

theCHEMICALbulletin

FEBRUARY • 2001

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

February Dinner Meeting

FRIDAY, FEBRUARY 23, 2001

Ann Sather Restaurant
929 W. Belmont
Chicago, IL
773-348-2378

DIRECTIONS TO THE MEETING

From the North or Northwest Side: Head Eastbound on either I-90 or I-94. Exit on Irving Park Road. Head east on Irving Park Road to Clark Street. Turn right (south) onto Clark Street and go one mile to Belmont. Turn right on Belmont and the restaurant is on the left at 929 Belmont.

From the Southside or the Loop: Take Lakeshore Drive north to Belmont. Exit and head left (west) about one mile to the restaurant at 929 Belmont.

Ann Sather Restaurant is located on Belmont just west of Clark and just east of Sheffield. It is within a half block of the Belmont elevated station.

PARKING: Entrance to the restaurant's lot is at 913 1/2 Belmont. The lot is behind the restaurant. Additional, pay parking lots are located on Clark Street just north of Belmont.

The meeting is on the second floor of the restaurant. Handicapped persons should get special instructions from the Section Office.

TOPICAL GROUP 5:30 - 6:30 PM

"The Role of the Section Office in the Life of the Chicago Section", presented by Dr. James P. Shoffner.

Abstract: The first section office was established in 1923 as a part-time operation. This operation became full-time in 1929 when Olga Wagbo was hired as

the first full-time secretary for the section. From that time to the present day, we have had full-time support for section activities, with sometimes as many as three full-time and 3-4 additional part-time employees during the period when we ran the National Chemical Exposition. Jim will highlight the overall positive effect that this great resource of support has had on our programs and activities, as well as the individuals responsible for running the office.

Jim gave a similar presentation for the 100th Anniversary Symposium commemorating the founding of the section at the request of Jim Doheny. He is dedicating this talk to the memory of Jim Doheny and Ellen Cozzens, both recently deceased; and in honor of Ron Sykstus, our most recent section executive director, now retired. We are, indeed, a greater, more outstanding section today because of the dedicated service over many years of these individuals.

Speaker's Vitae: Jim Shoffner received a Ph.D. in organic medicinal chemistry from the University of Illinois-Chicago in 1965. As an industrial research chemist, he carried out research in carbohydrate chemistry and organic process R&D for CPC International and UOP Inc. over a period of 35 years. After retirement from UOP in 1993, he joined the staff of the Science Institute of Columbia College as an adjunct professor and consultant in science education.

He has been active in ACS at the local section, division and national levels. Locally, he has been section chair, member of the board and served on and led many committees and task forces. Nationally, he has served on the committees on program review, economic status, project seed, public rela-

tions, council policy, nomination and elections, minority affairs and science, including serving as chair of SEED from 1983-85 and vice chair of N&E in 1999. He is presently a member of four divisions: organic, petroleum, industrial & engineering and professional relations. He was recently elected to a three-year term as director-at-large and will serve on the ACS board from 2001-03.

He has been very active in science and public policy issues for nearly thirty years, leading in the establishment of the public affairs committee for the Chicago Section in 1973. He has served on the Science Task Force of the Governor of Illinois and the Task Force on Hazardous Waste for the Attorney General of Illinois, and as a delegate to the Illinois White House Conference on Libraries. He has received awards and recognitions for his service to the society and the profession, including the Henry Hill Award in 1997 and the Chicago Section Public Affairs Award in 1986.

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

Cash Bar Available

Dinner 7:00 P.M.

Dinner reservations are required and should be received in the Section Office via phone (847-647-8405), fax (847-647-8364), or website (<http://membership.acs.org/C/Chicago>) by noon on Tuesday, February 20, 2001. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

Menu: Fresh spinach salad with cheese and tomatoes served with celery seed dressing; Entrée selections are grilled marinated breast of chicken,

(continued on page 2)

(continued from page 1)

baked orange roughly stuffed with spinach, mushrooms and onions, or Swedish pancakes with lingonberries and a side of vanilla ice cream. The orange roughly and chicken entrees are served with wild rice pilaf and fresh steamed vegetables. Dessert platters include bite-size brownies, Swedish lemon squares, and petit fours. Assorted rolls and breads include Ann Sather's Famous Cinnamon Rolls. Beverage choice of coffee, tea, or soda.

