2-}$ and $[B_{12}(OR)_{12}]^{2-}$, known as closomers and useful in many applications; (4) cell-selective species for drug delivery and targeting cell nuclei; (5) new pharmacophore structures for drug discovery; (6) catabolism-resistant radionuclide carriers for diagnosis and therapy of disease; (7) non-coordinating anions for remediation of radioactive waste and (8) cell-selective, non-toxic boron-rich neutron target compounds for boron neutron capture therapy of cancer.

Biography:

M. Frederick Hawthorne was born in 1928 in Kansas and received his early education in Kansas and Missouri. After three years at the Missouri School of Mines and Metallurgy, Rolla, Missouri as a chemical engineering student, Professor Hawthorne transferred to Pomona College in Claremont, CA and received his B.A. in chemistry in 1949. He received his Ph.D. in organic chemistry from the University of California, Los Angeles in 1953. He then served as a postdoctoral associate (physical-organic chemistry) at Iowa State University, Ames, Iowa. He was at the Rohm and Haas Company, where he launched his career in borane cluster chemistry, from 1954 until 1962. In the fall of 1960, he served as a Visiting Lecturer in physical-organic chemistry at Harvard University. In 1962, Dr. Hawthorne became a full professor at the University of California, Riverside and transferred to UCLA in 1969. In 1998 he was appointed University Professor of Chemistry, the most distinguished title bestowed upon faculty by the Regents of the University of California. Dr. Hawthorne joins nineteen colleagues sharing this title university-wide. Dr. Hawthorne is the author or co-author of more than 480 research papers, 26 patents and portions of 9 books. One of his students was a space shuttle astronaut: Anna Lee Fisher (nee Sims), M.S. (chemistry), and M.D.

Dr. Hawthorne's research work in borane cluster chemistry has been internationally recognized and widely honored. As well as many other honors, he was the 1994 recipient of the Willard Gibbs Medal presented by the Chicago

Section of the ACS. In recognition of his seminal contributions to borane cluster chemistry, He received the ACS Award in Inorganic Chemistry in 1973. He is a member of the National Academy of Sciences (Chemical Sciences Award in 1997) and the American Academy of Arts and Sciences.

In 1966, Dr. Hawthorne was appointed Associate Editor of Inorganic Chemistry with Professor Edward L. King as Editor. In 1969, he became Editor-in-Chief and was re-appointed through 2000. His many years of service as editor have seen Inorganic Chemistry grow into a biweekly publication with an unsurpassed international reputation.

DINNER LOCATION:

Kendall College Culinary School
2408 Orrington Avenue
Evanston, IL
The Dining Room
847-866-1300

DIRECTIONS TO KENDALL COLLEGE:

Kendall College is located just a short walk (about 3 blocks) from the Tech Institute. If you are not attending the lecture and, instead, driving directly to Kendall College Culinary School, the following are directions from the Edens Expressway. Take the Edens to the Old Orchard Road exit. Proceed straight east to Green Bay Road and turn north two blocks to Central Street. Turn right onto Central Street and go two streets beyond Ridge Road to Orrington Avenue. Turn south onto Orrington Avenue 1.5 blocks. The culinary school has limited parking in the lot adjacent to the dining room. Parking is also available on the neighborhood side streets. Observe the posted signs.

Reception: 6:15 P.M. - 7:00 P.M.
Complementary wine, soft drinks, and hors d'oeuvres served butler style

Dinner: 7:00 P.M.
Kendall College is the site of the premier culinary school in the Midwest, training chefs to work in the finest and most expensive restaurants. Our main course choices will be a meat, fish, or vegetarian pasta presentation; rolls, butter, and beverage. The Dessert will be a selection by the pastry chef. Details will be known at the time of your reservation.

Dinner reservations are required and should be received in the Section Office via phone (847-647-8405), fax (847-647-8364), or website (<http://membership.acs.org/C/Chicago>). Because of the special nature of this program and its location, we are asking that you

make your reservations earlier than usual and, if possible, by Wednesday, October 10, 2001.

The dinner cost is \$35.00. The cost to students and unemployed members is \$17.50. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

This is the second year we have had the Basolo Medal dinner and presentation at Kendall College. All those attending can look forward to a wonderful evening and a truly fine dining experience.


General Meeting: 8:00 P.M.

Presentation of the Basolo Medal and remarks: Herbert Golinkin, Chair, Chicago Section American Chemical Society; Michael R. Wasielewski, Chairman, Chemistry Dept., Northwestern University; M. Frederick Hawthorne, 2001 Basolo Medalist, University of California, Los Angeles

FREE T-SHIRTS

The Hospitality Committee will be raffling off 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 can win one.

