

theCHEMICALbulletin

JANUARY • 2001

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

January Dinner Meeting

FRIDAY, JANUARY 19, 2001

Steven's Steak House
476 N. York Road
Elmhurst, IL
630-834-6611

DIRECTIONS TO THE MEETING

From Downtown Chicago: Take Eisenhower Expressway (290) west to York Road. Turn right on York Road (south) to Steven's, which is on the right side of street.

From the North: Take 294 South to 290 West Rockford. Exit York Road and turn right (south). Proceed to Steven's. **FREE PARKING**

TOPICAL GROUP 5:30 - 6:30 PM

Ena Castro, Manager of the American Chemical Society (ACS) Member Insurance Program and Secretary to the Board of Insurance Trustees, will present information on ACS Member Insurance.

Ms. Ena Castro is Manager of the American Chemical Society (ACS) Member Insurance Program and Secretary to the Board of Insurance Trustees, a committee of nine ACS members that oversee the Program.

Before assuming the staff managerial responsibility, Ms. Castro worked with the insurance program in a number of positions since joining the ACS in 1982. Ms. Castro is a licensed insurance agent and is responsible for the overall operation of the Program, coordinating the activities of four Plan Administrators and seven insurance company representatives. Another one of Ms. Castro's key functions is being an advocate for ACS members in dealing with the different companies that underwrite and administer the Member Insurance Plans.

Social Hour 6:00- 7:00 P.M.

Cash Bar Available with Hor d'oeuvres

Dinner 7:00 P.M.

Dinner reservations are required and should be received in the Section Office via phone (847-647-8405), fax (847-647-8364), or website (<http://membership.acs.org/C/Chicago>). by noon on Tuesday, January 16, 2001. **PLEASE HONOR YOUR RESERVATIONS.** The Section must pay for all dinner orders. No-shows will be billed.

Menu: Clam Chowder, tossed salad with choice of three dressings, Beef Filet Brochette, wild rice, fresh vegetables, rolls and butter, butter pecan ice cream, and beverage. Also available are a fish entr  e (Tilapia Piccata) or vegetarian entr  e (Portabella Mushroom) upon request at the time of reservation.

The cost is \$27.00 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$29.00.

GENERAL MEETING 8:00 P.M.

Dr. Mark S. Konings of Minnesota Mining and Manufacturing (3M), will present a talk entitled, "The History and Chemistry of Beer Brewing."

Abstract: The history of beer brewing will be discussed, from its first recorded history with the ancient Sumerians, to its refinement to beer as we know it by the Germans in the 15-16th centuries, to its importance and role in the development of modern US society, and to the latest trends in microbreweries, brew pubs, and home brewing. We will discuss briefly the chemistry of the fermentation process including the role of the catalyst (yeast), the types of sugars present in malt, and the chemical constituents of hops. We will learn about the different types and styles of beer, how beer is made, who makes it, who drinks it, and which countries drink the most beer. Several popular misconceptions will be dispelled.

Speaker Information: Mark Konings was born and raised in Milwaukee, WI. He graduated from Calvin College in 1983 with a B.S. with honors in chemistry. He received a Ph.D. in organic chemistry in 1987 from the University of Wisconsin-Madison. Subsequently, he spent three years in Berkeley, CA, first performing postdoctoral research at the University of California and then at the Lawrence Berkeley Laboratories. He has been employed in 3M's Dental Products Division since 1990 in a variety of product development and management functions. Currently he leads the laboratory's efforts to develop new dental cement technologies and products. He went back to school in 1998 and received an MBA from the University of Minnesota in 2000. He began making home-brewed beer in 1988 and in 1992 he won the 1st Annual Minnesota Homebrew competition. In his spare time he enjoys running, reading, camping, investing, and playing with his new daughter.

