

# theCHEMICALbulletin

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

MAY • 2002

**THE NINETY-FIRST PRESENTATION  
OF THE  
WILLARD GIBBS MEDAL  
(Founded by William A. Converse)  
to  
Professor Ralph Hirschmann  
sponsored by the  
CHICAGO SECTION AMERICAN CHEMICAL SOCIETY  
FRIDAY, MAY 24, 2002**

**Argonne Guest House  
Argonne National Laboratory**  
9700 South Cass Avenue  
Building # 460  
Argonne, IL  
630-739-6000

#### **DIRECTIONS TO THE MEETING**

##### **From the City:**

Take Interstate 55 South (towards St. Louis). Exit at South Cass Avenue. Proceed on Cass Avenue south one-quarter mile to the Argonne Laboratory totem pole on the right. Turn right and proceed to the gatehouse and, after checking in, follow signs to the Argonne Guest House.

##### **From the North:**

Take Interstate 294 South to Interstate 55 South (towards St. Louis). Exit at South Cass Avenue. Proceed on Cass Avenue south one-quarter mile to the Argonne Laboratory totem pole on the right. Turn right and proceed to the gatehouse and, after checking in, follow signs to the Argonne Guest House.

**Parking:** Free

**SOCIAL HOUR** 6:00-7:00 P.M.

**Dinner** 7:00 P.M.

Dinner reservations are required. Please send in the form enclosed in this issue to the Chicago Section office at 7173 N. Austin, Niles IL 60614 with your menu choice, your name and affiliation for a nametag, and your check. Be sure to include your address.

**IF YOU ARE NOT A U.S. CITIZEN, PLEASE CONTACT THE ACS Chicago Section Office at (847) 647-8405, BY MAY 14, 2002 WITH THE FOLLOWING INFORMATION SO THAT ARGONNE CAN PROCESS YOUR GATE CLEARANCE:**

**NAME (First, Last)  
BIRTHPLACE (City, State, Country)  
BIRTHDAY (Day, Month, Year)**

**AWARD CERMONY 8:30 PM**

#### **The Willard Gibbs Medal**

Herbert Golinkin, Chair  
Chicago Section, ACS

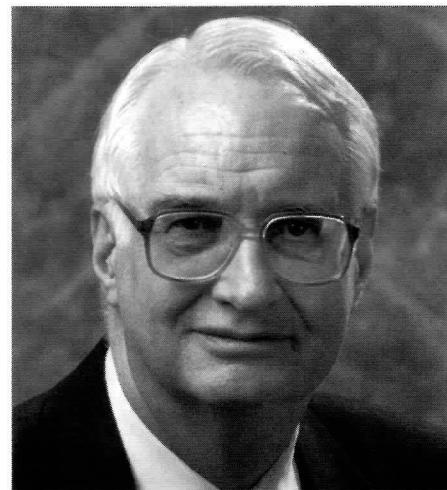
#### **Introduction of the Medalist**

Daniel Rich, Ralph F. Hirschmann Professor of Medicinal and Organic Chemistry  
University of Wisconsin at Madison

#### **Presentation of the Medal**

Eli Pearce  
2002 President  
American Chemical Society

**Citation:** For the first synthesis of an enzyme in solution (RNase); the concept of stereoelectronic control; the use of prodrugs to reduce toxicity; a new approach to the design of peptidomimetics; the discovery of valuable pharmaceuticals including Vasotec, Lisinopril, Primaxin, Ivomec, Mevacor and Proscar.



**PROFESSOR RALPH HIRSCHMANN**

#### **Acceptance of the Award**

Ralph Hirschmann  
Makineni Professor of Bioorganic Chemistry  
University of Pennsylvania

University Professor  
Medical University of South Carolina

#### **ACCEPTANCE ADDRESS**

"The Use of Simple Chemical Concepts to Explain Unexpected Biological Results with Sugar-Based Peptidomimetics"

In 1998 we initiated a program to test the then novel proposition that the  $\beta$ -D-glucose scaffold can be used for the attachment of amino acid sidechains to

(continued on page 2)

(continued from page 1)

generate highly substituted monosaccharides that mimic the biological properties of the corresponding c-hexapeptides. We were able to validate this concept using biological assays. Other biological results were quite unexpected and are now recognized to be the result of unusual properties inherent in the structure of  $\beta$ -D-glucose.

