

# theCHEMICALbulletin

April • 2001

## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

### April Dinner Meeting

**FRIDAY, APRIL 20, 2001**

Phil Smidt Restaurant  
1205 N. Calumet Ave.  
Hammond, IN  
1-800-376-4534

One of Chicagoland's landmark restaurants, Phil Smidt was recently awarded by USA Today, Travel and Leisure magazine, and Gourmet magazine for its specialties of Lake Perch and Frog Legs. (Directions are on page 2)

#### **DIRECTIONS TO CERESTAR TOUR**

1100 Indianapolis Blvd.  
Hammond, Indiana  
219-659-2000

Take the Dan Ryan Expressway south to Chicago Skyway (I-90). There is a \$2 toll charge — exact change required. Exit at Indianapolis Blvd. and stay in Left lane when getting off at that exit ramp. Continue straight (south) on Indianapolis Blvd. (you'll pass the entrance to Empress Casino). Cerestar will be on the right side, approximately 3/4 mile down the road from the skyway exit ramp. Turn right into main Cerestar entrance. Follow entrance road to the right and check in at guardhouse. Guard will advise you where to park.

#### **TOUR OF CERESTAR 5:15 - 6:00 PM (SHARP)**

Cerestar is a global producer of starch and starch derivatives and is the world's largest producer of cyclodextrins, a unique form of starch. Its activities are controlled from Paris, France, with production facilities located throughout the world. We will visit a part of Cerestar's 67-acre campus in Hammond. We will begin with a video presentation showing how various starch products are made via the corn wet milling process at Cerestar (plant is too noisy to walk through when production is going on). The Cerestar tour team will then give a tour of the new Food Applications Laboratory. There will be

staff on hand to answer questions about the starch manufacturing and its products, including our after dinner speaker, Dr. Allan Hedges.

All on tour will get a gift bag.

**NOTE: EVERYONE INTERESTED IN COMING TO THE CERESTAR TOUR MUST REGISTER WITH THE SECTION OFFICE, GIVING YOUR NAME, COMPANY AFFILIATION AND PHONE NUMBER BY TUESDAY, APRIL 17, 2001.**

**THIS LIST WILL BE SUBMITTED TO CERESTAR AND ONLY THOSE PERSONS ON THE LIST WILL BE ADMITTED TO THE CERESTAR FACILITY. ANYONE WORKING FOR A COMPETITOR OF CERESTAR WILL NOT BE ADMITTED.**

**CONTACT THE SECTION OFFICE VIA PHONE (847) 647-8405, FAX (847) 647-8364, OR WEBSITE ([HTTP://MEMBERSHIP.ACS.ORG/C/CHICAGO](http://MEMBERSHIP.ACS.ORG/C/CHICAGO)).**

**SOCIAL HOUR: 6:15- 7:00 P.M.**  
Cash Bar available

**DINNER 7:00 P.M.**

Dinner reservations are required and should be received in the Section Office via phone (847-647-8405), fax (847-647-8364), or website (<http://membership.acs.org/C/Chicago>) by noon on Tuesday, April 17, 2001. IF YOU ARE ALSO GOING ON THE TOUR AT CERESTAR, PLEASE INDICATE THIS AT THE TIME YOU MAKE YOUR DINNER RESERVATION AND BE SURE TO GIVE YOUR NAME, COMPANY, AND PHONE NUMBER. 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.

**PLEASE HONOR YOUR RESERVATIONS.** The Section must pay for all dinner orders. No-shows will be billed.

The menu consists of a traditional appetizer relish array of potato salad, cottage cheese, cole slaw, beets, kidney beans, rolls and butter. Main course choices are Boned and Buttered Lake Perch, Fried Chicken, Sautéed Frog Legs, or Vegetarian Pasta; Boiled potatoes and French fries; Apple Pie A la Mode or Crème Brûlée; beverage.

**GENERAL MEETING 8:00 P.M.**

Dr. Allan Hedges, Manager of Cyclodextrin Technology at Cerestar will present a talk entitled, "Industrial Applications of Cyclodextrins".

**ABSTRACT:** Starch is one of the world's most useful and abundant raw materials. A natural plant extract, it is used in food manufacture, pharmaceutical preparations and paper making. Cyclodextrins are an extraordinary type of starch and have a structure allowing them to interact with and stabilize organic molecules to prevent oxidation, volatilization and other degradative effects. Although their chemistry and properties have been established for a long time, they continue to be the subject of interesting commercial applications. Their ability to encapsulate on a molecular scale to form inclusion compounds creates this continued interest. Because of this unique property, cyclodextrins can be used to carry all kinds of active ingredients such as drugs, fragrances, and industrial chemicals in a wide variety of formulations. Increased stability, water solubility, and controlled release are among the many application benefits. Dr. Hedges will discuss the physical and chemical properties of these compounds and how they are used in the food, pharmaceutical and other industries.

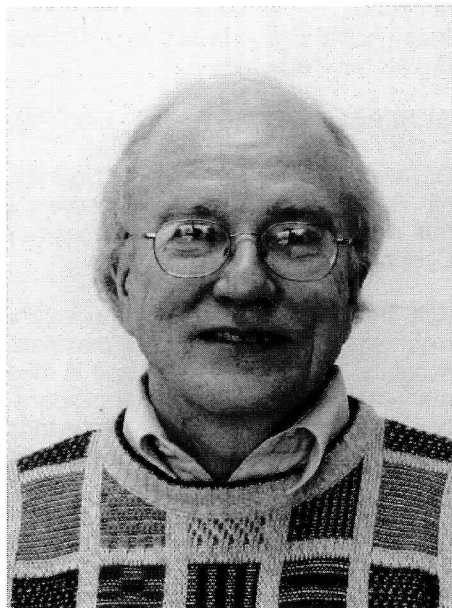
*(continued on page 2)*

**DIRECTIONS TO PHIL SMIDT RESTAURANT**

Turn right after leaving the main entrance at Cerestar and proceed on Indianapolis Ave. to Calumet Ave. (should be first stop light if you just left Cerestar).