The cost is \$28.00 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$30.00.

GENERAL MEETING 8:00 P.M.

Ms. Shahna M. Richman, Special Agent, FBI, Chicago Division, will present a talk entitled, "Bioterrorism in the US".

Abstract: Weapons of Mass Destruction (WSD) are of great concern to the FBI. Cases filed with the FBI regarding WSD, primarily those dealing with attempted procurement or threatened use of chemical, biological or nuclear materials, have steadily increased in recent years. Threatened release of biological agents has become the most prevalent component of this disturbing trend. These trends reinforce the US Government's need for comprehensive and coordinated preparedness to properly address the threat of these weapons. In recent years, the FBI has formed several specialized units, in order to combat the continuing threat of terrorist use of chemical, biological and nuclear weapons, particularly the Hazardous Materials Response Unit (where Ms. Richman works) and accompanying investigative Terrorism units. She will be discussing WSDs and how the FBI is involved with these hazardous weapons.

Speaker's Information: Shahna Richman is a Chicago native. She received her B.A. in Political Science from University of Hartford, CT and her M.S. in Forensic science from University of New Haven. In addition to her formal education, she continues her forensic and criminal investigation skills by taking specialized courses taught within the FBI. Before joining the FBI, she worked as a Police Officer and Detective in Connecticut, joining the FBI in 1996.

At the FBI, she is part of two teams: the North Suburban Major Crimes Task Force, focusing on the forensic aspects

of cases, and the FBI Hazardous Materials Response Team, where the team investigates all incidents where bio-hazardous chemicals are accidentally or intentionally released. In addition, she finds time to teach a variety of forensic-related courses, within the FBI as well as locally at Harper Community College and University of Chicago.

She is a member of the American Academy of Forensic Scientists, the Association of Forensic Examiners and the Forensic Science Society, as well as the International Association of Forensic Identification and National Society of Forensic Examiners. She has participated in several research projects pertaining to forensics, which have resulted in several publications.

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.

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

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

Applications and requirements for both scholarships will be available on the CCDG web site (www.ccdg.org) by mid-January of 2001. Applications will be accepted until April 30, 2001. For more information contact the CCDG Awards Chairperson, Jim Michels, at (630)-305-2318 or jmichels@nalco.com.

IN THIS ISSUE:

CCDG Scholarships
Engineer's Week 2001
Tributes to Jim Doheny
Chemshorts for Kids
Project SEED Handbook
Holiday Party
Public Affairs Awardee
Chemistry Day 2000

ENGINEERS' WEEK 2001: TURNING IDEAS INTO REALITY

Illinois Institute of Technology's Daniel F. and Ada L. Rice Campus will showcase the interactive and diverse world of engineering in its 17th annual DuPage Area Engineers' Week program on February 24, 2001.

The Saturday event, which will be open from 12 noon to 4 pm, features interactive displays and presentations. Emphasis will be placed on work produced by teams of students from middle and high schools as well as from IIT's IPRO program. There will also be a number of adult presenters as well as the ever-popular Rube Goldberg contest and a Lego(r) robotics competition.

The DuPage Area Engineers' Week program is held in conjunction with National Engineers' Week, February 18-24. The DuPage program, initiated by IIT's west suburban Rice Campus, is a joint effort among professional engineering societies, the two area national laboratories, businesses, educational institutions, and community organizations.

This year's program is again being co-sponsored by Education to Careers, a state initiative dedicated to providing students the opportunity to interact with various professionals and to get a better feel about what career might be right for them. This will certainly aid our objective of communicating what engineering is and what engineers do; attracting young people to careers in engineering, science and technology; and increasing the scientific literacy of the community.

IIT's Rice Campus is located at 201 East Loop Road, Wheaton. For more information on the DuPage program, visit the program's web site at www.rice.iit.edu/engineersweek or call 630/682-6040.