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE CHAIR



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ANALYSIS FOR THE CHEMICAL ELEMENTS

"CHEM SHORTS" For Kids

This column is presented with the hope that it will reach young children and help increase science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary teachers. It is hoped that teachers will try to incorporate some of the projects in this column into their lesson plans.

An Elementary Game

Kids, did you ever think about building your own collection of chemical elements? This can be a fun science project and a great "Show & Tell" classroom session. Look back at our previous article on the periodic table (June 1998) and also at <http://pearl1.lanl.gov/periodic/> for great sites that discuss the more than 100 pure elements that exist in the universe. These sites will tell you the differences between elements, compounds (two or more elements bound together), and mixtures (two or more compounds).

Many of the elements are difficult to find in their pure state, but quite a few are fairly easy to get a hold of. A list of suggestions along with possible sources is provided below. How many of these elements can you find? Can you find any others on the periodic table that we haven't thought of here?

- * aluminum — wire or foil
- * carbon — pencil (graphite), diamond
- * chromium — chrome-plated metal
- * copper — electrical wire or an old penny
- * gold — 24K gold jewelry
- * helium — party balloon
- * iron — masonry nail
- * lead — fishing line weight
- * nickel — coin
- * silicon — solar cell
- * silver — jewelry, real silverware, backs of mirrors
- * sulfur — matches
- * tin — metal sheets at hobby shops, tin cups
- * zinc — metal strips from hobby shops
- * platinum — jewelry
- * neon or argon — gas in neon signs

There are others that are a bit hazardous and so you should only let an adult partner handle them for you. Examples are mercury if kept contained in a thermometer or thermostat switch, and tungsten filaments if left in unbroken light bulbs.

SUBMITTED BY DR. K. A. CARRADO.
References: T. D. Burns, Chemistry Activity Book, 1995, Woodkraftr Kits, Inc., Yarmouth, ME 04096-0808.

CONTACT THE CHAIR

Do you have any questions, suggestions, recommendations, ideas, gripes, complaints, pet peeves relating to the Chicago Section? Do you want to volunteer, help out, 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.

Herb Golinkin
Chair

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CORRECTION

An omission was made of the author's name on the poem on the front page during the printing of The Chemical Bulletin's August/September 2001 issue. The author of "Chicago, Mid-America's Masterpiece" is E. Patrick Lira, Ph.D. Dr. Lira is a retired chemist whose talent besides chemistry is producing outstanding prose. It has become a tradition since 1993 to have one of his poems on the front page during a national meeting being held in Chicago. We wish to extend our sincere apologies to Dr. Lira for the omission.

FRAN KRAVITZ

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Younger Chemists:	Jennifer Horne

CHICAGO SECTION ACS SPEAKERS FOR 2001-2002

Friday, November 16, 2001

Dr. Natalie Foster
LeHigh University
Bethlehem, PA

"Chemistry of Star Trek"

Friday, December 14, 2001

Dr. Abigail Quandt
Walters Art Gallery
Baltimore, MD

"Conservation of Archimedes'
Treatises"

Friday, January 25, 2002

To Be Announced

Friday, February 22, 2002

Dr. A. Truman Schwarz
Macalester College
Saint Paul, MN

"Chemistry and its Teaching at the
Turn of the Century: The Janus
View"

Friday, March 22, 2002

Public Affairs Meeting

Friday, April 19, 2002

Dr. Norman P. Neureiter
Science and Technology Adviser
to the Secretary of State
Washington, D.C.

"Science, Technology and US
Foreign Policy"

Friday, May 24, 2002

Gibbs Medalist To Be Elected by
the Gibbs Jury

Gibbs Award Address

Friday, June 21, 2002

To Be Announced

WHAT DOES THE A.C.S. DO FOR ME?

That is a question I've heard numerous times over the past several years. The people who ask it either want a short answer to justify their membership, or want to reinforce their belief that there is no need to belong. In ancient times a brilliant Hebrew scholar by the name of Hillel taught the meaning of Torah* while standing on one leg. He said (and I paraphrase) "Do unto others as you would have them do unto you. The rest is all commentary." I cannot provide such a succinct answer to membership in the American Chemical Society.

The fact that you are reading this article means you already are a member of the A.C.S., or a subscriber to the Chemical Bulletin. So perhaps I am writing to the choir. The audience to which this should be addressed is your colleagues who are not members. You are well aware that the National A.C.S. has many programs for the benefit of its members and the community at large. This includes education, career services, insurance, publications, forums for technical exchange, etc. There is no need to reiterate the list. You can obtain a copy from the Office of Membership Affairs.

What you can expect to get from membership in the A.C.S. is analogous to what you expect from other organizations. If you belong to a church or fraternal organization or club you may receive a periodic newsletter. Your membership in A.C.S. brings you C&EN weekly, Today's Chemist at Work monthly and Chemistry quarterly. For some this is sufficient as is receiving a monthly or weekly church or club bulletin.