## THE MEDALIST

Born in Bavaria, Germany, Ralph Hirschmann came to the US in his teens. He graduated from Oberlin College before serving in the US Army for three years. He resumed his education at the University of Wisconsin (Madison) with W. S. Johnson as the Sterling Winthrop Fellow (1950). That year he was recruited by M. Tishler to join Process Research at Merck. He discovered the first rearrangement under stereo-electronic control, studied later in detail by E. J. Corey. With R. G. Denkenwalter he directed the first solution synthesis of an enzyme, announced jointly with Merrifield's solid phase synthesis in 1969.

Becoming increasingly interested in medicinal and bioorganic chemistry, he was appointed Executive Director of Medicinal Chemistry at Merck, West Point, PA in 1974 and Vice President/Senior Vice President of Basic Research (Rahway) in 1976/1978, respectively.

His professional activities included serving on the NIH Medicinal Chemistry A Study Section, on several committees of the NSF, NRC and ACS, on over a dozen Editorial and Advisory Boards, and on the Boards of Trustees of Oberlin College, the Gordon Research Conferences, and others.

He holds three honorary Doctor of Science degrees and was elected member of the American Academy of Arts and Sciences and of the National Academy of Sciences. During his tenure as Merck's Head of Basic Research, his colleagues discovered and/or studied such blockbuster drugs as Mevacor, Vasotec, Primaxin and Ivermectin.

In 1988 he was invited to join the Department of Chemistry of the University of Pennsylvania as the first Research Professor in Chemistry. In 1994 he was appointed the Rao Makeni Professor of Bioorganic Chemistry.

## Notice to Illinois Teachers

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

Tickets will be sent to you by mail. Tables for ten are available. If you would like a table for a group, please put their names on a separate sheet. Your name will also be added to a list that will be checked by Argonne Security at their gatehouse. Mention that you are with ACS Chicago.

Seating will be available after the dinner for people interested in hearing the speaker, but you must be registered to get onto the Argonne grounds.

Tickets will be returned by mail if the form is sent in by May 10, 2002. No refunds will be made after noon Tuesday May 21 for cancellations or no-shows.

The cost of the dinner is \$35 for members and guests. The cost to non-members is \$37. There will be no discounts for students or unemployed.

**THE MENU:** Crab Cakes, Mixed Field Greens with Pecans and Buttermilk Dressing; Main course choice of either Oven Roasted Prime Rib Accented with Creamy Horseradish Sauce Accompanied with Garlic Mashed Potatoes and Seasonal Vegetables or Grilled Atlantic Salmon Fillet Served on a Nest of Spaghetti Squash and Winter Vegetables Accented with Tomato Basil Relish; Dessert is Chocolate Oblivion Cake. Wine will be served with dinner.

## IN THIS ISSUE

- 1-2 .....April Dinner Meeting
- 2 .....Chemistry.org
- 3 .....ChemShorts for Kids
- 3 .....Chemistry Teacher Awardee
- 4 .....Gibbs Dinner Invite
- 4 .....Chemunity News
- 4 .....Scientific History Tours
- 5 .....Willard Gibbs Award
- 6 .....Revised Bylaws Approval Notice
- 6 .....Continuing Education Seminars
- 7 .....Planning for the Future of the Section
- 8-10 .....Section's Financial Statements
- 11 .....Market Research Course
- 11 .....Great Lakes Regional Mtg
- 11 .....Ad Index
- 12 .....Calendar

## CHEMISTRY.ORG OFFERS WEEKLY E-MAIL NEWSLETTER

One of the best ways to keep your finger on the pulse of ACS is by visiting chemistry.org, the Website of the American Chemical Society. But busy professionals don't always have the time to keep up with all the new content that's being published on chemistry.org each day. That's why chemistry.org developed a weekly newsletter to bring the latest and greatest content direct to your e-mail address.

Each week, subscribers receive:

- Quick summaries of our feature stories complete with color pictures and live links to full articles;
- A short description of what's new on chemistry.org;
- Links to free articles from *Chemical & Engineering News*, *Modern Drug Discovery*, and *Today's Chemist at Work*;
- Links to the latest offerings from CAS.

The chemistry.org newsletter gives you an efficient summary of the information you want from ACS and lets you decide what to pursue.

Subscribing (and unsubscribing) is free and easy. Just visit chemistry.org and register. Check the "Mailing List" option on the registration form and you'll begin receiving the newsletter the following Monday. If you've already registered on chemistry.org, you can subscribe to the newsletter by editing your profile and checking the "Mailing List" option.