AN AFTERNOON WITH JIM DOHENY

Jim Doheny had been active in the Chicago Section for longer than most of us had been alive until about two years ago when we began to miss him at board meetings and section meetings. Our only contact with him was through Ron Sykstus, who would call him occasionally. We knew that all was not well when he failed to make several council meetings and we had to find alternates to replace him. At the ACS National Meeting this past August he was given a plaque for 50 Years of service on the council. I received the plaque for him and we were determined to make sure that he got it. Several of us began to make calls and finally Adele Rozek and Elaine Anderson located him in a nursing home on North Avenue in Oak Park. At last, on the afternoon of Friday, October 20, Adele, Elaine, Tom Kucera, Nat Gilham and I met at the Woodbine Nursing Home to see our old friend and colleague. The staff had been informed of the purpose of our visit and had prepared a cake lettered with the message "Congratulations Jim", juice and coffee, and reserved the parlor for our visit.

As I walked in Jim recognized me and said "Hello Jim" before I could greet him. I was heartened by the warm greeting afternoon, not having seen him for so long. I later presented him with his plaque and gave him his copy of the letter that I had sent out to all councilors regarding my race for ACS Director-at-Large. He looked it over and told me that he would be happy to vote for me if "You run for president." It was wonderful to see that he still had his sense of humor. We were greeted warmly by all of the staff who were very pleased to know that one of their residents was a "celebrity." They told us that they were going to see to it that Jim's plaque would be hung on the wall of his room so that everyone who visited him could see it. After several rounds of picture taking and wonderful fellowship, we departed with plans to come back regularly and perhaps take him to lunch. Alas, our plans were short-lived because Jim died on October 31. But all of us were comforted by the thought that we had found him, and presented him with his council recognition plaque while he was still very much alive.

Jim Shoffner

JIM DOHENY, 1906-2000

In an earlier article I described our last visit with Jim. I shall try now to say something about Jim, the whole person, whom I knew for forty years and worked with very closely for more than thirty. This isn't easy because I know that despite the fact that I knew him for a long time, how well do you really know anyone with whom you have had a professional, albeit very friendly working relationship? But on the other hand, thirty-some years is a good long while and amounts to a lot of time spent in meetings discussing, debating, sharing — all those human activities that we engage in when working together for a common cause in order to fulfill a mission.

Jim was a member of the American Chemical Society for 74 years, probably joining while he was a student at IIT. He received his M.S. in chemical engineering from IIT in 1932. He later taught at St. Mel High School until WWII when he served with the Army Chemical Warfare Corp in the China-Burma-India theater of operations. He came to the Chicago Section Office as manager in 1949 and served simultaneously as manager of the National Chemical Exposition (NCE). After retirement in 1971, he was a consultant to the NCE until it was taken over by National ACS in 1977. He also worked as a consultant for Marvin Park & Associates from 1985 until 1998.

For the Chicago Section, he was a councilor from 1951-2000, alternate in 1950, secretary 1934-42, comptroller 1973-91, House Committee, 1927-34; Liaison to CATS (Chicago Association of Technological Societies), and served as unofficial parliamentarian and historian. He served as chair for the 100th Anniversary of the Section's founding in 1995. He was a member of the Division of Chemical Literature, serving on the philatelic exhibit committee, 1983-90; and the membership committee, 1957-65.

With the National ACS, he served on the Committee on Nominations and Elections, 1989-90; Committee on Meetings & Expositions, associate, 1977, member, 1973-75, 1978-83; ad hoc committee for establishment of Chemical Science Center, 1977-79.

In addition to his activities with ACS, Jim was a member of AAAS, Society for History of Technology, Society for Study of Alchemy & Early Chemistry; Dechema, Chicago Chemists Club, Chemists Club of New York, Alpha Chi Sigma, and the American Institute of Chemists (Fellow).

Beyond his many contributions to ACS, he was also active with the Chicago Chemical Industries Council as a member of the Education Committee.

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He participated in organizing teacher workshops and student career conferences held each year at the Museum of Science and Industry. He was a member of the National Association of Exposition Managers from the time of its founding, serving as the national president in 1965-66.