For people coming straight from the skyway, Calumet Ave. is the 4th stop light (you should plan to follow the Cerestar directions above, since you must go past Cerestar to get to Calumet Ave.). The street sign for Calumet Ave. is not well marked, so watch for the intersection that has an Amoco gas station on the right side and American Savings Bank on the corner. The Lever Bros. plant is on the left side of Indianapolis Ave. and ends at Calumet Ave.

Turn left and you should be able to see the restaurant on your right, about 1 1/2 blocks down.

**FREE PARKING**

**THE SPEAKER:** Allan Hedges received a B.S. from Allegheny College and a Ph.D. from the University of Illinois. He has been involved with the cyclodextrin program at Cerestar since its inception, providing experience with the production process and expanding into applications and derivatives with improved properties.

**HELP WANTED FOR THE ACS NATIONAL MEETING IN AUGUST!**

The Host Committee is looking for cheerful and friendly volunteers, chemists or nonchemists, to help staff the Hospitality Suite at the meeting August 26-30. No chemical knowledge is necessary, just a willingness to answer questions and help visitors find their way around Chicago and the meeting sites. Come greet our visitors and share your favorite places in our city.

If you can help us out, please email Susan Shih at shihsu@cdnet.cod.edu or send a note to Fran Kravitz at Chicago Section, American Chemical Society, 7173 N. Austin, Niles, IL 60714. Include an email or return address and phone number as well as when you think you will be available. Please let us know as soon as possible.

We are also looking for restaurant suggestions to publish in the brochure attendees will receive. If you are willing to write a mini review of your favorite restaurant(s) with a general indication of price range, please send it to one of us at the above addresses. We need these by May 25.

FRAN KRAVITZ AND SUSAN SHIH,  
CO-CHAIRS, HOST COMMITTEE

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**REGISTER TO ATTEND**  
**MONTHLY SECTION MEETINGS**

**ON LINE**

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

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

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**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, Cheryl Bradley, cbrad1027@aol.com.

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

Issue	Deadline
May 2001	3/30/01
June 2001	5/4/01
August 2001 (Natl. Mtg. issue)	6/15/01
October 2001	8/24/01
November 2001	9/21/01
December 2001	10/19/01
January 2002	11/23/01
February 2002	12/28/01
March 2002	1/25/02
April 2002	2/22/02
May 2002	3/29/02
June 2002	4/26/02

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## CHEMLINKS FOR KIDS

Kids, in this column we'll put together some of our favorite internet sites for chemistry experiments and learning activities at the elementary school level. This is so you have something to do in between our monthly columns! One of our favorite resources through the years has been the American Chemical Society magazine WonderScience. It is now published solely on the web at [www.acs.org/wondernet](http://www.acs.org/wondernet). Activities investigate topics in science through fun, safe, and easy experiments using inexpensive materials found in the home or grocery store.

A very appealing and information-loaded site is hosted by [www.miamisci.org](http://www.miamisci.org). Within their "Education" link is an "On-Line Educational Resources (SLN)" link to such on-line activities as pH and "The Atoms Family", which deals with energy concepts. Both feature highly interactive portraits that are just right for K-5. The Minnetonka Science Center is loaded with teacher tools and ooey, gooey recipes for K-5 science (Gak, Oobleck, Slime, even a singing cake). Start at [www.minnetonka.k12.mn.us/science](http://www.minnetonka.k12.mn.us/science) and proceed to "Teacher Information". This site also contains useful science fair information. Check out the lesson plans at this science connection: <http://student.biology.arizona.edu/sciconn/>. They include density of cereals, crime scene investigations with paper chromatography, and oobleck and glurch, all for grades 3 and up. Now that you've made some Oobleck, hop to the Jefferson Labs site for ideas on what to do with it: <http://education.jlab.org> and click on the "BEAMS" program for grades 6-8 activities. There are also great periodic table and element games on-line here.

A refresher about atoms, elements and matter is hosted at [www.chem4kids.com](http://www.chem4kids.com). Also provided for an advanced student are sections on math and chemical reactions. "Project Primary" at [www.owu.edu/~mggrote/pp/chemistry/f\\_chemistry.html](http://www.owu.edu/~mggrote/pp/chemistry/f_chemistry.html) has K-3 activities on polymers, kitchen chemistry, and liquid nitrogen ice cream. A great site for minerals, soils, and clay can be found at [http://cms.lanl.gov/K\\_12.html](http://cms.lanl.gov/K_12.html). Numerous links are summarized as well as downloadable activities. Wonderful kid sites that contain a lot of elementary science information, including some on chemistry, are Bill Nye's ([BillNye.com](http://www.BillNye.com)), Beakman & Jax ([www.beakman.com](http://www.beakman.com)) and Marshall Brain's ([www.howstuffworks.com](http://www.howstuffworks.com)), see the Chemistry link).

And of course don't forget about our own "ChemShorts for Kids" site! All the activities from 1992 are there at <http://membership.acs.org/C/Chicago>

/ChmShort/kidindex.html, including one that can be found only on the web (May 2000 - a colorful chart of molecules for the primary student). Also check out <http://membership.acs.org/C/Chicago/eled/eled.html> for some other activities. Next month we'll have another ChemShorts activity, I promise!

WRITTEN BY: K. A. CARRADO,  
ELEMENTARY EDUCATION COMMITTEE.

## THE ACS CAN HELP YOU IN YOUR EMPLOYMENT SEARCH

The ACS has a complete department of career services (DCS) to assist people in their employment search including career guidance, salary information, situation want ads, a listing of positions and series of publications. There is also a career program for colleges and universities. The majority of this information can be located on the ACS website. The DCS is located in Washington DC, but the National Employment Service is available at all national meetings, with a regional equivalent service at regional meetings. There is also a local section career program that brings career services to the Chicago Area.

The DCS supports the Career Consultant Program, which consists of a network of people who volunteer to help individuals in their job search. The program tries to match a person with a consultant that may be able to help them the most. If you would like a career consultant, contact DCS.

ACS members can find out salary information to help determine what their worth is, as well as search a listing of available positions called the ACS Job Bank. They can also place a situation wanted in the C&EN. Chicago Area members can check the local website for positions in the area and place a situation ad.

The DCS offers free publications to ACS members on resume writing, interviewing skills, and how to target the job market. They offer a number of other publications on other subjects that may be needed in an employment search.

