

theCHEMICALbulletin

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APRIL • 2002

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Regular Monthly Meeting

FRIDAY, APRIL 19, 2002

Monastero's Ristorante
3935 W. Devon Ave.
Chicago, IL
773-588-2515

DIRECTIONS TO THE MEETING

Take I-94 (Edens Expressway) to either Touhy Avenue East or Peterson Avenue East exit. These exits drop you off at Cicero Avenue. If you exit at Peterson Avenue, go 1/2 mile north on Cicero to Devon Avenue. If you exit at Touhy Avenue, go south on Cicero one mile to Devon Avenue. Go east on Devon Avenue just past Pulaski Avenue (about 1/2 block). The restaurant is on the south side of the street.

PARKING: Free valet parking available.

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

DINNER 7:00 P.M.
Botticelli Room

Menu: Fresh Fruit Cup; Dinner Salad with choice of Italian or Creamy Garlic Dressing; choice of either Roast Tenderloin of Beef with Marsala Sauce, Broiled Salmon with Limone Sauce, or Penne Pasta with Tomato Sauce; Broccoli and Glazed Carrots; rolls and butter; Spumoni Ice Cream; beverage.

Dinner reservations are required and should be received in the Section Office via phone (847-588-3322), fax (847-647-8364), or website (<http://membership.acs.org/C/Chicago>) by noon on Tuesday, April 16, 2002. The dinner cost is \$30.00 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$32.00. The cost to stu-

dents and unemployed members is \$15.00. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

GENERAL MEETING 8:00 P.M.

PRESENTATION OF 50 YEAR AWARDS

DISTINGUISHED SERVICE AWARD to:
DR. CHERLYNLA VAUGHN BRADLEY
(see page 7)

GENERAL MEETING SPEAKER



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

Title: Science & Technology in the State Department after September 11.

Abstract: A 1999 Report of the National Academy of Sciences (NAS) on Science and Technology (S&T) in U.S. foreign policy asserted that of the 16 stated goals of U.S. foreign policy, 13 of them involve considerations of science, technology or health (STH), and

that the Department of State (DOS) is inadequately equipped to integrate these STH considerations into the foreign policy process. One of the report's recommendations was the appointment of an S&T Adviser to the Secretary, who would drive the process of increasing the S&T capacity of the DOS to deal with such issues.

The subject matter is limitless—the global pandemic of AIDS and other infectious diseases; the role of S&T in sustainable development; proliferation of weapons of mass destruction; environmental challenges such as global warming, clean water, and declining fish stocks; global trade in genetically modified foods; export controls on critical technologies; and global regimes for satellite applications—just to name a few. There is also the active development of S&T cooperation with other nations. Cooperation on urgent problems of common interest can strengthen political ties with other countries.

Furthermore, pooling of limited national resources among nations has become essential for “big S&T” programs, such as the latest high energy physics machine or the development of controlled nuclear fusion as a future source of energy.

Since the tragedy of September 11, there is a new dimension in these relationships — building a worldwide coalition against terrorism, cooperating on cybersecurity to protect global informa-

(continued on page 2)

NOTICE TO ILLINOIS TEACHERS

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

(continued from page 1)

tion networks, using technology against the threat of terrorist acts inside the U.S., and more effectively, and responsibly, controlling movement of people across U.S. borders.

It has become apparent that there are three pillars of U.S. national security—intelligence, diplomacy and military preparedness—the warfighters. S&T underlies each of these pillars. And in a world that is not the “New World Order” that we used to hear about, but a world of inordinate disorder, an extra burden is placed on diplomacy. Diplomacy is the last stop before war. When the talking stops, the shooting starts. And the Department of State must be recognized as a vital instrument of national security and budgeted for accordingly. State also needs the advice, counsel and involvement of the nation’s S&T community in carrying out its global responsibilities.

Biography: Dr. Norman P. Neureiter was sworn in as Science and Technology Adviser to the Secretary of State on September 19, 2000. A Ph.D. organic chemist, Dr. Neureiter has extensive experience in government and industry, and a public policy background that includes close ties to academia. Since taking early retirement in 1996 from Texas Instruments (TI), where he was Vice President of TI Asia, Dr. Neureiter has served as U.S. co-chair of the U.S.-Japan Joint High Level Advisory Committee, a body of leading university and industry representatives that advises the U.S. and Japanese governments on science and technology (S&T) matters under the auspices of the U.S.-Japan Science and Technology Agreement. Concurrently, he served as a U.S. Commissioner of the Maria Sklodowska-Curie Joint Fund II, which supports cooperative S&T research between Polish and U.S. scientists under the U.S. Science and Technology Agreement with Poland.