In addition to his professional society memberships and activities, he was very active in many social and cultural organizations. In particular, he had an interest in and was a collector of music boxes. He belonged to Music Box Society International (MBSI) and the AMICA Automatic Musical Collectors Association. He served as recording secretary and parliamentarian for the Mid-America Chapter of MBSI. He was a member of the Industrial Light Gardening Society (ILGS) and the Windy City Gardeners. He served as national president of the ILGS in 1978. His plant specialty was the growth and care of bromeliads - which includes plants of the pineapple family. With all of these organizations, he used his talents and skills as a meeting organizer to help in the planning and organization of meetings. He was active in all of them until a few years ago when his health began to decline.

Jim was a class act. I remember him as a friend, a mentor and a person who genuinely loved the Chicago Section and the American Chemical Society. With his many contacts and affiliations, he traveled widely. I remember meeting him several times at O'Hare either coming or going on one of his trips. He was an authority on technical expositions and a lot of his travels were to visit expositions and exhibits all over the globe. He always attended the Dechema exhibition every year in Germany, which he said was the best in the world. He was generous in his praise for a job well done and he could be equally critical of work he considered to be sloppy and slipshod. In either case, he was usually right on target. To say he will be missed is trite but true. Truth to tell, he already has been. Thanks, Jim.

Jim Shoffner

"CHEM SHORTS" For Kids

EXPERIMENTS WITH YEAST — PART III OF III

Kids, did you make your own bread from yeast according to the last few columns? We hope you did, but if not you can still do quite a few experiments with store bought yeast. The first experiment here tests how sugar effects the growth of yeast. Fill two 1-cup glass-measuring cups with 1/2 cup warm water. In one cup, add 1 tsp sugar. Put 1/4-ounce package of active dry yeast in each cup, stir, and wait 10 minutes. Which cup has more yeast foam and why? Is sugar necessary for the growth of yeast and why? Is yeast alive? Make a yeast solution using 1/2 cup warm water, 1 tsp sugar, and 1/4-ounce package of active dry yeast. Each day, transfer 1 tsp of original yeast solution to a solution of 1/2 cup warm water and 1 tsp sugar. Make another sugar solution and add 1 tsp water daily. Keep a record of observations for five days. Does the yeast culture continue to multiply even though it is diluted by the daily transfer?

When flour, sugar, water, and yeast are mixed, what happens? Get two empty 1-liter soda bottles and two balloons. Fill each soda bottle with a 1/4-ounce package active dry yeast, 1 tsp sugar, and 1 cup room temperature water. In one bottle, add 2 Tbsp all-purpose flour. Secure a balloon on top of each soda bottle. Record and time what happens to the balloons. What is the difference between them? Does flour make a difference in the length of time the fermentation works and why?

What effect does temperature have on the fermentation of yeast? Again get two empty 1-liter soda bottles and two balloons. Fill each bottle with a 1/4-ounce package active dry yeast, 1 tsp sugar, 2 Tbsp all-purpose flour, and 1 cup room temperature water. Set one bottle in a vessel with warm water. Set the other bottle in a vessel with ice water. Secure a balloon on top of each soda bottle. Observe and record results. What effect does temperature have on the fermentation of yeast? When was the difference most noticeable? Read over the last two columns for interesting facts concerning yeast and they will also help you answer the questions asked here.

Reference: www.redstaryeast.com ("The Science of Yeast" webpage). For microscopic photos of budding yeast

cells check out: <http://goodquestion.net/beer/info/yeast.html> or www.bath.ac.uk/Departments/BiolBioch/wheels2.html

Written by: K. A. Carrado, Elementary Education Committee. Past "ChemShorts" are on the internet at: <http://membership.acs.org/C/Chicago/ChmShort/kidin dex.html>

The Project SEED Student, Mentor and Coordinator Handbook, put together by the National ACS Council Committee on Project SEED, is now available online at www.acs.org/education/student/projectseed.html.