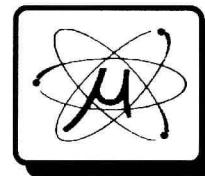
The local section career program can bring workshops and presentations sponsored by DCS to the Chicago Area. The presentations include "Managing an Effective Job Search," "Strategies for Career Transitions," and "Career Strategies: The 9 Steps for Success." There are a number of workshops available including communication skills and global employment for chemistry professionals. Workshops can also be tailored to fit the local members' interests. The ACS Career Services Catalog lists all the publications,

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workshops, and presentations available.

We have had several career service events in Chicago and would like to have more. There are some career consultants in our section who participate in local career programs. If you would like more information on any of the services or are interested in one of the workshops or presentations, please contact the Chicago local section career program coordinator. There is information available to you no matter what stage you are in your career.

ALLISON A. ALDRIDGE  
LOCAL CAREER PROGRAM  
COORDINATOR



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**BUDGET REPORT**

The financial information presented encompasses the legal requirement for informing our membership of the Section's financial well being for 1999-2000.

**SECTION'S BUDGET  
1999-2000**

	Budgeted	Actual
<b>Income</b>		
Local Section Dues	40400	41170.06
Nat'l Allotments & Commissions	23000	24056
Transfers from Investments	55000	40000
Chemical Bulletin Ad Income	15000	11200
Chemical Bulletin Misc. Income	100	105
Scholarships Rec'd-Operating	0	0
Donations	0	0
Miscellaneous	0	0
<b>Total</b>	<b>133500</b>	<b>119688.06</b>
<b>Operating Expenses</b>		
Awards	350	211.13
Chair & Chair-Elect	1000	556
Chemical Bulletin Office	0	0
Chemical Bulletin Printing & Mailing	26000	28658.08
Chicago Chemistry Week	1200	433.18
Contributions	0	0
Councilor Expense	9750	537.12
Employee Benefits	1300	1200
Employment	0	0
Endowment	200	0
Finance	0	0
Gibbs Award Ceremony	7000	2100.92
Great Lakes Regional Meeting	300	212.12
Hospitality	600	365.16
House	1000	2895.53
H.S. & College Education	2400	2887.57
Kids & Chemistry	2800	1073.71
Membership	0	0
Minority Affairs	2000	806.43
National Affairs	0	0
Office	400	2122.23
Program	5000	2290.94
Project SEED	1750	0
Public Affairs	1000	814.85
Public Relations	0	57.97
Rent & Telephone	12000	5894.17
Safety	300	0
Salaries	40000	39172.64
Scholarship	0	8750
Secretary	200	8817.35
Subsidized Dinners	3500	1138.61
Topical Group	290	0
Treasurer	200	5480.08
Uncategorized Expenses	0	7.74
Younger Chemists	1000	193.39
<b>Total</b>	<b>121190</b>	<b>116677.93</b>
<b>Net Income</b>	<b>12310</b>	<b>3010.13</b>

**2001: A GRAND CHEMICAL  
ODYSSEY**

33rd Central and 33rd Great Lakes  
Joint Regional Meeting  
June 11 - 13, 2001

The Kalamazoo and Western Michigan Sections of the American Chemical Society invite you to participate in "2001: A Grand Chemical Odyssey" from June 11 - 13 at the Amway Grand Plaza Hotel in downtown Grand Rapids, Michigan. You will join some of the best minds in Education and Industry at the more than 90 technical and poster sessions which will include symposia focused on Education, Food and Agricultural Chemistry, Pharmaceutical Chemistry, and Polymer Chemistry. Highlights of the meeting include five short courses, an undergraduate poster session, vendor exhibits, and daily social events.

Guest speakers will include **US Representative Vernon Ehlers** on the topic of science education; **Dr. Bassam Shakashiri** on "Communicating Chemistry", **Dr. George Vande Woude** on "Biomedical Research: Where Do We Go From Here?", **Dr. Paul Jones and Dr. John Giesy** on "Environmental Chemistry and the Great Lakes", and **Helen Free**, ACS Region II Director.

The short courses will include NMR: Basics to Beyond, Hands-On Computers and Calculators for High Schools and College Teachers, P&G Short Course in Problem Solving for Undergraduate Students and High School Teachers, Polymers for High School and College Teachers, and a LabWorks workshop.

Special events will include an opening evening reception, the High School Teacher awards dinner, a tour of the Fredrik Meijer Gardens and the famed Leonardo da Vinci's Horse sculpture, a Regional Directors breakfast, Michigan State University's "Science Theatre", a Women Chemist's Committee Luncheon, and a Student Affiliates mixer. Numerous other entertainment opportunities are available in the Grand Rapids area.

Please visit our website for a detailed program, registration information, and additional, up to date information: <http://membership.acs.org/w/wmi/2001/>





## AMERICAN CHEMICAL SOCIETY CHICAGO SECTION



### WILLARD GIBBS MEDAL AWARD PRESENTATION

**Friday, May 18, 2001**

You and your guest(s) are cordially invited to attend the 90<sup>th</sup> presentation of the Josiah Willard Gibbs Medal to Dr. Nicholas J. Turro, the William P. Schweitzer Professor of Chemistry at Columbia University, on Friday, May 18, 2001, at the Argonne Guest House, 9700 S. Cass Ave., Bldg. 460, Argonne, Illinois. A social hour begins at 6 p.m. Dinner is served at 7 p.m. Dr. Turro's talk will begin at about 8:30 p.m.

Dinner for this special occasion, includes crab cakes with avocado butter sauce; spinach and bib salad with roasted cashews and cucumber dressing; a choice of beef tenderloin in red wine sauce, chicken breast in pomegranate syrup, or grilled Atlantic salmon in white sauce; and chocolate wave cake. (A vegetarian entree is available on request.) Price is \$35 for members and guests and \$37 for nonmembers. To reserve your tickets, please fillout the attached reservation form and mail with payment to the address below. Tables of 10 may be reserved. If you request seating for a group, please include a list of names to the people in your group. Tickets and nametags will be mailed to those whose orders are received by May 7. Your name will be added to a list that will be checked by Argonne Security at their gate house. No refunds will be made after noon Tuesday, May 15.