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## "CHEM SHORTS" For Kids

### Lightening with Lemons

Kids, how much do you know about lemons? Here is a very quick and easy test of the power of lemon juice. Have an adult partner make a mug of hot tea for you from a teabag. Use a white or clear mug so that you can easily see the color of the tea. Now take a fresh lemon wedge and squirt in a few drops of the juice. Upon stirring, certain kinds of tea will instantly lighten up considerably, "magically", right before your eyes. In some cases this works so well that you can make a magic trick out of it. Squirt the lemon juice into a spoon first, out of sight, and then stir it in the tea to watch the color change. Try different types of teabags to see which work best. I have found that the best are the so-called "black" teas (see "Chemistry in a Teabag" from this column in October 1998), such as: regular Lipton tea, Superior orange pekoe & pekoe cut black tea, and Pickwick English Blend traditional black tea.

What appears to be happening is a type of mild bleaching process. In fact, the vitamin C (ascorbic acid) in lemons is known to be a bleach (see another one of our columns, "Clearly it's Vitamin C" from October 1999). Bleaching is the process of removing the natural color of something (cloth, paper, wood, food, etc.). Chemists call the processes either "oxidizing" or "reducing". Vitamin C is an organic compound, which means that it contains carbon, hydrogen, and oxygen (the formula is actually  $C_6H_8O_6$ ). It happens to oxidize very easily, which means that it is a good reducing agent. Tannins or other highly colored organic molecules in the tea are reduced when the ascorbic acid is oxidized.

If you were to stain a white cotton rag with some black tea and let it dry, you could try to remove it by spotting with lemon juice and letting it dry in the sun before washing. This might also work if tea were to accidentally stain a t-shirt, tablecloth, or linen napkin.

Reference: Check <http://library.thinkquest.org/27034> for all kinds of bleaching.

Submitted by Dr. K. A. CARRADO. All past "ChemShorts": <http://membership.acs.org/C/Chicago/ChmShort/kidin dex.html>.

## 2002 ACS Great Lakes Regional High School Chem- istry Teacher Award

Ann Levinson is the 2002 winner of the Regional High School Chemistry Teacher Award. She has just recently joined the staff of the Chicagoland Jewish High School in Morton Grove, after a number of years at Niles Township High School in Skokie. Ann has received a number of awards during her career, among them the Davidson Award for Outstanding Chemistry Teacher in Illinois, and recognition by the U.S. Chemistry Olympiad Committee and the ACS Chicago Section.

She believes that "all can learn chemistry" and her success supports that belief. Her approach in the classroom is guided by the ACS Olympiad standards, wherein she combines basic drill in classical chemistry with computer-based laboratory sessions. Further, she demonstrates to her students that science in general and chemistry in particular are invaluable assets in better understanding the world around them and how the scientific methods can be applied in making decisions based on available data in many aspects of life.

Her classes have won gold and silver medals in the International Chemistry Olympiad, taken top scores on the A. P. chemistry exams, taken advantage of research opportunities at nearby universities and laboratories, won scholarships, and volunteered to work with the "Demos for Grade Schools" program.

Ms. Levinson provides an atmosphere of cooperative learning as a self-directed process, and she emphasizes the need for proficiency in scientific writing. She also brings in environmental chemistry through the use of microscale chemistry in the laboratory. This approach, combined with her enthusiasm, has proven its effectiveness in the increase of young women signing up for her classes—an increase over the years of from 5% to 50%!

Ann will be presented the award at the Great Lakes Regional Meeting in Minneapolis, MN in June.

## HIGH SCHOOL EDUCATION COMMITTEE WEBSITE

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

<http://www.glenbard.dupage.k12.il.us/south/staff/heinz/ACS/acshome.htm>.

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

May, 2002 Vol. 89, No. 5. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor, and Fran Kravitz; Ellen Sullivan, Business Manager. Address: 7173 North Austin, Niles, Illinois 60714. 847/647-8405. Subscription rates: \$15 per year, \$15 outside North America. Frequency: monthly-September through June.

## CONTACT THE CHAIR

Do you have any questions, suggestions, ideas, gripes, complaints, relating to the Chicago Section? Do you want to volunteer to help 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. I look forward to hearing from you.

HERB GOLINKIN  
Chair

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## AMERICAN CHEMICAL SOCIETY CHICAGO SECTION



### 2002 WILLARD GIBBS MEDAL AWARD PRESENTATION

**Friday, May 24, 2002**

You and your guest(s) are cordially invited to attend the 91<sup>st</sup> presentation of the Josiah Willard Gibbs Medal to Professor Ralph Hirschmann, the Rao Makineni Chair of Bio-Organic Chemistry at the University of Pennsylvania, on Friday, May 24, 2002, at the Argonne Guest House, 9700 S. Cass Ave., Bldg. 460, Argonne, Illinois. A social hour begins at 6 PM. Dinner is served at 7 PM. Dr. Hirschmann's talk will begin at approximately 8:30 PM.