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EDITORIAL: CHEMICALS CAUSE ATTENTION DEFICIT HYPERACTIVITY DISORDER

Earlier this year, while driving to work, I heard a news report that I believe said that chemicals in air pollution caused an increase in Attention Deficit Hyperactivity Disorder (ADHD) over the past 25 years. I was surprised by this story for two reasons. First, I thought that laws, such as the Clean Air Act and the Clean Water Act, had actually resulted in less pollution now compared to 25 years ago. Secondly, I was under the perception that ADHD was over diagnosed. As someone, who doesn't like to believe that I, as a chemist, am responsible for the increasing number of cases of ADHD, I naturally did a little more research. A report was found from CNN.com, which gave the news report, but also listed the original source of the findings. The findings had been published in September 2000, in a report entitled, "Polluting Our Future: Chemical Pollution in the U.S. that Affects Child Development and Learning," published jointly by the National Environmental Trust, Physicians for Social Responsibility and the Learning Disabilities Association of America. The report is available at www.enviromet.policy/health/neighborhood/cehfutur.

The findings given in the report estimate that releases into the environment of developmental and neurological toxins amount to about 24 billion pounds a year — enough toxic chemicals to fill railroad tanker cars stretching from New York to Albuquerque, New Mexico. This figure was obtained in the following manner. The amount of toxic chemicals released by industry in the nation's air and water, as reported to the Environmental Protection Agency in 1998 (the most recent year for which information is available), was 1.2 billion pounds of chemicals. However, emissions reported to the federal government account for only an estimated 5% of all chemical releases in the country. Thus, 1.2 billion pounds X 20 gives 24 billion pounds. More than half (53%) of all toxic chemical emissions reported to the federal Toxics Release Inventory are known or suspected developmental or neurological toxins. The largest emitters of developmental and neurological toxins nationwide are chemical manufacturers; makers of paper, metal, and plastics; and electric power utilities. As an aside, I had thought that the amount of chemical emissions into the environment had actually decreased in the last 25 years. Did I have the wrong impression? Also, why are only 5% of the

emissions reported to the EPA? A little more research is obviously in order.

The study goes on to say that based on their estimates, more than 360,000 U.S. children (more than one in every 200 children) suffer from developmental or neurological disabilities caused by a range of toxic exposures including developmental and neurological toxins. In terms of ADHD, the study actually stated that there was "a probable increase in attention deficit hyperactivity disorder as measured by the explosive prescription rate of the drug Ritalin — even accounting for the possibility of overprescription. The number of children taking Ritalin has roughly doubled every 4 to 7 years since 1971.

So the news report I heard oversimplified what the original report truly said. Nonetheless, a few points can be made from this experience. First, we, as chemists, need to publicize the good that we do. Chemicals and chemists have a bad reputation. We need to point out that chemicals also save lives. At the local level outreach programs, such as Chemistry Day and Kids and Chemistry, help us to educate the public and are increasingly important.

Second, as chemists, we need to help in the decision-making process. At the national level, ACS members can become part of the Legislative Action Network. The Legislative Action Network (LAN) is a program started by the ACS to update members on federal legislation and facilitates contact with members of Congress. Network members receive timely Legislative Action Alerts via email, urging them to write their legislators on issues concerning ACS members. It is extremely easy to contact your members of Congress on science and public policy issues that are of interest to you. If you are interested in signing up to be a part of the ACS Legislative Action Network, you can sign up online at <http://www.congress.nw.dc.us/chemical>. On the state level, you should also contact your own local and state representatives. This year, we will have the opportunity to join other local sections in Illinois for the Illinois State Capital Day. This will be an outstanding opportunity to begin dialogues with our state representatives in Springfield. See the section's website and future issues of The Chemical Bulletin for more information.

The bottom line is that each and every one of us needs to be active in promoting the positive impact chemistry can have on our society. The ACS provides many opportunities for us to help. As you will see in articles in this issue, the

Chicago local section has a variety of outreach programs. If you would like to get involved, contact the section office at (847) 647-8405 or any one of the officers. We need your help and ideas.