The Gibbs Award Dinner is always a memorable occasion. Only the Nobel Prize is considered more prestigious. Please come to salute the recipient and rejoice in Dr. Marks' achievements in and contributions to the science of chemistry.

**Margaret Stowell Levenberg**  
**Gibbs Arrangements Committee**

#### 2001 GIBBS DINNER RESERVATION FORM

Name \_\_\_\_\_ Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Number of tickets for ACS members and guests (\$35 pe ticket): \_\_\_\_\_ Nonmembers (\$37): \_\_\_\_\_


Total enclosed (include check): \$ \_\_\_\_\_ Number of dinners: \_\_\_\_\_ Beef \_\_\_\_\_ Chicken \_\_\_\_\_ Fish \_\_\_\_\_

**Return with payment to: Chicago Section American Chemical Society, Gibbs Reservation,  
7173 N. Austin Ave., Niles, IL 60714**

Please include a list of your guests' names, affiliations, and dinner selections with this form.  
NON-U.S. CITIZENS: PLEASE CONTACT THE ACS OFFICE AT 847-647-8405 BY MAY 1.

### SECTION'S BALANCE SHEET COMPARISON

	6/30/99	6/30/00
<b>Assets</b>		
101 Cash	21874.5	24920.18
102 Petty Cash	400	400
105 Accounts Receivable	0	5679
110 Medals Inventory	2735.5	0
116 Prepaid Expenses	0	0
117 Operating Fund	-14301.68	-23807.68
701 Stocks & Options at Cost	194891.45	371950.65
702 Mutual Funds at Cost	264856.7	194021.2
703 Taxable Bonds at Cost	15162.97	0
704 Money Market Funds & Cash	120538.2	75016.11
705 Accumulated Unrealized Capital Gains	306961.17	327228.92
Total Assets	913118.81	975408.38
<b>Liabilities</b>		
115 Holding Fund	9092.75	2977.75
401 Accounts Payable	1615.57	4213.74
751 Meeting Place Res'Ve Fund	160948.26	164456.86
752 Contingent Reserve Fund	66250.55	67694.78
753 Exposition Reserve Fund	133683.1	136597.33
754 Scholarship Operating Fund	310891.73	35726.32
755 General Endowment Fund	40072.5	40946.06
756 Willard Gibbs Endowment Fund	38002.8	44464.38
757 Ipatieff Library Endowment Fund	21161.55	21637.83
758 Scholarship Endowment Fund	111408.37	113915.84
759 Marie Lishka Scholarship Endowment Fund	9693.39	10533.17
760 Henrietta Z.Freud Trust Endowment Fund	10298.24	10694.31
Total Liabilities	913118.81	975408.37



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**ANALYSIS FOR THE CHEMICAL ELEMENTS**

## 2001 WILLARD GIBBS MEDALIST ANNOUNCED

Dr. Sharon Northup, Chair of the Chicago Section of the American Chemical Society and Chair of the Gibbs Jury, is pleased to announce that the 2001 Gibbs Medal will be presented to Professor Tobin Marks of Northwestern University on May 18, 2001 at The Guest House of Argonne Laboratories, Argonne, IL.

The Chicago Section of the American Chemical Society is proud to honor Professor Tobin Marks for his highly original research that has had a major, lasting impact on important areas of chemical science ranging from f-element coordination and organometallic chemistry, to homogeneous small molecule and polymerization catalysis, to molecule-based photonic materials, low-dimensional electronic conductors, oxide chemical vapor deposition, high temperature superconductors, and metallocene anti-tumor agents. His style embodies discriminating choice of problem, elegant synthesis, incisive elucidation of reaction mechanism, and decisive application of an awesome array of physicochemical techniques. He has been one of the most cited inorganic chemists in the world, and his fundamental research is of the highest caliber.

Professor Marks received his B.S. at the University of Maryland in 1966 and his Ph. D. from M.I.T. in 1970. He has been at Northwestern University from 1970 until the present and has been the Vladimir N. Ipatieff Professor of Catalytic Chemistry since 1999.

For over 30 years, Professor Marks has conducted pioneering and interdisciplinary research in the areas of inorganic, organometallic, catalytic, and materials chemistry. As of October 1, 2000, Professor Marks has published 595 papers based on his research (with several more in press) and has had 52 patents issued.

Professor Marks has also thrown tremendous energy into serving the chemical community. He has organized highly successful NSF and DOE Workshops, NATO Institutes, ACS Symposia, the Inorganic Gordon Conference, and International MOCVD Workshops. He has served as Associate Editor of *Organometallics*, and, most recently, as Chair of the ACS Division of Inorganic Chemistry. He has served on numerous governmental advisory committees, and has mentored 70 Ph. D. students and nearly as many postdoctoral fellows. More than 50 of his alumni hold tenure-line academic positions worldwide.

Honors to Professor Marks include the following among many others: 1989 ACS Award in Organometallic Chemistry, 1994 ACS Award in Inorganic Chemistry, 2001 ACS Award in the Chemistry of Materials.

Please join us on May 18, 2001 to honor Professor Tobin Marks.

## WOMEN CHEMISTS COMMITTEE ESTABLISHES OVERCOMING CHALLENGES AWARD

The Women Chemists Committee of the American Chemical Society has established an award designed to recognize a woman from a two-year or four-year institution for her efforts in overcoming hardship to achieve success in chemistry. The award consists of a plaque, a monetary award of \$250, and up to \$500 in travel expenses to the fall ACS national meeting. The recipient will be recognized at the WCC Luncheon on Tuesday afternoon at that meeting.

### Criteria:

Awardee must be a woman currently enrolled in a two-year chemistry-related program or pursuing a major or minor in a four-year chemistry program in a school not granting a doctoral in chemistry. The awardee must have completed one semester of college level chemistry.

Applicants must demonstrate that they have overcome hardships (economic, personal, or academic) in pursuit of their education in order to be considered for the award.

The jury will consider 4 categories: improvement, initiative, successes, and grades from the previous two semesters (not cumulative grade point average).

### Award Administration:

Nominees must submit a letter requesting the award, one letter of recommendation, and school transcripts. The request should contain nominee name, address, telephone number, and email address as well as explain the hardships the student has overcome and her current successes.