In 1998, Dr. Neureiter was appointed to the Committee on International Space Programs of the National Academy of Sciences/National Research Council’s Space Studies Board. Dr. Neureiter has also served as Director (and past president) of the Dallas Council on World Affairs, a Director (and past president) of the Japan-America Society of Dallas/Fort Worth, and Vice-Chairman of the Board of the Council on International Educational Exchange (CIEE) in New York. From 1973 to 1996, Dr. Neureiter held a variety of positions in Texas Instruments, including Director of East-West Business Development, Manager of International Business Development, and Manager of the TI Europe Division. As Vice President for Corporate Staff, he was the compa-

ny’s principal spokesperson throughout the world from 1980-1989. From 1989 until 1996, he served as a Director of TI Japan, and Vice President of TI Asia.

Prior to his work with private industry, Dr. Neureiter worked as International Affairs Assistant in the White House Office of Science and Technology during 1969-1973, reporting to the President’s Science Adviser. In this capacity, he was deeply involved in preparing agreements on cooperation in science and technology initiated in 1972-1973 by President Nixon with the leaders of the Soviet Union and the People’s Republic of China. Dr. Neureiter entered the U.S. Foreign Service in 1965, serving as Deputy Science Attaché in the U.S. Embassy in Bonn, Germany. From 1967-1969, he was the first U.S. Science Attaché in Eastern Europe, based at the U.S. Embassy, Warsaw, with responsibility for Hungary, Czechoslovakia and Poland. From 1963 to 1965, Dr. Neureiter worked in the International Affairs Office of the National Science Foundation (NSF) in Washington, D.C. He became Program Director of the U.S.-Japan Cooperative Science Program, created at the initiative of President Kennedy and Japanese Prime Minister Ikeda to encourage closer relations between the scientific communities of the two countries.

Norman Neureiter joined Humble Oil and Refining Company (now part of Exxon Corporation) in 1957 as a research chemist. His research work was in the fields of butadiene chemistry, organic sulfur compounds and the development of antioxidant systems for polypropylene. He registered ten patents and authored a number of scientific publications in the field of organic reaction mechanisms. In addition, from 1957-1960, he was an instructor in German and Russian at the University of Houston. On leave from Humble Oil in 1959, he served the U.S. Government as a guide at the U.S. National Exhibition in Moscow, becoming also a part-time Russian-English escort interpreter for the U.S. Department of State.

Norman Neureiter received a Bachelor of Science degree in chemistry from the University of Rochester (N.Y.) in 1952 and a Ph.D. in organic chemistry from Northwestern University in 1957. In 1955-1956, he was a Fulbright Fellow at the Institute for Organic Chemistry at the University of Munich, Germany. Dr. Neureiter was born in Macomb, Illinois, on January 24, 1932, and grew up in Geneseo, New York. He reads and speaks German, Russian, Polish, French, Spanish and Japanese. He is married to the former Georgine Reid, and has four children.

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"CHEM SHORTS" For Kids

Heat Packs and Supercooling

Kids, there is a cool (okay, not really) product available on the market for a reusable heat pack/handwarmer that is loaded with chemistry-in-action ability. It's called a "Zap Pac Heat Pack" (contact info below). While a monetary investment is required, it dramatically and safely showcases the phenomena of both supercooling and an exothermic reaction.

These products consist of a concentrated aqueous salt solution together with a flexible metallic activator strip (usually stainless steel) in a sealed, flexible container. Sodium acetate and calcium nitrate are examples of suitable salts (Zap Pacs use the former). These salts are much more soluble in hot water than in cold water. The flexible metal strip is bent back and forth a few times, whereupon a white cloud of crystals begins to precipitate. Within seconds, the entire pack is filled up with solid crystalline needles of sodium acetate without any solution left, and the temperature raises to 130°F for about 30 minutes. Because heat is released upon this precipitation, it is called an exothermic reaction (the opposite is called an endothermic reaction).

Supercooled liquids can be cooled below their normal freezing point without turning solid. Then, at the flick of a button, the supercooled liquid is triggered to solidify (crystallize) and at the same time release large amounts of heat. Salt solutions that have been processed in such a way that their temperature can be lowered well below their solidification (or melting) temperature and still remain in liquid are defined as supercooled or metastable liquids. The triggering device initiates the rapid solidification of the solution. In the case of salt solutions that release or absorb large amounts of energy during phase changes (common table salt, sodium chloride, does not do this), the solidification process is a rapid crystallization that releases large amount of heat at the salt solution's normal melting temperature.

The activator is a thin metal piece with ridges and a specially roughened surface. The flexing causes metal-to-metal contact that releases one or more very tiny particles of metal from the roughened surface. This acts as a nesting site for one crystal deposited from the solution and (voilà!) all of the crystals fall out instantly.

These heat packs are reusable because, by re-heating the pack in boiling water for a few minutes, the salt redissolves and the pack again contains a clear solution. (Be sure to have an adult partner help you with this part). Best of

all, the activator strip can be reused dozens of times!