For other people more is needed. A publication doesn't provide satisfaction. In order to get more out of church membership it's necessary to attend the daily or weekly religious services and other programs that are offered. In order to get more out of a club or fraternal organization it is necessary to attend the meetings and participate in the activities. In order to get more out of the A.C.S. it is necessary to participate in the programs and activities offered at the local, divisional and national levels. To maximize the return on membership investment it is necessary to not only participate in the offerings, but also to help these events become reality. The maximum satisfaction comes with helping to provide the services of the organization to others while helping yourself as well.

At your job you expect to provide your employer with solutions to problems, with increased production and with decreased expenses. In return you expect to receive a salary, fringe bene-

fits such as savings plans, insurance and paid vacations, and future promotions. Just as you have to work at your job to receive these benefits you have to work at your profession to receive whatever benefits are available. Of course some of the services you would like to have are not available. Perhaps no one else thought of them or would want them. You might consider contacting the national, divisional or local organization with your ideas so they can be considered. However, there may not be enough resources to provide them. The people who work to bring these to you and your fellow members are volunteers. They all have a job, a family, and other interests as well as the A.C.S. In order to implement your ideas either some of the current ones need to be dropped or more resources need to be employed. You are part of those resources! If you want to know what the American Chemical Society can do for you, remember that you and the rest of the membership are the American Chemical Society.

HERB GOLINKIN
CHAIR, CHICAGO SECTION

* Torah: The five books of Moses

CONTINUING EDUCATION SEMINARS

The Continuing Education and Professional Relations Committees are continuing the series of short courses on Saturday mornings, 9:00 to 12:00, at Loyola University, 6525 N. Sheridan Rd., Cudahy Science Building, room 207.

The November course to be held on **Saturday, November 17** will be on **Statistics for Chemists** given by Kenneth Brubaker of Argonne National Laboratory. This presentation is intended for chemists whose previous exposure to statistical concepts range from no exposure to an introductory general statistics course, and who want to understand the application of basic statistical concepts in their work environment. The topics to be covered include basic concepts, statistical testing and decision making, and analytical applications such as determination of detection limits.

The cost of the seminar is \$10 (free to unemployed chemists). A parking garage is available on the Loyola campus and it is also easily reachable by public transportation.

For further details or to register call the section office, 847-647-8405.


CHEMISTRY DAY 2001

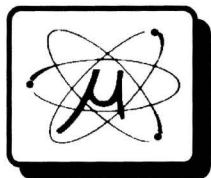
Chemistry Day Chicago style will be celebrated this year at the Adler Planetarium on November 3, 2001. The program will include contests, hands-on experimentation, demonstrations, exhibits, and speakers. An active committee chaired by Tom Kucera and Dave Crumrine together with volunteers helps make this day enjoyable and educational for the visitors. If you are interested in helping to celebrate Chemistry Day 2001, please email Tom Kucera at tjkucera@interaccess.com or phone the Section office (847) 647-8405.

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

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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.

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SIZE	DIMENSIONS	RATE
Full Page	7.5" wide x 10" depth	\$600
2/3 Page (2 columns)	4.917" wide x 10" depth	\$450
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1/2 Column	2.333" wide x 5" depth	\$150

*for October 2001 — June 2002

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**WANTED: A FEW GOOD
SCIENTISTS FOR PROJECT
SEED**

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

Project SEED offers high school students two exciting research opportunities:

- The Summer I program will provide first-time participants (rising juniors and seniors) a fellowship award of \$1,750.
- A second-year program, Summer II, provides Project SEED Summer I students an additional summer of scientific research. These students will receive a fellowship award of \$2,000. Additionally, Summer II students will be eligible for a travel grant of up to \$100 to present their research at an ACS or other scientific meeting.

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

You need not have a student yet in order to apply. Apply now to sponsor a student and the local Project SEED Committee will work with you to obtain

a student. Funding for the student will come from the National Project SEED office and/or matching funds from the local Section.

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

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

APPLICATIONS FOR THE 2002 SUMMER PROGRAM WILL BE AVAILABLE IN NOVEMBER.

APPLICATION DEADLINE WILL BE JANUARY 2002.

If you are NEW to the Project SEED program, your willingness to expose students to a scientific environment is one of several steps that will allow students to discover the world of chemistry. The Council Committee on Project SEED office looks forward to reviewing your application.

Since Project SEED's inception in 1968, more than 5,000 talented high school students nationwide have spent the summer conducting research in local chemistry laboratories under the guidance of mentors. Both students and the community benefit. The students, while earning a stipend, find out what chemistry research or development is about and whether it might interest them as a career. These students become role models for younger students and almost all attend college.