Submissions should be sent to: Women Chemists Committee, American Chemical Society, 1155 16th Street, NW, Washington DC 20036.

**Nominations must be received by May 1, 2001.** The award will be presented at the fall ACS National Meeting in Chicago, IL, at the Women Chemists Luncheon on Tuesday, August 28, 2001.



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## THE WILLARD GIBBS AWARD FOUNDED BY WILLIAM A. CONVERSE

The award was founded in 1910 by William Converse (1862-1940), a former chairman and secretary of the Chicago Section. The medal was named for Professor Josiah Willard Gibbs (1839-1903) of Yale University. Gibbs, whose formulation of the Phase Rule founded a new science, is considered by many to be the only American born scientist whose discoveries are as fundamental in nature as those of Newton and Galileo.

Mr. Converse supported the award personally for a number of years, and then established a fund for it in 1934 that has subsequently been augmented by the Dearborn Division of W. R. Grace & Co. J. Fred Wilkes and his wife have also made considerable contributions to the award.

Since the sale of the Dearborn/Grace division to Betz, the BetzDearborn Foundation, located in Horsham, Pennsylvania has most generously offered to continue the historic relationship between the Section and Dearborn. This Foundation has contributed annually since the purchase toward the Willard Gibbs Medal Fund to help defray the cost of the medal and of the banquet itself-helping to make the banquet award the outstanding and gracious event that it is. We are most appreciative of their support.


The purpose of the award is "To publicly recognize eminent chemists who, through years of application and devotion, have brought to the world developments that enable everyone to live more comfortably and to understand this world better." Medalists are selected by a national jury of eminent chemists from different disciplines. The nominee must be a chemist who, because of the pre-eminence of his work in and contribution to pure or applied chemistry, is deemed worthy of special recognition.

The award consists of an eighteen carat gold medal having, on one side, the bust of J. Willard Gibbs, for whom the medal was named. On the reverse is a laurel wreath and an inscription containing the recipient's name.

Given annually for eighty-nine years, the recipients span three-quarters of a century of chemistry. Most of the names are familiar to chemists regardless of specialty. This fame may result from later recognition, including, in many cases, the Nobel Prize, or the reason may be that textbooks have permanently associated many of these names with classic reactions or theories. In any case, the fame achieved by

the Gibbs medalists has crossed the boundaries between chemistry specialties.

Svante Arrhenius	1911	W. O. Baker	1978
Theodore W. Richards	1912	E. Bright Wilson	1979
Leo H. Baekeland	1913	Frank Albert Cotton	1980
Ira Remsen	1914	Bert Lester Vallee	1981
Arthur A. Noyes	1915	Gilbert Stork	1982
Willis R. Whitney	1916	John D. Roberts	1983
Edward W. Morley	1917	Elias J. Corey	1984
William M. Burton	1918	Donald J. Cram	1985
William A. Noyes	1919	Jack Halpern	1986
F. G. Cottrell	1920	Allen J. Bard	1987
Mme. Marie Curie	1921	Rudolph A. Marcus	1988
Julius Stieglitz	1923	Richard B. Bernstein	1989
Gilbert N. Lewis	1924	Richard N. Zare	1990
Moses Gomberg	1925	Gunther Wilke	1991
Sir James Colquhoun Irvine	1926	Harry B. Gray	1992
John Jacob Abel	1927	Peter B. Dervan	1993
William Draper Harkins	1928	M. Frederick Hawthorne	1994
Claude Silbert Hudson	1929	Sir John Meurig Thomas	1995
Irving Langmuir	1930	Fred Basolo	1996
Phoebus A. Levene	1931	Carl Djerassi	1997
Edward Curtis Franklin	1932	Mario J. Molina	1998
Richard Willstätter	1933	Lawrence F. Dahl	1999
Harold Clayton Urey	1934	Nicholas J. Turro	2000
Charles August Kraus	1935		
Roger Adams	1936		
Herbert Newby McCoy	1937		
Robert R. Williams	1938		
Donald Dexter Van Slyke	1939		
Vladimir Ipatieff	1940		
Edward A. Doisy	1941		
Thomas Midgley, Jr.	1942		
Conrad A. Elvehjem	1943		
George O. Curme, Jr.	1944		
Frank C. Whitmore	1945		
Linus Pauling	1946		
Wendell M. Stanley	1947		
Carl F. Con	1948		
Peter J. W. Debye	1949		
Carl S. Marvel	1950		
William Francis GIAUQUE	1951		
William C. Rose	1952		
Joel H. Hildebrand	1953		
Elmer K. Bolton	1954		
Farrington Daniels	1955		
Vincent du Vigneaud	1956		
W. Albert Noyes, Jr.	1957		
Willard F. Libby	1958		
Hermann I. Schlesinger	1959		
George B. Kistiakowsky	1960		
Louis Plack Haminett	1961		
Lars Onsager	1962		
Paul D. Bartlett	1963		
Izaak M. Kolthof	1964		
Robert S. Mulliken	1965		
Glenn T. Seaborg	1966		
Robert Burns Woodward	1967		
Henry Eyring	1968		
Gerhard Herzberg	1969		
Frank H. Westheimer	1970		
Henry Taube	1971		
John T. Edsall	1972		
Paul John Flory	1973		
Har Gobind Khorana	1974		
Herman F. Mark	1975		
Kenneth S. Pitzer	1976		
Melvin Calvin	1977		

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	<b>Lab Equipment</b> <ul style="list-style-type: none"> <li>➤ LC</li> <li>➤ DSC &amp; TGA</li> <li>➤ FTIR</li> <li>➤ GC</li> <li>➤ ATR</li> <li>➤ ESCA &amp; NMR</li> <li>➤ Light Scattering</li> </ul>
<b>(508) 966-1301</b> <a href="http://www.jordiassoc.com">www.jordiassoc.com</a>	

	Visit the <b>Chicago Section</b> at <a href="http://membership.acs.org/C/Chicago">http://membership.acs.org/C/Chicago</a>
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## ELECTIONS FOR 2001-2002 CHICAGO SECTION OFFICERS

The Nominating Committee has put together the following slate for the upcoming election of officers for the coming year. Please be sure to vote when you receive your ballot. Election results will be announced at the April 20, 2001 Section meeting.