Submitted by DR. K. A. CARRADO

Reference: Prism Enterprises, Inc., P.O. Box 680728, San Antonio, TX 78268, (210) 520-8051 (www.heatandcomfort.com). See C. Manker's U.S. patent #4,872,442 and also www.pcm-solutions.com/superc.html for more insight. Thanks to Joe Gregar for telling us about this product.

ELECTIONS FOR 2002-2003 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 19, 2002 Section meeting.

Frank Jarzembowski
Chair, Nominating Committee

CHAIR-ELECT
Bob Shone
Milt Levenberg

VICE-CHAIR
Inara Brubaker
Jennifer Horne

TREASURER
Mark Cesa
Frank Jarzembowski

SECRETARY
Keith KostECKA
Eric Ryden

DIRECTORS (7 to be elected)
David Crumrine
Sharon Northup
Avrom Litin
Steve Sichak
Robert Scott
Marsha Phillips
Adele Rozek
Marilyn Kouba
Jerome Brozek
Larry Thielen
Christine Russell
Margaret Stowell Levenberg
Luke Augustine
Mark Cunningham

AWARD

Ann Levinson is the winner of the ACS Award in High School Chemistry Teaching for the Great Lakes Region. She will be presented the award at the Great Lakes Regional Meeting in Minneapolis, MN in June.

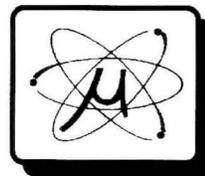
Congratulations

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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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WCC CELEBRATES ITS 75TH ANNIVERSARY

"Diversity in the 21st Century-Advancing Women in Science" is the theme of the WCC Diamond Jubilee planned for the 2002 ACS national and regional meetings in honor of the committee's 75th anniversary.

The celebration will be highlighted in a Presidential Plenary event and multiple symposia at the ACS Spring National Meeting in Orlando. The plenary event will feature high-profile speakers such as Marye Ann Fox, Chancellor, North Carolina State University; Stephen A. Di Biase, Vice President of PuriNOx (tm) and Emulsified Products, Lubrizol Corp.; and, Fran Keeth, CEO and President, Shell Chemical. Other symposia planned are: Women in Inorganic Chemistry; Collaborations: Networking; Collaborations: Professional Organizations; Early Careers of Chemists; Eli Lilly/WCC Travel Awards: Past and Present; Women Scientists of the Manhattan Project Era; In Memoriam: Nina Roscher - Teacher, Historian, Mentor & Role Model; Chemically Incorrect: Hitting the Glass Ceiling; and, Mentoring: A Strategic Tool for Professional Development.

The Women in Industry Breakfast will consist of roundtable discussions on the topic of "Rules of the Game", followed by speakers who will address this subject at the Industry Pavilion. The Women Chemists Luncheon will feature Marion Thurnauer, Director of Chemistry, Argonne National Lab, and recipient of the 2002 Garvan-Olin Medal, as their keynote speaker.

To bring the 75th anniversary celebration to the regional level, and in keeping with the Presidential theme of diversity, the WCC has created a regional award to recognize individuals who significantly foster diversity in the chemical enterprises. The award will be given without regard to age, gender, or nationality of the recipient at each ACS regional meeting in 2002.

For further information and updates, please visit the WCC Web site at <http://membership.acs.org/W/WCC>.

FREE T-SHIRTS

The Hospitality Committee raffles one T-shirt at each monthly dinner meeting. The shirt has Chicago spelled out using the periodic table. So come to a monthly meeting and maybe you can win one.

Congratulations to T-shirt winner Linda Sulicz (February meeting).

FRAN KAREN KRAVITZ
HOSPITALITY COMMITTEE 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 91st 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.

ACS SCHOLARS

Congratulations to the following
2001-2002 ACS Scholars:

Chimere S. Brown (Maywood),
Chem. Eng./Capital U.

Estefania Cano (Maywood),
Chem. Eng./U of Illinois, Urbana-
Champaign

Adan Castillo (Chicago), Materials
Science/U of Illinois, Urbana-
Champaign

Leticia Martinez (Cicero),
Chemistry/Roosevelt

Alexander Munoz (Chicago),
Chem. Eng./UIC

Anthony Rodriguez (Chicago),
Chemistry/Loyola

Tatiana J. Somerville (Chicago),
Chemistry/U of Illinois, Urbana-
Champaign

PATENT LITIGATION

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Desire to work with in-house counsel and patent prosecution attorneys regarding patent litigation. Small scale patent litigation can remain in-house or with your firm. Concentration in litigation since 1978; registered patent attorney since 2000; member of the Federal Trial Bar of the Northern District of Illinois. Extensive course work in and study of patent litigation and the latest case law. Chemistry background and active member of the Chicago Section of the American Chemical Society. Since working from a home-office, fees kept very reasonable. Resume, civil litigation samples, and references available upon request.