Dinner for this special occasion, includes Crab Cakes Mixed Field Greens with Pecans and Buttermilk Dressing; a choice of Oven Roasted Prime Rib Accented with Creamy Horseradish Sauce or Grilled Atlantic Salmon Filet; and Chocolate Oblivion Cake. (A vegetarian entrée is available on request.)

To reserve your tickets, please fill out the attached reservation form and mail it 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 of the people in your group. Tickets and nametags will be mailed to those whose orders are received by May 14. Your name will be added to a list that will be checked by Argonne Security at their gatehouse. No refunds will be made after noon Tuesday, May 21.

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. Hirschmann's achievements in and contributions to the science of chemistry.

**Angela Kowalski**  
**Gibbs Arrangements Committee**

#### 2002 GIBBS DINNER RESERVATION FORM

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

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

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

Number of dinners: Prime Rib \_\_\_\_\_ Salmon \_\_\_\_\_ Vegetarian \_\_\_\_\_

Total Enclosed (include check): \$ \_\_\_\_\_ Please include a list of your guest's names, affiliations, and dinner selection with this form.

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

**NON-U.S. CITIZENS: PLEASE CONTACT THE ACS OFFICE AT 847-647-8405 BY MAY 3.**

### CHEMUNITY NEWS NOW AVAILABLE!

The Winter 2001/2002 online edition of Chemunity News, the ACS newsletter that connects chemistry educators to the activities of the ACS Education and International Activities Division, is now available. As with the former paper version of this newsletter, staff hopes to provide chemists interested in education programs with timely news about the programs and services at ACS and occasionally include some thought-provoking insights and commentaries on national issues in chemistry education. The goal is to publish a new issue every two months. If you would like to receive an email reminder when new issues are available, please email [education@acs.org](mailto:education@acs.org) with your contact information.

### Scientific History Tours

Science teachers and other interested persons are invited to explore the scientific heritage of France and Switzerland in a custom-designed two-week trip from June 19 until July 3, 2002. Participants will visit science museums, Pasteur's birthplace, a vineyard, CERN (the European particle physics lab) and other special places. Lectures on topics of special interest will be given at various venues by experts in scientific and other subjects. The tour is arranged by Science History Tours, a nonprofit organization run by Yvonne Twomey of Naperville, IL.

For more information, contact Twomey at 841 Kinston Court, Naperville, IL 60540, 630-961-9811 or Lee Marek, 630-420-7516, [LMarek@aol.com](mailto:LMarek@aol.com).

PLEASE NOTE: Yvonne Twomey's email address has changed to [ytwomey@mindspring.com](mailto:ytwomey@mindspring.com).

### Free Links to Journal Articles in C&EN

Chemical & Engineering News Online, <http://pubs.acs.org/cen>, offers free links to journal articles in a growing number of publications. Links to journal references in C&EN articles include not only ACS journals, but also journals published by the Royal Society of Chemistry (such as *Chemical Communications*) and *Angewandte* published by Wiley-VCH. Readers do not need to be subscribers to these journals to read the linked journal articles. If you have any questions, contact Melody Voith, Online Editor, Chemical & Engineering News, 1155 16th St., NW, Washington, DC 20036; <http://pubs.acs.org/cen>; phone: 202-872-4406; fax: 202-872-8727.