Barb Moriarty


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ANALYSIS FOR THE CHEMICAL ELEMENTS

"CHEM SHORTS" For Kids

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

Yeast to Bread — Part II of III

Kids, did you make your own yeast according to last month's column? It is really fun chemistry to do hands-on and it has a biological slant (in a word, "bio-chemistry"), so we hope that you did. If you had to refrigerate your starter yeast in order to wait for this column to appear, remove one cup of it and feed it for a few days, twice a day, as you did on days 11-14 before. Now you are ready to start a "Sweet Friendship Bread". In a glass bowl mix 1 cup each starter, vegetable oil, and sugar, 4 eggs, and 2 tsp vanilla. In another large glass bowl mix 2 tsp baking soda, 1 tsp

baking powder, 2 cups flour, 2 tsp cinnamon, and 1 cup each chopped pecans, chopped apples, and raisins. Blend every-thing, mix well, and pour into three 9x5" loaf pans. Have an adult partner bake it for 50-60 min in a pre-heated 350oF oven.


Yeast cells digest food to grow. Their favorite food is sugar, either sucrose (cane sugar), fructose and glucose (from honey, molasses, and fruit) and maltose (from starch in flour). Glucose is $C_6H_{12}O_6$. This fermentation process makes carbon dioxide and ethyl alcohol. Flour Facts: When mixed with liquid and kneaded, flour develops enough gluten to support the carbon dioxide made by the yeast. Gluten is the elastic molecule formed when the protein of flour meets a liquid. Kneading makes the gluten stronger so it can hold in the gases formed by the yeast. This recipe didn't call for kneading, but many do. After baking the dough you'll see the remains of the CO_2 gas bubbles as air pockets in the bread. Fat Fact: Fats like butter, margarine, and oil are used in breads to make the gluten strands slippery so the yeast gases can expand easier. Liquid Facts: Breads made with water will have a more open texture, a more wheaty flavor, and a crispier

January 2001 Vol. 88, No. 1 Published by the Chicago Section of The American Chemical Society, Editors; Sanford Angelos and Barbara Moriarty. Address: 7173 North Austin, Niles, Illinois 60714. 847/647-8405. Subscription rates: \$15 per year, \$15 outside North America. Frequency: monthly-October thru June

crust. Milk creates breads that are richer with softer texture; crusts are softer and will brown faster due to the sugar and butterfat in milk. Sugar Facts: Sugar provides food for the yeast to grow and adds flavor. Salt Fact: Salt controls the speed at which the dough rises. In next month's column we'll do more experiments with yeast, so stay tuned!

Reference: Nancy Lang, Scientific American Explorations magazine, Fall 2000, p. 14 and www.redstaryeast.net/science.html. See www.bread-world.com/justkids for a peanut butter bread recipe with Fleischmann's yeast.

Written by: K. A. Carrado, Elementary Education Committee.

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YEAR 2000 IN REVIEW

The mission of the Chicago Section of the ACS is to encourage the advancement of chemical sciences and their practitioners. The resources for achieving this mission include 5,836 ACS members in the Chicago Section, 6 elected officers, 17 standing committees, 8 board appointed committees, 14 ad hoc committees, and the contributions of the many volunteers, employers and academic institutions in the Chicago Section.

Member meetings: The Chicago Section held 10 member meetings in 2000. The Chicago Section featured polymer-related topics at three of the ten meetings in 2000 to support the National ACS program theme. Even a "Chem Shorts" column on science and chemistry for kids featured a polymer topic. Three of the speakers were from the Chicago Metro area. Topics included polymer-assisted synthesis of chemical libraries; mesoporous supports for desulfurization catalysts; the phenomena of memory, learning, and forgetting; nanocomposite materials; and the wonders of creation of the universe and life. Member meetings for the Basolo and Stieglitz lectures are described below. The annual holiday party was held in December.

Topical Group meetings: The Topical Group co-Chairs, Margaret Levenberg and Dave Crumrine, continued to present a number of interesting speakers for Topical Group sessions, any of which would have been suitable for a dinner meeting presentation. Topics covered included variation in flavor of chocolate, natural product synthesis, chemical weapons demilitarization to create more benign commercial products, the fermentation and flavor chemistry of beer, and the history and future of Chem Shorts, a monthly column in The Chemical Bulletin by Dr. Kathleen A. Carrado. Dr. Catherine Woytowicz, a Science Policy Fellow in the Office of Legislative and Governmental Affairs of the ACS and a member of the Chicago Section, also presented a Topical Group lecture on "A year on the hill: the ACS science fellowship experience."