CONTINUING EDUCATION SEMINARS

The Continuing Education and Professional Relations Committees are continuing the series of short courses held at Loyola University 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 April program to be held on Saturday, April 27, 2002 will be on Polymer Nanocomposites given by Dr. Ray Hoff, Adjunct Professor of Chemistry, Roosevelt University.

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.

2002 WILLARD GIBBS MEDALIST ANNOUNCED

Herb Golinkin, Chair of the Chicago Section of the American Chemical Society and Chair of the Gibbs Jury, is pleased to announce that the 2002 recipient of the Willard Gibbs Medal is Professor Ralph Hirschmann, the Makineni Professor of Bioorganic Chemistry at the University of Pennsylvania. Professor Hirschmann is being honored for his significant contributions to organic, medicinal and bio-organic chemistry.

Professor Hirschmann received a B.A. degree in chemistry at Oberlin College in 1943. Following three years of service in the U.S. Army, serving in the Pacific theater during World War II, he earned a Ph.D. in organic chemistry at the University of Wisconsin in 1950. That year he joined Merck Research Laboratories. He rose to the position of Senior Vice President of Basic Research in 1978. Basic research flourished during his tenure as Head of Basic Research. Drugs such as Vasotec and Zocor became household names around the world. These drugs which are used to control high blood pressure and cholesterol biosynthesis, respectively, have saved and extended millions of lives.

At Merck, Professor Hirschmann successfully used his keen insight into the problems and challenges that comprise the interface between chemistry and biology to advance science and to stimulate the intellectual processes that are essential for scientific discovery. In collaboration with Robert Denkwalter he accomplished the first synthesis in solution of an enzyme, ribonuclease S. His efforts to design drugs from peptide hormones such as somatostatin made him the leading and most visible proponent of peptide chemistry as an approach to drug discovery, a concept which is now widely practiced. During the early years of his career, he recognized and demonstrated the use of steroidal glucuronides as vehicles for targeting anti-inflammatory agents on their site of action, thus, demonstrating the concept of a prodrug long before this term entered our scientific vocabulary. Early evidence for, and recognition of, the importance of stereoelectronic control on the course of chemical reactions can be found in his studies on rearrangement of the steroid C/D ring. The breadth and quality of these creative contributions to chemistry are truly remarkable.

After retiring from Merck in 1987, he started a second career at the University of Pennsylvania where he has, in col-

laboration with other researchers, continued his extensive studies of peptidomimetics. He was named the Rao Makineni chair in 1994.

Hirschmann holds 94 patents and 158 publications. He has been recognized through several awards, including three honorary degrees and recently the Cope Medal. He is a member of the National Academy of Sciences and the Academy of Arts and Sciences. In 2000, President Clinton presented the National Medal of Science to Professor Hirschmann in a ceremony at the White House.

Please join us for the presentation of the Willard Gibbs Medal and to honor Professor Hirschmann on May 24, 2002 at the Guest House of Argonne Laboratories, Argonne, IL.

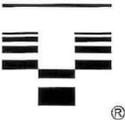
CHEMICAL SAFETY WEBSITE

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

50-YEARS MEMBERS

The Chicago Section will honor at this month's meeting those who have been members for 50 years in 2002. Congratulations!

D.Kendall Albert
A.Louis Allred
Elaine R. Anderson
Joseph T. Arrigo
Walter R. Benn
Milton Blander
Elmars Bremanis
Wayne L. Carrick
Donald Edward Dieball
Robert Diekman
Edward Dvorsky, Jr.
Daniel B. Eickemeyer
Chih M. Hwa
Roger D. Ginger
Fred Henry Gunzel, Jr.
Bruno Jaselskis
William E. Kennel
Arthur A. Krawetz
Vincent Paul Kuceski
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**CHERLYNLAVAUGHN
BRADLEY
DISTINGUISHED SERVICE
AWARDEE**

The 2002 Distinguished Service Award will be given to Cherlynlavaughn Bradley at the April 19 Chicago Section's Monthly Dinner Meeting. This award was established in 1974 at the suggestion of Louis L. Lerner, who was the editor of *The Chemical Bulletin*. The award recognizes members who have provided exceptional services to the Chicago Section over, above, and separate from any other achievements of the recipient, either in the profession or by the National ACS.

Cherlyn is a native of Chicago, growing up and attending school in the Broadview-Maywood area. She received her B.A. in Chemistry from Illinois Wesleyan University in 1973 with honors (*magna cum laude*). While at Illinois Wesleyan University she received the Outstanding Senior Award and the Marple-Schweitzer Award for outstanding achievement in Chemistry. Cherlyn then went on to receive both her M.S. and Ph.D. in inorganic chemistry from Northwestern University in 1975 and 1978. Her graduate research work was with Dr. A. Louis Allred and dealt with the synthesis, spectroscopic, electrochemical, and surface analysis of linear permethylpolysilanes.