Cherlyn Bradley

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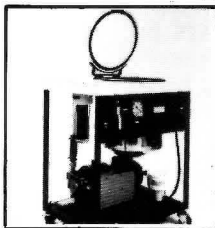
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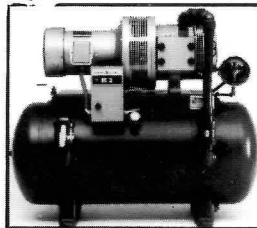
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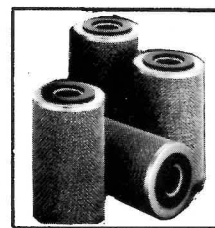
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HOLIDAY PARTY

There were 174 practicing or honorary chemists in attendance at our annual Holiday Party, held jointly with the Chicago Chemists Club, at Monastero's Ristorante on December 15, 2000. Our thanks and appreciation to the following for providing gifts and favors: Alberto Culver; Blistex, Inc.; Chicago Chemists Club; Illinois Tool Works, Inc.; Iota Sigma Pi Sorority; TEI Analytical, Inc.; The Chicago Section Office Staff.

Special thanks to Hospitality Chair Allison Aldridge. Tomas Ramos was a big help in putting the party together. She and Jennifer Horne were Santa's helpers, handing out raffle gifts. Elaine Anderson helped decorate the tables. House Chair, Frank Jarzembowski, did a great job in picking the menu and arranging for the restaurant. Our speaker, Dr. John Fortman, delivered an informative and entertaining talk.

HON. HARRIS FAWELL, FORMER CONGRESSMAN FROM 13TH DISTRICT (IL) IS 2001 PUBLIC AFFAIRS AWARDEE

The Chicago Section ACS Public Affairs Awardee for 2001 is former congressman Rep. Harris Fawell (R, 13th District). Congressman Fawell retired from Congress two years ago. He was noted for reaching out to the science and technology community, having had a science and technology advisory committee composed of scientists (some chemists, including a member of the Public Affairs Committee) and engineers from his district. His former district includes Argonne and Fermilab, as well as BP, Nalco, and Lucent, among other R&D establishments. Because he was unable to make the March 23 date we have changed the date of the meeting to Friday, March 16. The meeting will be held at the Como Inn.

The Public Affairs Award was established by the Public Affairs Committee of the Chicago Section of the American Chemical Society in 1982. The award was established to recognize individuals who were involved in science and public policy issues and who were residents of the EPA Region V during the time period for which he/she is being recognized.

We hope that the change in date will not affect your attendance at the Public Affairs Award presentation on March 16. Additional information will be provided in the March edition of The Chemical Bulletin or contact the section office at (847) 647-8405.

Jim Shoffner and Barb Moriarty
Co-Chairs, Public Affairs Committee



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ANALYSIS FOR THE CHEMICAL ELEMENTS	

CHICAGO SECTION — CHEMISTRY DAY 2000

National Chemistry Day was celebrated in Chicago on the campus of Loyola University Chicago. Over 1100 participants browsed the exhibits and demonstrations, participated in the activities, and attended the presentations during the course of the day. The main targets were middle and high school students, but a good number of grade school students and home-schooled students also attended. This event was sponsored by the Chicago Section of the American Chemical Society, the American Institute of Chemical Engineers (AIChE), the Chemical Industries Council of Illinois, ChemWest, and Loyola University Chicago.

The main lecture hall in Flanner Hall was the site of presentations covering subjects ranging from the water cycle and environmental chemistry to chemistry on the internet and the human genome project. A seminar on mercury safety, by Steve Sichak, was very timely for Chicago residents. The finale, "Is it Chemistry, or is it Magic," presented by Dr. Otis Rothenberger and Dr. James Webb of Illinois State University included explosions, fire, and colorful oscillating reactions that were used to entertain as well as to instruct. Serious issues were also connected to the "magic," including the value of the chemical profession to society and the need for chemists to help solve current problems, especially those of their own making.

A wide assortment of hands-on experimentation, exhibits, and demonstrations were there for students to sample. The Loyola ACS student affiliate, with Angie Boerger, Kristin Garis, & Tim Thomas organized some spectroscopy lab work and the traditional "pH is pHun" hands-on experimentation. Karl and Charlotte Anderson organized an excellent group of area high school teachers who conducted an array of wonderful demonstrations throughout the day. Daria Darczak of Medichem Research organized the Poster Contest with volunteers from her company. Avrom Littin and Larry Thielen coordinated and organized the industrial and government exhibits that were spread out over three floors of Flanner Hall.