Awards: The Section cooperated with Northwestern University on the presentation of the Basolo Medalist Award. Henceforth, the presentation will be made at a joint meeting in October at or near the Northwestern Campus. The 2000 awardee, Dr. James Collman, Stanford University, was selected by a joint committee of the Chicago Section and Northwestern University. Dr. Collman spoke on his work on the chemical discovery of the catalytic mechanisms

of cytochrome C oxidase. The Chicago Section and the University of Chicago jointly selected the 2000 Stieglitz Lecturer, Dr. Joanna Fowler, Brookhaven National Laboratory. Dr. Fowler spoke on positron emission tomography and her role in the synthesis of short-lived isotopes used in this diagnostic medical procedure. The Basolo Medalist Lecture was initiated in 1991 and the Stieglitz Lecture was initiated in 1940.

The selection of the Gibbs medalist was one of the most prolonged in recent memories. However, their choice was excellent. Prof. Nick Turro gave one of the most enjoyable and best-received presentations in years. We were able to learn much of Nick Turro the person as well as Nick Turro the scientist.

At the April meeting, the Distinguished Service Award was presented to Ellis K. Fields, Past Chair of the Section and Past President of ACS. In addition, 50-year ACS Membership Awards were presented to 37 Chicago Section members.

Five scholarship awards totaling \$13,250 were presented to outstanding high school seniors at the June meeting. Contributions for the scholarship awards included \$5,000 from Rohm & Haas, \$2,500 from Akzo Nobel and \$1,250 from Nalco Chemical. The number of participants in the exam was 102 students. Each student received a certificate for participation and outstanding performance in chemistry.

Fred Basolo, past-Chair of the Chicago Section and past-President of the ACS, was named recipient of the ACS Priestly Medal for 2001.

Employment services: The Job Club continued to meet before most Dinner Meetings. The program continues to be beneficial to both job seekers and job providers.

Communications: The Chemical Bulletin under the editorship of Barb Moriarty and the Section's website Web Master, Milt Levenberg, continued to provide information to and communication with the membership. Online registration for the dinner meetings has been an emerging success. The Chemical Bulletin is distributed to all ACS members in the Chicago Section.

Public Outreach: The Chicago Section sponsored National Chemistry Day at Loyola University. Activities included exhibits, demonstrations, and lectures. Drs. Tom Kucera and David Crumrine, co-chairs and numerous volunteers spent many hours in planning and holding this event. Lee Marek, chemistry teacher at Naperville North High School and internationally renowned presenter of popular chemistry demonstrations,

continues to arrange for science demonstrations for area Junior High students and on the David Letterman Show on CBS.

The Public Affairs Committee, co-Chairs Barb Moriarty and Jim Shoffner, continued to be one of the most active committees in the Section. The committee distributed copies of the Illinois Blue Book 2000 to attendees at the Public Affairs dinner meeting that was held on March 17. National ACS honored Dr. Jeffery Gaffney, Argonne National Laboratory, for responding to all of National ACS's Legislative Action Network (LAN) e-mail alerts. LAN provides e-mail alerts on emerging federal legislative and policy issues of interest to chemists. Dr. Jim Shoffner responded to an Ann Lander's column ("Time to come clean, without chemicals," Chicago Tribune, May 10, 2000). The Chicago Section plans to participate in Illinois State Capitol Day, March 7, 2001, to promote issues of importance to chemists at the state level.

In other outreach, the Section was again represented at DuPage Engineers Week at IIT West. The Section was also represented at an Earth Day celebration at the Nature Museum where Daryl Prater distributed ACS posters of the periodic table.

The Ipatieff Book Fund of the Chicago Section contributed \$1,705 to the John Crerar Library, University of Chicago. Vladimir N. Ipatieff (1890-1952), who endowed the fund, was a former employee of Universal Oil Products Co. and did basic work on hydrocarbon catalysis that was applied to the development of high octane gasolines. The contributions were used to purchase a copy of Comprehensive Natural Products Chemistry (D.H.R. Barton, editor) and the Encyclopedia of Analytical Chemistry: applications, theory and instrumentation (R.A. Meyers, editor) which will be published in 2001. All books receive bookplates acknowledging their purchase from the Ipatieff Book Fund.