Dr. Bradley joined the Analytical Division of the Amoco Corporation in Naperville in 1977 as a research chemist. She rose up the technical ladder to senior research chemist and was responsible for the development and implementation of technology and methods of determining volatile sulfur, nitrogen, and oxygen-containing compounds in petroleum and petrochemicals using gas chromatography with

element-selective detectors. During her 22 years at Amoco, she was recognized within the company and throughout the petrochemical industry for her work in selective GC detection and for trace determination of polymer contaminants. Her research projects in the areas of element-selective GC determinations led to numerous internal company publications and publications in *Analytical Chemistry* and *Energy & Fuels*. She contributed to the successful commercial development of an improved microwave plasma GC detector for selective element detection. She also served as the Quality Assurance Coordinator for the Analytical Services Division, the Analytical liaison and consultant to the refining technology groups, a team member of the refining technology groups' diversity action council, a company recruiter for Northwestern University and an editor of the intercompany technology newsletters.

Cherlyn joined the ACS in 1975 and became active in the Chicago Section in 1980. She has served on the Analytical Topical Group Program 82-83 (Chair); Nominating Committee 84, 86, 92, 01; Director 84-88, 89-92, 96-97, 99-01; Project SEED Committee 89-99, 89-94 (Chair), 96-present (Co-chair); Section Treasurer 92-93; Vice-Chair 93-94; Section Chair-Elect 94-95; Section Chair 95-96; House Committee 01, 92-93 and 99-00 (Co-chair); Long-Range Planning 00-present; and Chemical Bulletin Editor 01-present. She also participated in the Chicago Section's 15th Annual Chemistry Career Conference in 1986 and presented a talk at Chemistry Day in 1995.

She has also been very active at the National level, starting as an Alternate Councilor from 1991 until 1992. The Section members elected her a Councilor in 1992, a position which she continues to hold. Her activities on National Committees include the Council Committee on Project SEED (93-present); Council Committee on Chemical Safety (99-present); Division of Analytical Chemistry (79-92); Division of Petroleum Chemistry (79-82) and the Division of Chemistry and the Law (93-present).

Besides her activities with the ACS, her other professional activities include the Chicago Chromatography Discussion Group (81-90) and ASTM: member (85-present); E-19 Committee on Chromatography (85-88); D-2 Committee on Petroleum Products and Lubricants (85-present); Chairman of D-2 Study Group on GC-Oxygenates (90-98) and of the Ethylene Study Group of Subcommittee D (1993); Liaison and consultant work with California Air Resources Board and Environmental Protection Agency on methodologies meeting oxygenates

and low sulfur regulations for reformulated gasoline (94-97); Received a Certificate of Appreciation from the D-2 Committee for work dealing with the development of consensus method for analyzing trace carbonyl sulfide in propylene and for leadership in developing consensus methods for determining oxygenates in gasoline (1994).

Dr. Bradley's other achievements include the Robert M. Montgomery Outstanding Young Alumnus Award from Illinois Wesleyan University in 1985 and the Chicago Association of Technological Societies Award of Merit in 1996. She has mentored students participating in the Bayer/NFS Award for Community Innovation in 1999; provided an interview in Triton College's recruiting science career video for high school minority women in 1990 and presented a talk to the Explorers group of the Boy Scouts of America on analytical chemistry and science careers in 1994.

Since her retirement from BP, she has become an active participant with the BP Volunteers and is currently the Chair of the Naperville Chapter. Cherlyn's current volunteer activities include the Court Friends Program, a DuPage County Court program which monitors files of court-appointed guardians of disabled adults; special events at Morton Arboretum in Lisle and helping on the BP retirees website taskforce. She is an active member of her church, has been a Bible study leader and church library chair, and is an Eucharistic minister. With all of these activities, she is also a Board member of the NorthStar Credit Union (1984 to present) and is the Board Secretary (1994 to present).

The Section is honored to have such an active member as Cherlynlavaughn Bradley as its Distinguished Service Awardee for 2002.

FRAN KAREN KRAVITZ

**CHICAGO SECTION
RESERVATION HOTLINE**

The Section now has a new telephone line, to serve as the Reservation Hotline. Callers will receive a detailed greeting informing them of the upcoming meeting and will be asked to provide their reservation information. Reservations will be confirmed by return phone call. **The Reservation Hotline number is 847-588-3322.** Of course, anyone may still dial the regular ACS number, and reservations will continue to be accepted by email and online.

NOTE: The hotline is for reservations only. All other business should still be addressed to the regular number.

EMERGENCY ACTION PLANS

This time of turmoil and uncertainty may signal a need for a review and reevaluation of plans to cover possible emergencies in the workplace and in the home.

Workplace and home emergencies may never be completely eliminated. Because of this, vigorous preparation holds the key to significantly reducing any damaging effects. The principles of this review and reevaluation apply to your place of business, your home, a place you are visiting, your place of worship, or any space you may be occupying when an emergency arises.