Acid-base chemistry was, as always, a good teaching tool. Color changes, the appearance and disappearance of precipitates, etc. were used by Marty Landorf of Maine West HS to explain the fundamentals of chemical reactions. The "pH is pHun" area allowed visitors to measure the pH of various household materials. More kitchen chemistry emerged in this area with the use of red cabbage extract as a universal acid-base indicator. Spectra of a different

sort were observed in the spectroscopy lab. "Pizza-box" spectrometers were used to study the spectrum of white light and to measure the frequencies of neon and helium lamps.

The AIChE had an animated display of the applications of chemical engineering to life support systems on the Space Shuttle. Argonne National Laboratory showed a magnet levitating by means of superconducting material. NALCO demonstrated how water-soluble polymers can help flocculate aqueous contaminants, aiding in water purification. Also on hand were displays from the Chicago Police, the Drug Enforcement Administration, the Illinois Water Environment Association, and the Aerosol Industry Development Association, as well as various ACS section committees, such as the Minority Affairs and the Legislative Action Network.

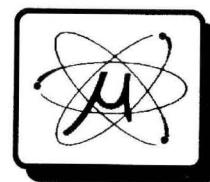
BP provided an assortment of demonstrations and activities. Conventional insulating polymers were contrasted with plastics that conduct heat and are useful in keeping computers cool during use. Participants could also do some glass blowing or make some mysterious "green goo." A microscope connected with a video display allowed the observation of a water flea. This species of insect is used by BP to monitor water quality in the environment. Prizes were waiting for whoever could correctly guess the number of water fleas in a jar. The increased density of soft drinks that contain sugar could be demonstrated by comparing the rapid sinking of the more dense, sugar containing, soft drink cans versus the aspartame sweetened soft drink cans which would float.

Other exhibits also included "hands-on" activities. The Younger Chemists' Committee provided a chance to do "kitchen chemistry," including whipping egg whites to make an expanded foam (a.k.a. meringue). Unilever demonstrated the development and use of some of its personal care products. A set of mannequin heads bobbed up and down throughout the day, showing a live-action test of hairspray durability. Displays on emulsions and chromatography showed other tools used in this industry. Chromatography also was a big hit in the hands-on labs that were set up. The experiment set up by a group of teachers from Maine South HS allowed participants to draw designs on paper in ink. Capillary action of water through the paper separated the dyes in the ink, yielding some colorful displays. Participants could also try their hands at predicting the relative densities of colored liquids, measuring surface tensions of alcohols, and performing microscale reactions.

One of the most popular demonstrations was the "Cryogenics is Cool" show, conducted by Allan Stenmark from Wisconsin. The implications of thermal expansion and contraction were on display as balloons were deflated or exploded, liquid nitrogen was sprayed from a tube, and rubber stoppers were shot over the crowd. Other periodic shows involved more colorful reactions (choreographed with a little homemade music) as well as some unusual Bunsen burners.

Every attendee received a periodic table card for individual reference and as a memento. Copies of "A Science Odyssey" by Charles Flowers were given to the demonstrators and the presenters. The students received a check off list that they could take to various exhibitors and demonstrators for verification of their attendance and participation at this event.

An active committee chaired by Tom Kucera and David Crumrine together with over 60 volunteers helped to make this day enjoyable, and educational, for the visitors. The students, teachers, parents, and casual observers saw not only the breadth of chemistry in real life but also the enthusiasm and expertise its practitioners bring to this important discipline. This article involves the work of Jonathan Taylor, Ellen Sullivan, Tom Kucera, and David Crumrine.



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Call for Papers

❖ **Deadline – March 31, 2001** ❖

2001 Eastern Analytical Symposium

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The Eastern Analytical Symposium is the second largest meeting in the United States dedicated to the needs of analytical chemists and those in the allied sciences. Please help us to make the 2001 EAS the best ever—be a part of the program by contributing your own papers for inclusion in the oral or poster sessions.