## 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.

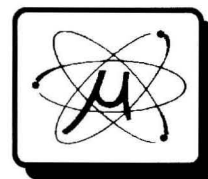
The purpose of the award is "To publicly recognize eminent chemists who, through years of application and devotion, have brought to the world developments that enable everyone to live more comfortably and to understand this world better." Medalists are selected by a national jury of eminent chemists from different disciplines. The nominee must be a chemist who, because of the preeminence 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	Kenneth S. Pitzer	1976
Theodore W. Richards	1912	Melvin Calvin	1977
Leo H. Baekeland	1913	W. O. Baker	1978
Ira Remsen	1914	E. Bright Wilson	1979
Arthur A. Noyes	1915	Frank Albert Cotton	1980
Willis R. Whitney	1916	Bert Lester Vallee	1981
Edward W. Morley	1917	Gilbert Stork	1982
William M. Burton	1918	John D. Roberts	1983
William A. Noyes	1919	Elias J. Corey	1984
F. G. Cottrell	1920	Donald J. Cram	1985
Mme. Marie Curie	1921	Jack Halpern	1986
Julius Stieglitz	1923	Allen J. Bard	1987
Gilbert N. Lewis	1924	Rudolph A. Marcus	1988
Moses Gomberg	1925	Richard B. Bernstein	1989
Sir James Colquhoun Irvine	1926	Richard N. Zare	1990
John Jacob Abel	1927	Gunther Wilke	1991
William Draper Harkins	1928	Harry B. Gray	1992
Claude Silbert Hudson	1929	Peter B. Dervan	1993
Irving Langmuir	1930	M. Frederick Hawthorne	1994
Phoebus A. Levene	1931	Sir John Meurig Thomas	1995
Edward Curtis Franklin	1932	Fred Basolo	1996
Richard Willstatter	1933	Carl Djerassi	1997
Harold Clayton Urey	1934	Mario J. Molina	1998
Charles August Kraus	1935	Lawrence F. Dahl	1999
Roger Adams	1936	Nicholas J. Turro	2000
Herbert Newby McCoy	1937	Tobin J. Marks	2001
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 Hammett	1961		
Lars Onsager	1962		
Paul D. Bartlett	1963		
Izaak M. Kolthoff	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		



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## REVISED BYLAWS APPROVAL NOTICE

At the March 14, 2002 Chicago Section's Board of Directors' Meeting, the following motion was made, seconded, and carried: That the Chicago Section submit the proposed revisions to the Bylaws to the Section membership for review at the April, May, and June Section meetings and for approval at the June Section meeting with implementation on July 1, 2002. The main effect of these changes will be the change of the Section's fiscal and programming year from the current coincidence with the academic year [July through June] to coincide with the calendar year [January through December]. The administration taking office on July 1, 2002 will serve for eighteen (18) months during the transition. There will be a six-month fiscal year from July 1, 2002 through December 31, 2002 followed by the normal 12-month fiscal year from January 1, 2003 through December 31, 2003.

The revised bylaws will be posted on the Section's website and will be available in hard copy for the members at the April, May and June Section meetings.

HERBERT S. GOLINKIN, Section Chair

## CONTINUING EDUCATION SEMINARS

The Continuing Education and Professional Relations Committees are continuing the series of short courses held on Saturday mornings, 9:00 to 12:00, at Loyola University, 6525 N. Sheridan Rd., Cudahy Science Building (building with the green dome), room 202.

The program on June 8 will be "FT-IR Sample Handling - Methods and Accessories" and deal mainly with reflectance techniques including the advantages of the reflectance accessories and the limitations when using them. The speaker is Dr. Richard Larsen, founder of Spectral Consulting in Lakewood, N.J.

The cost for the course is \$10 (free for students and unemployed chemists). The course carries three hours of CPDU credit for teachers.

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.



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## Planning for the Future of the Chicago Section

Over the years, members of the Chicago Section of the ACS have gotten together to plan for the future of the section. At a recent discussion of the future of the section, members decided on four areas that they felt needed some improvement or new ideas in order to meet the needs of our membership in the future. These four areas are member participation, education, communication (either bulletin and/or webpage), and career development/employment services. A series of task forces will begin work to make recommendations in time for our next Chair to implement changes. If you are interested in providing input on any of these topics, or you are interested in being a member of any of these task forces, please contact the person given below. An asterisk and email address is after the person's name who will be the contact point for each task force.

Thank you in advance for your help in shaping the future of our local section.

The task forces will meet by May 31, 2002 and report back to the Long-Range Planning Committee with a purpose, current programs, and how improvements could be made.

### Increased Member Participation:

Susan Shih\* (shihsu@cdnet.cod.edu)  
Margaret Levenberg  
Steve Sichak  
Gayle O'Neill

### Employment / Career Development:

Jim Shoffner\* (Jshoff@email.msn.com)  
Herb Golinkin  
Tom Kucera  
Seymour Patinkin

### Communication:

Russ Johnson\* (russellw.johnson@honeywell.com)  
Mark Cesa  
Cherlyn Bradley  
Frank Jarambowski  
Milt Levenberg

### Education:

Fran Kravitz\* (fk1456@aol.com)  
Fred Turner  
Barb Moriarty

## Project SEED Handbook Online

The Project SEED Student, Mentor and Coordinator Handbook is available online at [www.acs.org/education/student/projectseed.html](http://www.acs.org/education/student/projectseed.html).