Education: The high school Chemistry Olympiad was held in March. Eleven local winners advanced to the national level competition. Unfortunately, no local students qualified to attend the National Chemistry Olympiad Summer Camp. Drs. Nat Gilham and Elizabeth Cozzi, as representative of the Chicago School Board Liason Committee, inspected science programs in grades K-12 for outstanding leadership awards sponsored by the Chicago Principals and Administrators Association and the

(continued on page 5)

(continued from page 4)

Chicago Board of Education. Steve Sichak, chair of the Chemical Health and Safety Committee, did a safety review of the chemistry lab in Glenbard West High School.

The Chicago Section participated in a College Career Day at Chicago Academy of Science's Careers Fair, April 9, Northeastern University in February and Chicago State in October.

Regional and National ACS meetings: Once again, the Section sent a complete contingent of 13 Councilors and Alternates to the ACS National Meetings in San Francisco and Washington DC. The preliminary local National Affairs Meeting and the Region V Caucus Meeting (Jim Shoffner, Chair) were also well attended. Jim Shoffner was elected ACS Director-at-Large in the fall National ACS elections. Marilyn Kouba represented the Chicago Section on the planning committee for the Great Lakes Regional ACS meeting.

Governance: The Chicago ACS Board approved a motion to change the fiscal year of the local section to coincide with the calendar year. This change will be implemented as soon as the Bylaws are amended and approved by the National ACS and the Chicago Section membership. The Bylaw changes are expected to be approved in 2001 so that the plan can be implemented in the 2002 Chicago Section election.

Bob Buntrock and Sharon J. Northup
Chairs for 2000

PARTICIPATE IN THE AMERICAN CHEMICAL SOCIETY ILLINOIS STATE CAPITOL DAY

The local sections in Illinois will be participating in the American Chemical Society Illinois State Capitol Day, in Springfield, Illinois on Wednesday, March 7, 2001. State Capitol Day is an opportunity for ACS members from Illinois to meet with state policymakers. This is a chance to build relationships and introduce the resources and expertise of ACS members to Illinois' officials. The event will focus on state government affairs and will provide participants with an opportunity to learn more about the ACS Office of Legislative and Government Affairs.

If you are interested please contact the section office at (847) 647-8405 or Barb Moriarty via email at bmoriarty@nalco.com.

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Regardless of the method of submission, please include the following information on your abstract:

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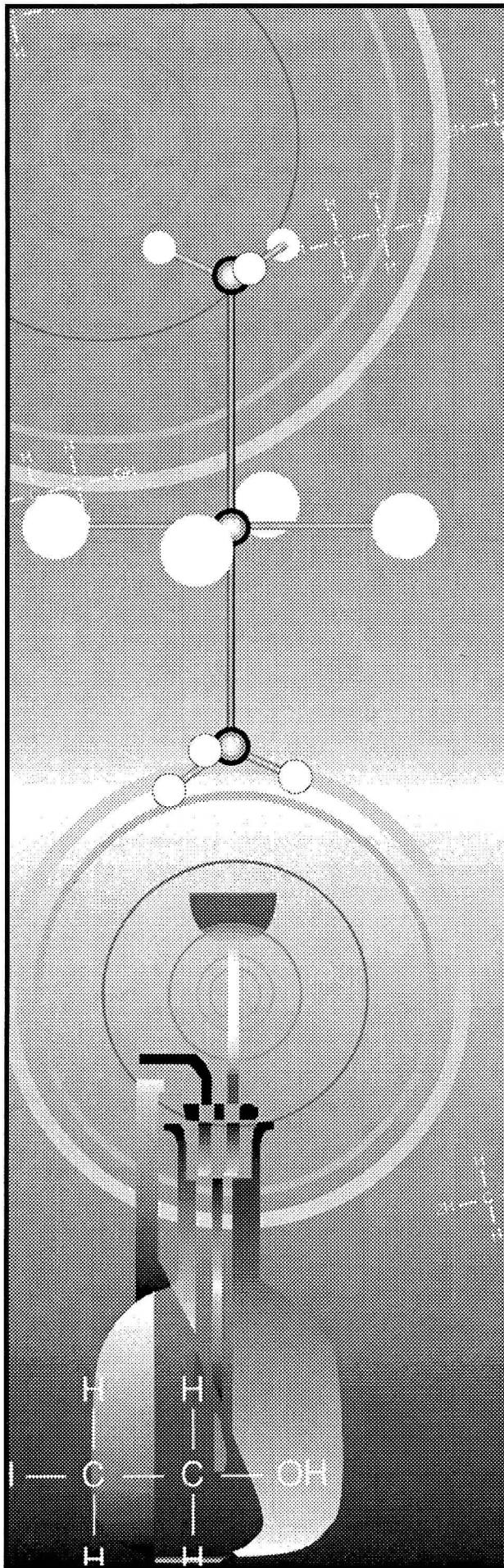
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MINORITY AFFAIRS COMMITTEE ACTIVITIES