Keith Kostecka  
Chair, Nominating Committee

CHAIR-ELECT  
Charlotte Lee, Susan Shih

VICE-CHAIR  
David Crumrine, Russell Johnson

TREASURER  
Keith Kostecka, Bob Shone

SECRETARY  
Jennifer Horne, Mark Cesna

### DIRECTORS (7 to be elected)

Connie Buenvenida  
Marsha Phillips  
Darryl Prater  
Steve Sichak  
Cherlyn Bradley  
Larry Berman  
Fred Turner  
Allison Aldridge  
Fran Kravitz  
Michael Welsh  
Frank Jarzembowski  
Avrom Litin  
Barb Moriarty  
Angela Kowalski

## AD RATES SET FOR NATIONAL MEETING ISSUE

The American Chemical Society Chicago Section Board of Directors in February approved advertising rates for the special issue of The Chemical Bulletin that will be distributed at the ACS National Meeting Aug. 26-31, 2001, in Chicago.

The newsletter will be distributed to the approximately 10,000 meeting attendees from across the country, double the usual circulation.

The rates for the special issue are:

- Half column (2.333" x 5"): \$300
- One column (2.333" x 10"): \$600
- Two columns (4.917" x 10"): \$900
- Full page (7.5" x 10"): \$1,200

Commitment deadline is June 8. Copy deadline is June 15. Contact the Chicago Section ACS Office at 847-647-8405 or [ellen@teianalytical.com](mailto:ellen@teianalytical.com) for details.

## DUTIES OF SECTION COUNCILORS EXPLAINED

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

Have you ever wondered who and what American Chemical Society 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 some 470 voting Councilors (as of March 2000), representing Local Sections and Divisions. The Council convenes twice a year at the Society's national meetings.

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

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

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

Younger Chemists; 4) Other Committees of the Council: Admissions, Analytical Reagents, Nomenclature, Project SEED, and Women Chemists; and 5) Elected Committees: Council Policy, Nominations and Elections, and Committee on Committees.

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

The Chicago Section is represented by 13 councilors, which you elect in April. Most of these councilors are active members (or associates) on National ACS committees. Your Chicago Section Councilors and their committee appointments are: Roy H. Bible, Cherlynlaughn Bradley (Project SEED; Chemical Safety; Resources Subcommittee of Committee on Chemical Safety), Charles Cannon (Minority Affairs), Nathaniel Gilham (Constitution and Bylaws), Russell Johnson, Fran Karen Kravitz (Economic and Professional Affairs; Professional Standards and Ethics subcommittee), Thomas Kucera (Meetings and Expositions), Claude Lucchesi (Chemistry and Public Affairs), Barbara Moriarty (Economic and Professional Affairs, Chair of Employment Services subcommittee), Seymour Patinkin (Local Section Activities), Marsha A. Phillips (Education:K-12 Task Force), James P. Shoffner (Member of Board as Director-at-large; Member of Board Committees on Grants and Awards and Professional and Member Relations; Chair, District V Caucus; Chair-Elect, Division of Professional Relations; Minority Affairs, and Science), and Stephen Sichak (Chemical Safety; Chair, By-Laws Committee for Division of Chemical Health and Safety; Member-at-large of Professional Relations Division).

Alternate Councilors for the Chicago Section are: Sanford Angelos, Larry Berman, Marilyn Kouba, Margaret Stowell Levenberg, Sharon J. Northup, Gayle O'Neill, Darryl Prater (Younger Chemists; Liaison to Minority Affairs), Adele Rozek, Guy Rosenthal, and Fred Turner.

Some of our Councilors are involved in other activities related to the National Meetings. For example, Roy Bible (with LeRoy Johnson) teaches a 3-day NMR course before each National meeting.

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



## TOM KUCERA WINS HENRY A. HILL AWARD

The 2001 Henry A. Hill Award will be presented to **Thomas J. Kucera** at the ACS national meeting in San Diego on April 3. The award reception begins at 4:30 p.m. and is open to all Division of Professional Relations members and friends of Tom Kucera. Check the final program in Chemical & Engineering News for location of the reception.

Tom earned a Ph.D. in chemistry from Purdue University, and then went to New Zealand to do research on a Fulbright scholarship. When he came back to the U.S., he took an industrial position and later went into consulting in electrophotographic science, a field in which he is still recognized as an expert. He was later employed for 20 years by the American Photocopy Company (APCO), eventually becoming a vice president and member of the board of directors, before returning to private consulting.

Tom has been very active in professionalism affairs, both at the local and national level, despite a serious automobile accident many years ago (those of you who have met Tom know that he zips around in his motorized chair with great aplomb). He has held many offices at the local level, including section chair and chair of various committees. He has been a councilor from the Chicago Section for nearly 30 years.

Tom has also been quite active at the national level, having had a major impact on ACS actions related to chemists with disabilities. More than 10 years before the U.S. Congress passed the Americans with Disabilities Act (ADA), Tom was part of the group that worked to get the ACS Board to create the Committee on Chemists with Disabilities (CWD), and served as its first chairman. He has participated in and continues to work on, such projects as production of the ACS booklet, *Teaching Chemistry to Students with Disabilities*; editing *Working Chemists with Disabilities: Expanding Opportunities in Science*; and offering counseling to individuals with disabilities. Tom is a member of the Council Committee on Nominations and Elections, and has for some time been program chair for the DPR. He previously received the Louis Sacco Award for service to the Division.