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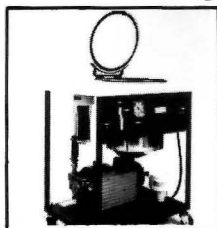
Vacuum Inlet Traps



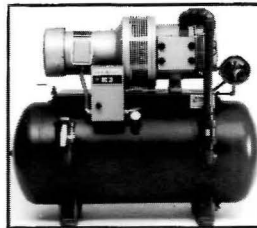
Oil Filtration Systems

- MV Products offer you a full line of Oil Mist Eliminators, Vacuum Inlet Traps, Oil Filtration Systems and other quality vacuum products designed to assure your vacuum pumps a long life and you a clean and healthy environment.
- MV Oil Mist Eliminators remove oily haze from vacuum pump exhaust, protect the surrounding areas and the room air you breath.
- MV Vacuum Inlet Traps protect your vacuum pump from corrosive and abrasive elements and can be tailored to your specific application requirements.
- Oil Filtration Systems remove acids, corrosives and contaminants from pump fluids thus reducing maintenance cost and prolong pump life.

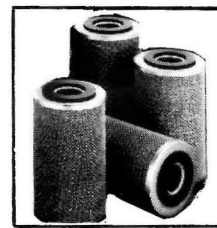
## Other Quality Vacuum Products



Vacuum Degassing Chambers



Central Source Vacuum System



Filters

FOR MORE INFORMATION ON THESE AND OTHER FINE VACUUM PRODUCTS CONTACT



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**CHICAGO SECTION AMERICAN CHEMICAL SOCIETY**  
**STATEMENT OF REVENUES AND EXPENSES**  
**FOR THE YEAR ENDED JUNE 30, 2001 & 2000**

	<u>06/30/01</u>	<u>06/30/00</u>
<b>REVENUES</b>		
Local Section Dues	47,527	41,170
National Allotments and Commissions	24,101	24,056
Chemical Bulletin Ad Income	16,297	11,200
Scholarships Received	16,836	1,250
Donations	3,400	530
Investment Income	25,000	40,000
Miscellaneous		1,482
	<hr/>	<hr/>
Total Revenues	133,161	119,688
 <b>OPERATING EXPENSES</b>		
Awards	2,163	211
Board & Adhoc Comm.	439	0
Chair & chair elect	449	556
Chemical Bulletin expenses	37,548	28,658
Chicago Chemistry week	406	433
Contributions	0	0
Councilor expenses	9,481	538
Employee benefits	40	1,200
Endowment	75	1
Gibbs Award Ceremony	(268)	2,101
Great Lakes Regional Meeting	0	212
Hospitality	845	365
House	958	2,896
H.S. & College Education	567	2,888
Kids & Chemistry	0	1,074
Membership	30	0
Minority affairs	1,999	806
National Affairs	0	0
Office expenses	2,021	2,122
Program	1,326	2,291
Public affairs	1,100	815
Public Relations	0	58
Rent & Telephone	6,330	5,894
Salaries	44,660	39,173
Scholarships	16,415	8,750
Secretary expenses	5,426	8,817
Subsidized dinners	921	1,139
Treasurer expenses	82	5,480
Uncategorized Expenses	0	7
Younger chemists committee	795	193
	<hr/>	<hr/>
	134,166	116,678
	(1,005)	3,010

These statements are unaudited.



## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

## BALANCE SHEET

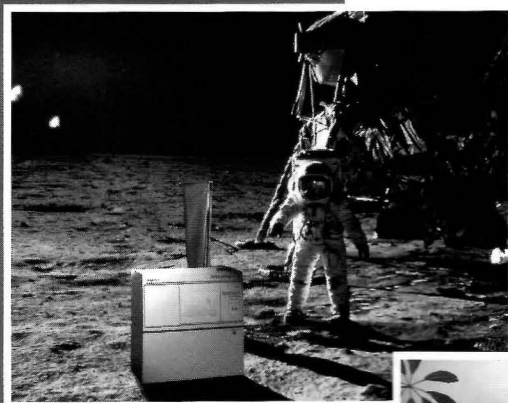
June 30, 2001 &amp; 2000

	<u>06/30/01</u>	<u>06/30/00</u>
<b>ASSETS</b>		
Cash in Bank	15,151	24,920
Cash on Hand	715	400
Accounts Receivable	764	5,679
Inventory	4,911	0
Prepaid Expenses	0	0
Stocks at cost	287,284	371,951
Mutual Funds at cost	226,678	194,021
Bonds at cost	46,433	0
Money Market Funds & Cash	90,883	75,016
Accumulated Unrealized Market Appreciation	466,433	327,229
Total Assets	1,139,252	999,216
<b>LIABILITIES AND SURPLUS</b>		
<b>Liabilities</b>		
Accounts Payable	0	4,214
Total Liabilities	0	4,214
<b>Funds</b>		
Holding Fund	2,978	2,978
Meeting Place Reserve Fund	187,142	164,457
Contingent Reserve Fund	77,032	67,695
Exposition Reserve Fund	55,439	136,597
Scholarship Operating Fund	424,777	357,276
General Endowment Fund	46,594	40,946
Willard Gibbs Endowment Fund	48,815	44,464
Ipatieff Library Endowment Fund	23,755	21,638
Scholarship Endowment Fund	125,063	113,916
Marie Lishka Scholarship Fund	12,350	10,533
Henrietta Z. Freud Trust Endow. Fund	11,741	10,694
Marshall S. Smoler Fund	5,000	
Total Endowment Funds	1,120,688	971,194
<b>Surplus</b>		
Surplus	18,564	23,808
Total Surplus	18,564	23,808
Total Liabilities and Surplus	1,139,252	999,216

These statements are unaudited.

**CHICAGO SECTION AMERICAN CHEMICAL SOCIETY  
FIVE YEAR FUND BALANCES**

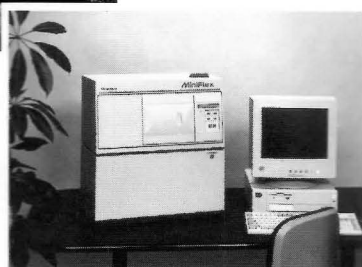
<b>Fund</b>	<b>FY2001</b>	<b>FY2000</b>	<b>FY1999</b>	<b>FY1998</b>	<b>FY1997</b>
<b>Reserve Funds</b>					
Meeting Place	187,142	155,632	156,385	59,309	165,912
Contingent	77,032	64,062	64,732	65,576	68,294
Exposition	155,439	129,268	129,893	132,321	137,806
<b>Scholarship Operating Fund</b>	<b>424,777</b>	<b>341,388</b>	<b>302,077</b>	<b>261,711</b>	<b>225,571</b>
<b>Endowment Funds</b>					
General	46,594	38,749	38,936	39,660	41,304
Gibbs	48,815	36,925	36,925	6,905	37,005
Ipatieff	23,755	20,562	20,562	20,550	20,606
Scholarship	125,063	108,250	108,250	108,189	108,482
Maria Lishka Scholarship	12,350	9,899	9,419	8,688	8,451
Henrietta Z. Freud Trust	11,741	10,006	10,006	10,000	
Marshall S. Smoler	5,000				
<b>Total</b>	<b>1,117,708</b>	<b>914,740</b>	<b>877,185</b>	<b>842,909</b>	<b>813,431</b>



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Rigaku's Miniflex™ was not available for the Apollo program which sampled 6 lunar sites or the un-manned Soviet Luna program which sampled 3 sites, but maybe next time.

## Market Research Course Provides Hands-On Workshops

In this era of intense global competition, the need for accurate market information and intelligence is imperative. As a result, The Commercial Development and Marketing Association Educational Foundation (CDMAEF) is pleased to announce another in its series of highly successful market research programs.

The Basic Market Research Short Course is being offered from June 11-13, 2002, at the Marriott Hickory Ridge Conference Center, Lisle, IL. The course, intended primarily for professionals who are new to the practice of business-to-business market research in the chemical and allied industries, combines classroom instruction by seasoned professionals with hands-on workshops.

Emphasizing practical training in conducting a market research assignment, the course will allow participants to practice the concepts and skills taught in the lectures by completing "real-world" market research assignments in the workshop sessions. Company teams can maximize the value of the techniques learned by attending together and participating in the workshop exercises as a team. The course curriculum includes:

- Planning a market research program
- How to find market intelligence on the Internet and in print media
- How to conduct in-person and telephone interviews
- How to construct surveys and questionnaires
- How and when to engage consultants
- Analyzing market research results
- How to make an effective business presentation


The course fee is \$1,095 for CDMA members and \$1,295 for non-members. Non-members who attend the course will receive a one-year free trial membership in the CDMA.

Further information may be obtained by contacting CDMA National Headquarters by calling Vaughn Wurst at 215-564-3484 or by logging on to [www.cdmaonline.org](http://www.cdmaonline.org).