Emergency action plans describe the routes and procedures to follow when an emergency occurs. The procedures must include a method of accounting for all occupants of the space to be vacated. Thus, a safe place for evacuees to assemble and be accounted for must be located somewhere away from any potential emergency-activated site.

Emergencies

Emergencies can include fires, hazardous materials incidents, hurricanes, tornadoes, winter storms, and earthquakes as well as biological, chemical, or even nuclear terrorism threats.

Have you, your fellow workers, or members of your household been instructed on the proper way to report emergencies and to summon help? Is the location and phone number readily available to anyone occupying your space when you are absent? This information is critical for the dispatcher at the emergency-responding agency. Call for help as soon as you've assessed the emergency and you feel that you need help.

In many localities, you may dial 911 for most emergencies. When you call, you need to think clearly and know what to say. The information you pass on may make the difference between life and death. Different responders need to know certain specific information and you must be ready to give it.

Emergency Action

Emergency action plans must include a preferred means of alerting coworkers or family members to the situation creating the emergency. An alarm must be sounded! The alarm may be voice communication or sound signals such as bells, whistles, sirens or horns. Whatever enunciator is used, it must be audible throughout the occupied premises to everyone. For the hearing impaired, a visible flashing light can be used. Each occupant should be made aware of the alarm system and its significance.

Emergency Evacuation Drills

An emergency exit drill, in this time of

uncertainty and turmoil, is not only an urgency but should also be mandatory! The emergency exit drill should spell out evacuation procedures and routes of travel. These drills should be conducted as soon as possible to acquaint everyone on the safest and surest way to exit in any type of emergency.

As mentioned above, the emergency could be fires, hazardous materials incidents, hurricanes, tornadoes, winter storms and earthquakes as well as biological, chemical, or even nuclear terrorism threats. Again, to repeat for emphasis, the occupancy can be your place of business, your home, or any place that you may be visiting or occupying during a possible emergency. Included in these drills, is an emphasis on the location of an area in which to assemble for a head count.

Emergency exit drills, like fire drills, (which should be familiar to most of us), or severe weather drills, or any other type of emergency drills are designed to make sure you, your coworkers, your family and any visitors become knowledgeable as to the safest and quickest way to vacate any life-threatening occupancy. Thus, all building occupants must partake in emergency exit drills since these drills are meant to acquaint them with the procedures that are necessary to safely evacuate.

Make certain, that all occupants of any space that they are occupying are knowledgeable and trained in all aspects of emergency evacuation. All potential occupants of any space that may be put to use should practice evacuation training.

To make certain that requirements for a quick, certain and safe evacuation of any occupancy are in place, an exit drill should be scheduled and practiced as soon as possible. To this end, has an evacuation drill been recently set up and practiced in your home, workplace or in any other space, which might affect your safety or someone else's safety in an emergency?

As an example, have you scheduled and practiced an evacuation drill to assure the safety of your family and any visitors in your home to cover any possible emergency. An evacuation drill must be scheduled and practiced to acquaint everybody on the safest and surest way to exit.

It can't be repeated enough that the drill should make sure that everyone knows the location of the designated assembling area where a head count can be made of all occupants present at the time of the emergency.

In certain circumstances, special procedures for helping physically impaired individuals must be addressed. Bear in mind that in a dark, smoky, life-threatening emergency, those who are exiting could have difficulty in navigating on

stairs that you have used over and over. This then reiterates the need for quick, certain and safe evacuation of any occupancy to become a part of everyone's experience in case there is an actual emergency.

However, a practice drill is not always performed even though it is a requirement. Safety professionals state that 95% of the time emergency response is not current! This then is sufficient reason to make evacuation drills mandatory and to schedule them on a regular basis.

Now that preliminary information has been presented, certain requirements for safe evacuation of any type of emergency need to be put in place.

Emergency Evacuation Requirements

It is hoped that in this troubled time of turmoil and uncertainty, your employer and/or building management conducts a drill that is designed to respond to any type of emergency. This drill is meant to familiarize you with the steps necessary to safely evacuate. If, however, these two most important influences on your well being, in a time of crisis, fail to schedule and activate these drills, it becomes essential for you to formulate your own plans. In other words, you have to develop a strategy that covers "what shall I do in case of an emergency that requires leaving the building?" To do this, you should plan an evacuation drill that will allow you to exit safely.

Before you do that, you should find out if employees are instructed about the location and use of safety equipment. Also, are the proper types of fire extinguishers available? Fire extinguishers are only first aid equipment that have about 15-20 seconds of fire fighting capability. So, if an emergency occurs when you are present, be sure to summon help first by using the building's emergency notification system.

When you develop your plan, bear in mind that each workplace must have sufficient exits for leaving a building in case of fire or other emergency. Alternate escape means should also be available. If more than one exit is provided, make sure that they are sufficiently apart from one another.