**PLEASE  
VOTE**

**(Ballots were mailed in March)**

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## GRANTS

### Undergraduate Scholarships for Women Engineers:

The Society for Women Engineers offers scholarships to freshmen women and women who have been out of the engineering workforce and out of school for at least two years prior to reentry. Awards range from \$1,000 to over \$5,000 per year, totaling more than \$200,000. Deadline for Freshmen and Reentry Students is May 15. <http://www.swe.org>

### National Research Council Associateships:

The National Research Council administers the Postdoctoral Research Associateship Program for 30 federal laboratories and NASA Research Centers at over 100 U.S. and overseas locations. These programs provide awards to doctorate level scientists and engineers who are in the early or senior stages of their careers who can bring their special knowledge and research talents to work in research areas of interest to them, the host laboratories, and Research Centers. Deadline: April 15. <http://www.national-academies.org/rap>

### Faculty Start-Up Grants:

The Camille and Henry Dreyfus Foundation offers grants for new faculty through its Faculty Start-up Grant and New Faculty Awards programs. While most talented young faculty applies for and are able to secure external research support, in most cases such support does not ordinarily become available before the end of the first year of appointment. A key feature of these awards is that an unrestricted research grant is awarded in September of the year the new faculty member formally begins the first-year appointment. Deadline: May 15. <http://www.dreyfus.org/>

### Astronomy Grants:

The American Astronomical Society (AAS) offers Small Research Grants to Ph.D. astronomers in the range of \$500 to \$5,000 to cover costs associated with any type of astronomical research. The program is funded by a grant from NASA, by income from the AAS operating reserve fund and, in some cases, by the Gaposchkins' Research Fund. Graduate students are not eligible. Astronomers from smaller, less endowed institutions will be given priority, but proposals will be accepted from individuals not associated with an institution. Deadlines: May 4 and Dec. 7. See <http://www.aas.org>

### Astronomy, Chemistry, Physics Faculty Awards:

The Cottrell College Science Awards program provides summer support for significant fundamental research by faculty in non-Ph.D.-granting departments of astronomy, chemistry and physics. The Research Corp. of Tucson, AZ, coordinates the program. Average award is \$31,000. Deadlines: May 15 and Nov. 15. <http://www.rescorp.org/>

### Minority Graduate Fellowship in Microbiology:

The American Society for Microbiology's Robert D. Watkins Minority Graduate Fellowship aims to increase the number of underrepresented minorities completing doctoral degrees in the microbiological sciences. The total stipend is for three years at \$15,000 per annum and cannot be used for tuition and fees.

Deadline: May 1. <http://www.asmtusa.org/>

### AIChE Minority Affairs Committee College Scholarships

The Minority Affairs Committee of the American Institute of Chemical Engineers awards twenty \$1,000 scholarships each year to college undergraduates and incoming college freshmen who are studying, or plan to study (in the case of incoming freshmen) chemical engineering. Students must be members of a minority group that is underrepresented in Chemical Engineering (i.e. African American, Hispanic, or Native American). We encourage you to invite all students who would benefit from this scholarship opportunity to apply. The deadline for application is April 16, 2001. Descriptions of the two types of awards are listed below, with links to the AIChE Web site and PDF application forms.

AIChE Minority Affairs Committee Scholarship Award for College Students is a scholarship award of \$1,000 conferred to an undergraduate in chemical engineering during the 2000-2001 academic year. The student must be a member of a minority group that is underrepresented in chemical engineering. Selection is based on the applicant's academic record, participation in AIChE student and professional activities, career objectives, and financial need. <http://www.aiche.org/awards/awarddtl.asp?AwardID=7>

AIChE Minority Affairs Committee Scholarship Award for Incoming College Freshmen is a scholarship award of \$1,000 conferred to a high school senior who is a member of a minority group that is underrepresented in chemical engineering. Applicants must

plan to enroll during the 2001-2002 academic year in a four-year college or university offering a science/engineering degree. Students are encouraged to choose classes leading to a degree in chemical engineering. Selection is based on the applicant's academic record, participation in school and work activities, reason for choosing science or engineering, and financial need. <http://www.aiche.org/awards/awarddtl.asp?AwardID=8>

If you have any questions about the awards, or would like a hard copy of application forms, please contact the AIChE Awards Administrator at [awards@aiche.org](mailto:awards@aiche.org) or (212) 591-7478.

## SCHOLARSHIPS

The Chicago Chromatography Discussion Group (CCDG) offers two annual scholarships for students of the Chicago area. One is the membership scholarship, and the other is the research scholarship.

**Membership:** This scholarship is intended for children of CCDG members who are undergraduates majoring in the sciences (don't need to be in separations). The award consists of \$1000 to be used at the awardee's discretion. The award is given out at the CCDG Annual All-Day Meeting in May of each year.

**Research:** This scholarship is intended for undergraduate or Master's students performing research in separation science or using separations in their work. Previous winners have done work in lab-on-a-chip technology, cystic fibrosis research, and fullerene chemistry (to name a few). Eligible schools are anywhere in Illinois and southern Wisconsin. The award consists of \$1000 to be used at the awardee's discretion. The award is given out at the CCDG Annual All-Day Meeting in May of each year, where the awardee is encouraged to make a brief overview of their work.

Applications and requirements for both scholarships will be available on the CCDG web site ([www.ccdg.org](http://www.ccdg.org)) by mid-January of 2001. Applications will be accepted until April 30, 2001.

For more information contact the CCDG Awards Chairperson, Jim Michels, at (630)-305-2318 or [jmichels@nalco.com](mailto:jmichels@nalco.com).

## AN ENGINEER'S ODE TO A SNOWFLAKE\*

By Bob Brusenbach  
(a flaky kind of guy)

Ah, how wondrously beautiful you are,  
Cloaked in your sparkle reflective  
mantle of radially radiant hexagonal  
symmetry.

You are the delicate essence of two  
dimensional dendritic frailty,  
Your filigree frosty form revealing a  
growth temperature of 27 to 32°F.

Planar pinwheel rotating as you flutter  
fall  
With increased turbulence at your stel-  
lar arm tips yielding a higher mass  
transfer coefficient  
As your faster growing tip termini  
reach for sustenance in the super-  
cooled firmament.

Are you a friable flake, fractured when  
wildly whipped by winter winds and  
Hurlled into a packed drift having an  
average bulk density of 0.14854  
gm/cm<sup>3</sup>?

Or, in the whisper still eventide, do you  
feather drift down at your terminal  
falling velocity, described by the equa-  
tion

$$\mu_f [ 2gmp (dp - d) / d dp Ap C ]^{1/2}$$

Where the rate of change of linear  
momentum on impact does not serious-  
ly threaten your fragility  
And you cushion snuggle among your  
crystal faceted brethren?

And there in silence you congregate,  
Your gossamer grace repeated but with  
infinite geometrical nuance as you gath-  
er in billions count  
In my driveway  
With a collective weight sufficient to test  
the bending moment of the 1.25 inch  
diameter hardwood handle of my Ames  
snow shovel.