## GLRM 2002 Meeting Announcement

The 34th Great Lakes Regional Meeting of the ACS will be June 2-4, 2002 in Minneapolis, MN.

This year's meeting is organized around the theme of Chemistry at the Interface.

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The program features a Plenary Session with seminars given by prominent researchers who are working at the interfaces of chemistry and environmental science, biology, computational chemistry and nanotechnology. Special symposia have also been organized around these interfacial disciplines.


Meeting website: <http://www.chem.umn.edu/glrm>

## 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

## Advertising Index

Company	Page	Telephone	URL
Stonebridge Holistic Consulting Agency, Ltd	2	877-283-3344	<a href="http://www.StonebridgeHolistic.com/labassist.nsf">www.Stonebridge Holistic.com/labassist.nsf</a>
Northup RTS	3	847-579-0049	<a href="http://www.toxconsultants.com">www.toxconsultants.com</a>
Micron Inc.	5	302-998-1184	<a href="http://www.micronanalytical.com">www.micronanalytical.com</a>
TEI Analytical, Inc.	6	847-647-1345	<a href="http://www.teianalytical.com">www.teianalytical.com</a>
Mass-Vac, Inc.	7	978-667-2393	<a href="http://www.massvac.com">www.massvac.com</a>
Rigaku MSC	10	281-363-1033	<a href="http://www.RigakuMSC.com">www.RigakuMSC.com</a>
Jordi Associates, Inc.	11	508-966-1301	<a href="http://www.jordiassoc.com">www.jordiassoc.com</a>
Desert Analytics	11	520-623-3381	<a href="http://www.desertanalytics.com">www.desertanalytics.com</a>

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	E-mail: <a href="mailto:thelab@desertanalytics.com">thelab@desertanalytics.com</a>	
	<b>ANALYSIS FOR THE CHEMICAL ELEMENTS</b>	

<http://chemistry.org/committees/ccs>. Check it out for publications on laboratory safety for K-12, colleges, industrial labs, and small businesses.

## SECTION DINNER MEETING DATES FOR 2002-2003

The House and Program Committees, with the consensus of the Board of Directors, have set the following dates for the Section dinner meetings during 2002-2003:

2002	2003
September 20	January 24
October 18	February 21
November 22	March 14
December 13	April 25
	May 16
	June 20

## CALENDAR

**May 4, 2002:** The 2002 High School Scholarship Exam will be given at Loyola University. For further information, contact Ami LeFevre at [amilef@niles-hs.k12.il.us](mailto:amilef@niles-hs.k12.il.us).

**June 2-4, 2002:** The Great Lakes Regional Meeting will be held in Minneapolis, MN. For further information, contact Kristopher McNeill at (612)625-0781, email: [mcneill@chem.umn.edu](mailto:mcneill@chem.umn.edu).

**June 8, 2002:** A Continuing Education short course on FT-IR Sample Handling - Methods and Accessories, given by Dr. Richard Larsen, will be held at Loyola University, 6525 N. Sheridan Rd., Cudahy Science Building (building with the green dome), room 202 from 9:00 a.m. to 12:00 p.m. **See article in this issue.**

**June 11-13, 2002:** A Basic Market Research Short Course will be given at the Marriott Hickory Ridge Conference Center in Lisle. For further information, contact Vaughn Wurst at (215) 564-3484 or go to [www.cdmaonline.org](http://www.cdmaonline.org).

**June 21, 2002:** The Chicago Section American Chemical Society will present the Annual Education Night. Topic: America's Funniest Chemical Videos.

**June 24-27, 2002:** The 6th Annual Green Chemistry and Engineering Conference will take place in Washington, DC. For further information, call (202) 452-2138 or send email to [p\\_taylor@acs.org](mailto:p_taylor@acs.org).

**August 18-22, 2002:** The 224th National ACS Fall Meeting will be held in Boston, MA. For further information, call the National ACS office at (202) 872-6059 or send e-mail to [natlmtgs@acs.org](mailto:natlmtgs@acs.org).

**September 10-13, 2002:** The 98th Gulf Coast Conference will take place in Galveston, TX at the Galveston Island Convention Center. For further information, call (281) 319-4646 or send email to [GCC@GulfCoastConference.com](mailto:GCC@GulfCoastConference.com).

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

**October 16, 2002:** ALMA (Analytical Laboratory Managers Association) will have its 23rd annual conference in St. Louis, MO. More information is available at the website [www.labmanagers.com](http://www.labmanagers.com).

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

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

### REGISTER TO ATTEND MONTHLY SECTION MEETINGS

ON LINE

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

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