Exits cannot be locked or blocked which could prevent escape if there is a building emergency while it is occupied. Nor should they go through rooms that could be locked. All exits have to be free of all impediments and of any obstructions. Thus, they cannot be concealed by hangings, draperies, or mirrors.

Exits are to be marked by readily visible signs and non-exits must also be clearly identified. Are they? The direction of egress of an exit must be clearly marked and it should discharge to a

(continued on page 9)

(continued from page 8)

street or an open space.

Further, exits should have a proper fire resistance and be protected by an approved self-closing, fire resistant door. Are all stairway fire doors kept closed? Has emergency lighting been provided in critical areas and is it in working order? Is the emergency evacuation drill schedule being followed and documented?

STEVE SICHAK, CO-CHAIR, ENVIRONMENTAL & LABORATORY SAFETY COMMITTEE

DUTIES OF SECTION COUNCILORS

This is a reprint of an article appearing in the April 1997 issue of the Chemical Bulletin. The article has been updated 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 ACS councilors and alternate councilors are and what they do for you and the Chicago Section? The two major structural components of the Society besides your national officers and Board of Directors are local sections and divisions. ACS local sections and divisions not only elect their own officers, but also elect representatives to the ACS Council, the deliberative body of the Society. This is your opportunity to have a voice in Society's governance.

The Council consists of the President, the President-Elect, the Directors, the Past Presidents, the Executive Director, the Secretary, and 482 voting Councilors (as of March 2001), 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, Cherlynlavaughn Bradley (Project SEED; Chemical Safety), Charles Cannon (Local Section Activities), David Crumine (Publications), Nathaniel Gilham (Constitution and Bylaws), Russell Johnson (Public Relations), Fran Karen Kravitz (Economic and Professional Affairs), Thomas Kucera (Policy), Claude Lucchesi (Chemistry and Public Affairs), Barbara Moriarty (Economic and Professional Affairs, Chair of Professional Standards and Ethics subcommittee), Seymour Patinkin (Local Section Activities), Marsha A. Phillips (Nomenclature, Terminology and Symbols), and Stephen Sichak (Chemical Safety; Constitution and Bylaws).

Alternate Councilors for the Chicago Section are: Allison Aldridge, Sanford Angelos, Larry Berman, Inara Brubaker, Connie Buenvenida, Marilyn Kouba, Angela Kowalski, Margaret Stowell Levenberg, Sharon J. Northup, Gayle O'Neill (Environmental Improvement), Darryl Prater (Minority Affairs, Committee on Education's task force), Adele Rozek, Guy Rosenthal, and Fred Turner.

James P. Shoffner's responsibilities at the National level include Member of the Board of Directors as a Director-at-large; Member of Board Committees on Grants and Awards and Professional and Member Relations; Chair, Division of Professional Relations; Minority Affairs Committee, and Science Committee.

Roy Bible (with LeRoy Johnson) teaches a 3-day NMR course before each National meeting.

Chicago Section Councilors and Alternate Councilors are also members of and hold office in a variety of ACS Divisions.

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

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



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ANALYSIS FOR THE CHEMICAL ELEMENTS

SLOAN CAREER CORNER-STONE SERIES

The "Sloan Career Cornerstone Series" is now available to high schools, universities, career centers, associations, and corporations for \$50 instead of the list price of \$350. The series includes sets of nine career-focused CD-ROMs or nine videotapes that were developed with support from the Alfred P. Sloan Foundation in a partnership with the following: American Chemical Society, American Geological Institute, American Institute of Chemical Engineers, American Institute of Physics, American Mathematical Society, American Society of Civil Engineers, American Society of Mechanical Engineers, Institute of Electrical and Electronic Engineers, Mathematical Association of America, Society for Industrial and Applied Mathematics, and The Minerals, Metals, and Materials Society.

The nine topics include career paths available to chemists, chemical engineers, civil engineers, electrical engineers and computer scientists, geoscientists, materials science and engineering professionals, mathematicians, mechanical engineers, and physicists. Videotapes are each between 25 and 64 minutes in length, and CD-ROMs include extensive careers, salary, and careers profile databases plus Internet links. For more information, or to purchase at the discount level, visit www.careercornerstone.org.

BETTER DETECTION OF BIOTERROR AGENTS VIA NANOTECHNOLOGY

Northwestern University scientists have created a nanoparticle with a new shape that could be a useful tool in the race to detect biological threats.

The nanoprism, which resembles a tiny Dorito, exhibits unusual optical properties that could be used to improve biodetectors, enabling them to test for a far greater number of biological warfare agents at one time. Once the technology is optimized, nanoprisms could be used to quickly detect biological weapons such as anthrax, smallpox and tuberculosis.