For the Chicago area, fewer than 80 students have participated — not because we don't have students that qualify or aren't interested in the program (each year we can find plenty of students), but due to lack of academic, industrial, and governmental scientists willing to be mentors. **We continue to have the few, dedicated scientists who have been involved in the program several years — and we salute you!**

In order to get more Chicagoland students involved in the program, **we need two things: 1) more scientists willing to participate as mentors/preceptors** to foster the successful continuance and growth of this worthy program in the Chicago area for scientifically promising, but economically disadvantaged high school students **and 2) more funding** from Chicagoland corporations, foundations, and individuals to sponsor our students.

(continued on page 7)

(continued from page 6)

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

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

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

AWARDS, HONORS, AND APPOINTMENTS

James P. Shoffner is the recipient of the **ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences**. Dr. Shoffner is retired from UOP LLC, DesPlaines, Illinois, co-chair of the Chicago Section's Public Affairs Committee, and is a director-at-large of the ACS.

Tobin J. Marks is the 2001 recipient of the **Linus Pauling Medal Award**. Dr. Marks is a Professor of Chemistry and Vladimir N. Ipatieff Professor of Catalytic Chemistry at Northwestern University.

Bipin V. Vora, UOP LLC, DesPlaines, IL, is the recipient of the **ACS Award in Industrial Chemistry**.

Marion C. Thurnauer, Argonne National Laboratory, is the recipient of the **Francis P. Garvan-John M. Olin Medal**.

Mark Ratner, Northwestern University, was elected to the **American Academy of Arts and Sciences**. Among other achievements and appointments, Dr. Ratner is a Director of Northwestern University's Center for Nanofabrication and Molecular Self-Assembly.

Takeshi Oka, University of Chicago, is the recipient of the **E. Bright Wilson Award in Spectroscopy**.

Eric A. Gislason, University of Illinois at Chicago, has been named **UIC's vice-chancellor for research**. The vice chancellor for research is responsible for assuring academic integrity in research endeavors throughout the campus and compliance with federal, state, and local regulations pertaining to research.

Congratulations to all of you.

CHEMICAL SAFETY WEBSITE

The American Chemical Society Committee on Chemical Safety web site has a new look, new content, and a new url. The new web address is <http://chemistry.org/committees/ccs>. Check it out for publications on laboratory safety for K-12, colleges, industrial labs, and small businesses.

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

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CALENDAR

October 7-12, 2001: 27th Annual Conference of Federation of Analytical Chemistry & Spectroscopy Societies. Detroit, MI. Division of Analytical Chemistry. FACSS, (505) 820-1648, fax (505) 989-1073, <http://FACSS.org/info.html>

October 10, 2001: The Chicago Chemists Club will meet at Lou Malnati's Pizzeria, 6649 Lincoln Avenue, Lincolnwood, IL. The speaker will be Lee Murdock, guitarist with traditional folk songs and Great Lakes ballads. For additional information, call Walt Kramer at (847) 967-8457.

October 22-24, 2001: The American Society for Testing and Materials (ASTM) Committee D34 on Waste Management will meet at the Hyatt Regency in Dallas, TX. Contact Dan Schultz at ASTM (610) 832-9716, email: dschultz@astm.org.

November 3, 2001: Chicago Section's National Chemistry Day will be celebrated at the Adler Planetarium. For further information, email Tom Kucera at tjkucera@interaccess.com or phone the Section office (847) 647-8405.

November 4-7, 2001: IEST (Institute of Environmental Sciences and Technology) will have its Fall Conference in Schaumburg, IL. Contact IEST at (847) 255-1561 or iest@iest.org for further information.

November 14, 2001: Trinity Consultants, a nationwide consulting firm that hosts courses for environmental professionals and plant managers, will have a 1.5 day course "Air Quality Regulations and Permitting in Illinois", in Chicago. For more information, contact the Course Registrar at 800-613-4473, or www.trinityconsultants.com.

November 16, 2001: The Chicago Section American Chemical Society's general meeting talk will be "Chemistry of Star Trek", Dr. Natalie Foster, LeHigh University, Bethlehem, PA. For additional information call the Section Office at (847) 647-8405 or <http://membership.acs.org/C/Chicago>.

December 14, 2001: The Chicago Section American Chemical Society/Chicago Chemists Club Joint Annual Holiday Party/Meeting. The talk will be "Conservation of Archimedes' Treatises" by Dr. Abigail Quandt, Walters Art Gallery, Baltimore, MD. For additional information call the Section Office at (847) 647-8405 or <http://membership.acs.org/C/Chicago>.

January 29-30, 2002: The 67th Annual Meeting of the Israel Chemical Society will take place at the Renaissance Hotel and Convention Center, Jerusalem, Israel. For further information, contact the secretariat at (972)-2-6520574 or meeting@isas.co.il.

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