The Minority Affairs Committee, under co-chairs Darryl Prater and Woody Johnson, had an active year in 2000. The committee did a career day at Evanston High School where a technology/health careers club met and asked questions. Darryl Prater represented a chemist; there was also a project manager from Hewitt Associates and a guy from an auto repair shop. They fielded questions for about an hour and a half. The committee will participate in this activity again in 2001- probably in February or March.

In conjunction with Allison Aldridge of YCC, the committee was asked to present options in careers at a Career Day at the Peggy Notebaert Nature Museum on April 9, 2000. Our table was to show the exciting opportunities available in the field of science, and the dynamic people who pursue these fields everyday. The biggest draw to the table was a periodic table that was purchased at the San Francisco National ACS meeting. This new periodic table shows practical uses for the majority of the elements. Most of the people visiting the table were amazed and many commented that they wanted the periodic table and asked where they could obtain one. Many remember the periodic table but were not aware that it had so many elements; they mentioned that when they learned it in school it was nowhere near 100 elements. So it was a great topic of discussion at our table and it garnered more discussion than our purpose, which was careers in the chemical field.

YCC, Minority Affairs, College Education and Public Affairs committees also sponsored 2 College Career Days on February 12, 2000 at Northeastern Illinois University and on October 28, 2000 at Chicago State University. Charles Cannon stood in for our speaker who couldn't make it in February due to the weather. Dorothy Rodmann spoke at the October Career Fair. At both events we had mock interviewing and resume critiquing by ACS Career Consultants.

We also had the annual ACS Scholars Brunch in June 2000. We like to bring the Scholars together with their mentors and have dialogues about their future plans and offer any assistance on any issues they may be having.

Darryl Prater
Co-Chair, Minority Affairs

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CALENDAR

January 10, 2001: The Chicago Chemists Club will meet at Monastero's, 3935 W. Devon Ave, Chicago, IL. For additional information call Walter Kramer at (847) 967-8457.

February 23, 2001: The Chicago Section American Chemical Society will meet at Ann Sather's Restaurant in Chicago. The speaker will be Shahna Richman of the FBI, who will give a lecture entitled, "Biological Weapons and Causes of Death." For additional information call the Section Office at (847) 647-8405.

March 7, 2001: The Chicago Section American Chemical Society and other Illinois ACS local sections will participate in Illinois State Capital Day in Springfield, IL. For additional information, contact Barb Moriarty at (630) 305-2224.

March 23, 2001: The Chicago Section American Chemical Society and the Public Affairs Committee will celebrate the presentation of the Public Affairs Award. For additional information call the Section Office at (847) 647-8405.

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

April 20, 2001: The Chicago Section American Chemical Society will celebrate the presentation of the Distinguished Service Award. The speaker will be Allan Hedges of Cerestar, Inc. who will present a lecture entitled "Industrial Applications of Cyclodextrins." For additional information call the Section Office at (847) 647-8405.

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

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

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

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

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