Hark! I hear you crunch scream the  
anguish of destruction rudely wrought  
by my size 13 Sears and Roebuck  
galoshes.  
You are about to feel the violent jostle  
of mass relocation.

But even if untouched by the ravages of  
wind or of unfeeling human aggression,  
Objective reality demands hastened  
appreciation of your glory.  
You are fleetingly transient.

Your demise may begin with regulation  
spheronization  
Accompanied by an irreversible trip into  
oblivion  
Driven by sublimation  
For, indeed, your vapor pressure in the  
solid state is, e.g., 3.013 mm mercury  
at  
-5° C.

So it goes, snowflake.

\*Reprinted with permission from "The  
Abbott Engineer", Vol. 15, No. 3 (1989)

## ACS Legislative Action Network

Have you signed up to be a part of  
the ACS Legislative Action Network  
(LAN)? The LAN was established to  
ensure that our elected officials hear  
from chemists before voting on issues  
that impact the profession. Through this  
Network, ACS members nationwide  
have an easy and effective way of  
impacting federal policies ranging from  
K-12 science education to federal R&D  
funding. Members participating in the  
LAN receive timely Legislative Action  
Alerts via e-mail, approximately 6 times  
per year, prior to key congressional  
votes. These alerts include background  
on the issue, its likely affect on  
chemists and chemical engineers, and  
ACS's position. The e-mail messages  
link members directly to the Legislative  
Action Center on the ACS Web site,  
where they can review action alerts,  
edit sample letters online, and send e-  
mail messages to their Representative  
and two Senators within minutes. In  
addition, Legislative Bulletins are sent  
monthly to keep Network members up  
to date on priority issues.

Because members of Congress  
respond to constituents and value non-  
partisan technical expertise, local section  
members are urged to join the Network  
to ensure that our lawmakers take our  
views into account before key votes. If  
you have Internet access, simply send  
your name, e-mail address, and ACS  
member number to [grassroots@acs.org](mailto:grassroots@acs.org).  
You can also sign up on the Web site at  
<http://www.acs.org/government/action/>. If  
you have questions, please contact Brad  
Smith in the ACS Office of Legislative  
and Government Affairs office at  
202/872-4479.

## SCITECH

The Science and Technology Interac-  
tive Center (SciTech) in Aurora is cele-  
brating its new Outdoor Science Park  
and the Backyard Monsters and Glass  
Fest exhibits that opened in 2000. This  
year, the museum's exhibits include  
Amusement Park Science and T-Rex:  
King of the Dinosaurs.

SciTech's Hands On Museum allows  
people of all ages (individuals, classes,  
and families) to experience science,  
mathematics and technology in a fun  
and interactive way. The museum also  
offers world-renowned topical traveling  
exhibitions, hosts science clubs, sum-  
mer camps, and other educational pro-  
grams.

SciTech opened to the public in May  
1989. A permanent museum site was  
established at the beginning of 1990.  
Memberships are available for individu-  
als and families.

The museum is located in downtown  
Aurora, IL at 18 W. Benton. For addi-  
tional information, call SciTech at (630)  
859-3434. Also visit <http://scitech.mus.il.us/>.

## 2001 CALL FOR NOMINATIONS: PRESIDENTIAL AWARDS FOR EXCELLENCE IN SCIENCE, MATHEMATICS AND ENGINEERING MENTORING

The Executive Office of the President  
of the United States has established the  
Presidential Awards for Excellence in  
Science, Mathematics and Engineering  
Mentoring (PAESMEM) program. The  
program, administered on behalf of the  
White House by the National Science  
Foundation, seeks to identify outstand-  
ing mentoring efforts/programs  
designed to enhance the participation  
of groups underrepresented in science,  
mathematics and engineering. The  
awardees will serve as exemplars to  
their colleagues and will be leaders in  
the national effort to more fully develop  
the Nation's human resources in sci-  
ence, mathematics and engineering.

Nominations to honor individuals and  
institutions are invited for the 2001  
competition of these annual awards.  
The deadline for nominations is April  
26, 2001.

Contact Marilyn J. Suiter at (703) 292-  
5121, [msuiter@nsf.gov](mailto:msuiter@nsf.gov). The program  
announcement, NSF 01-54, is available  
electronically via NSF's Online Docu-  
ment System at <http://www.nsf.gov/cgi-bin/getpub?nsf0154>.

**DO NOT DELAY  
DATED MATERIAL**

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

## CALENDAR

**April 1-5, 2001:** The American Chemical Society will hold the 221st National Meeting in San Diego, CA. For more information contact the ACS at (202) 872-4396 or <http://www.acs.org/meetings>.

**April 18, 2001:** The Chicago Chemists Club will meet at the Parthenon Restaurant, 312 S. Halsted. The speaker will be Rob Kelter, Litigation Director of the Citizens Utility Board. For additional information, call Walt Kramer at (847) 967-8457.

**May 8-10, 2001:** The 21st Annual Electric Utility Chemistry Workshop, Champaign, IL. For more information, contact K. Anthony Selby at (217) 333-2881 or [bsappenf@uiuc.edu](mailto:bsappenf@uiuc.edu).

**May 18, 2001:** The Chicago Section American Chemical Society will celebrate the presentation of the Willard Gibbs Award. For additional information call the Section Office at (847) 647-8405.

**May 27-31, 2001:** The American Society for Mass Spectrometry (ASMS) will hold its 49th Conference in Chicago, IL. For more information, contact the ASMS at (505) 989-4517 or <http://www.asms.org>.

**June 11-13, 2001:** The Joint Central/Great Lakes Regional Meeting will be held in Grand Rapids, MI. For more information contact R. J. McCabe at (616) 392-2375 ext. 2386 or by email [Richard.McCabe@wl.com](mailto:Richard.McCabe@wl.com).

**June 22, 2001:** The Chicago Section American Chemical Society presents the Annual Education Night. For additional information call the Section Office at (847) 647-8405.

**August 25-29, 2001:** The American Chemical Society will hold the 222nd National Meeting in Chicago, IL. For more information contact the ACS at (202) 872-4396 or <http://www.acs.org/meetings>.

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