Nanoprisms may also be useful in detecting genetic markers for such diseases as cancer and HIV. The discovery was made by a team of scientists headed by Chad Mirkin, director of Northwestern's Institute for Nanotechnology, and is reported in the Nov. 30, 2001 issue of *Science*. To learn more about the institute, go to <http://www.nanotechnology.northwestern.edu/>.

SCHOLARSHIPS

The Chicago Chromatography Discussion Group (CCDG) is offering two annual scholarships for students of the Chicago area. One is the membership scholarship, and the other is the research scholarship. Winners will be announced at the CCDG Annual All-Day Meeting in May of 2002, but awardee attendance is optional.

Applications and requirements for both scholarships are available on the CCDG web site (www.ccdg.org). Applications will be accepted until Tuesday, April 30, 2002. For more information contact the CCDG Awards Chairperson, Jim Michels, at (630)-305-2318 or jmichels@ondeo-nalco.com.

Membership Scholarship

This scholarship is intended for children of CCDG members who are undergraduates majoring in the sciences. The field of science doesn't need to be in separations. The award consists of \$1000 to be used at the awardee's discretion.

Research Scholarship

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 awardee is encouraged (but not mandated) to make a brief overview of their work at the May CCDG meeting.

223RD ACS NATIONAL MEETING

APRIL 7-11, 2002

ORLANDO, FLORIDA

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 2002	3/29/02
June 2002	4/26/02

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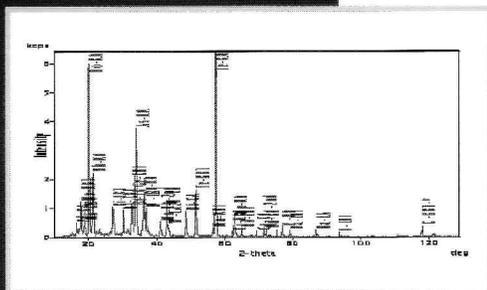
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GC COURSE

The Chicago Chromatography Discussion Group (CCDG) will conduct its 39th annual Introductory Course in Gas Chromatography April 8 — 11, 2002, at Roosevelt University, 1651 McConnor Parkway, Schaumburg.

The 3 1/2 day course gives students sufficient theoretical and practical background to perform independent work in gas chromatography. The course includes both lecture and laboratory sessions.

Half the course will be devoted to lectures encompassing all major areas of gas chromatography likely to be encountered by workers practicing in the field. The lectures are presented by outstanding Chicago area industrial and academic scientists who are active in the field.

The course will emphasize practical laboratory training in capillary GC. Gas chromatographs will be available for the students. Each student will spend about five hours in intensive laboratory work in the areas of quantitative and qualitative analysis.

Fee is \$595, which includes lunch, text and lab manual. Registration is limited to 45. For an application, contact CCDG at 847-647-0157. Registration deadline is March 29. A limited number of discounted registration fees are available for full-time students and unemployed individuals.

THE CHEMICAL BULLETIN ADVERTISING RATE SCHEDULE

The official newsletter of the Chicago Section American Chemical Society, The Chemical Bulletin, publishes news and information of interest to the Section's 5,600 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

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Full Page	7.5" wide x 10" depth	\$600
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For more information, contact evalopez@teianalytical.com or call 847-647-8405. Fax insertion orders to 847-647-8364.

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CALENDAR

April 7-11, 2002: The 223rd National ACS Spring Meeting will be held in Orlando, FL. For further information, call the National ACS office at (202) 872-6059 or send e-mail to natlmtgs@acs.org.

April 8-11, 2002: The Chicago Chromatography Discussion Group (CCDG) will conduct its 39th annual Introductory Course in Gas Chromatography at Roosevelt University, 1651 McConnor Parkway, Schaumburg. For an application, contact CCDG at (847) 647-0157. **Registration deadline is March 29. See article in this issue.**

April 17, 2002: The Chicago Chemists' Club will meet at the Bohemian Crystal Restaurant in Westmont. The speaker will be Prof. Thomas Lindblade of College of DuPage with his video of the safari he led through Zanzibar, Malawi, Tanzania, and Kenya. For additional information, call Judy Reuter at (847) 679-2444.

April 27, 2002: Continuing Education short course on Polymer Nanocomposites, given by Dr. Ray Hoff of Roosevelt University, 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.**

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 or Ann Levinson at annlev@ripco.com.

May 24, 2002: The Chicago Section American Chemical Society will celebrate the presentation of the Willard Gibbs Award to Professor Ralph Hirschmann at the Argonne Guest House, Argonne National Laboratory.

June 2-4, 2002: The Great Lakes Regional Meeting will be held in Minneapolis, MN. For further information, contact the ACS Office of Regional Meetings, (202) 452-2138 or send email to gladfelt@chem.umn.edu.

June 21, 2002: The Chicago Section American Chemical Society will present the Annual Education Night. Stay tuned for further information as the date approaches.

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.

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.

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.

**PLEASE
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(Ballots were mailed in March)

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