To submit a contributed paper for the 2001 EAS Technical Program, you should submit a 200–to 250–word abstract of the proposed paper, indicating your preference for either oral or poster format, to EAS Program Committee, at the address shown below. Preliminary abstracts can also be submitted by FAX to 610-485-9467, at our web site (<http://www.easorg/>), or via e-mail (EASINFO@AOL.COM). *Please submit each preliminary abstract only one time and only use one method to submit it.*

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

- Title of the Presentation
- Complete names, mailing addresses, telephone numbers, and fax numbers for all authors
- If the presentation is intended for the undergraduate research symposium, please indicate it clearly on the abstract and also please indicate which author is the student and which author is the faculty advisor
- Your preference for oral or poster format
- Approximately six keywords that can be used to categorize the subject matter of your presentation

If you have questions concerning the submission of presentations for the 2001 EAS please contact us at:

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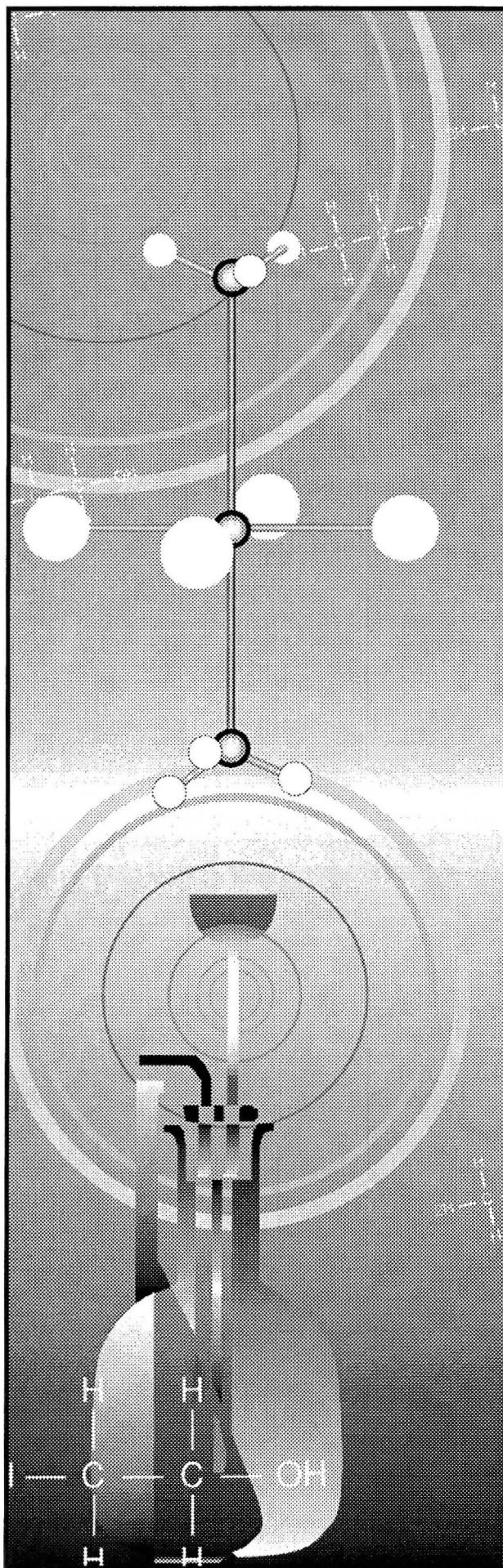
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**CHICAGO SECTION, AMERICAN CHEMICAL SOCIETY
THE CHEMICAL BULLETIN
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CALENDAR

February 14, 2001: The Chicago Chemist Club will meet at the Mirabell Restaurant, located at 3454 W. Addison St. at 6 p.m. Prof. Porter Johnson (IIT) will present "Physics of Baseball-Why Baseballs Curve". For additional information call Walt Kramer at (847) 967-8457.

March 16, 2001: The Chicago Section American Chemical Society and the Public Affairs Committee will celebrate the presentation of the Public Affairs Award to Hon. Harris Fawell, Former Congressman from 13th District (IL), the 2001 Public Affairs Awardee. For additional information call the Section Office at (847) 647-8405.

March 19-22, 2001: The Chicago Chromatography Discussion Group will offer its annual spring Gas Chromatography School at Roosevelt University in Schaumburg. Watch <http://www.ccdg.org> for more information.

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 222nd National Meeting in Chicago, IL. For more information contact the ACS at (202) 872-4396 or <http://www.acs.org/meetings>.

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