

# theCHEMICALbulletin

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

JANUARY • 2002

## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

### Regular Monthly Meeting

**FRIDAY, JANUARY 25, 2002**

**Manzo's Banquets**  
1571 S. Elmhurst Road  
Des Plaines, IL  
847-593-2233

#### DIRECTIONS TO THE MEETING

**From the East:** Take I-90 west. Exit Elmhurst Rd North. Go past first light (Oakton St.). The banquet hall is on your right.

**From the West:** Take I-90 east. Exit Arlington Heights Rd. Turn right. Go to Higgins Rd. (Rt. 72). Turn left. Take Higgins to Oakton St. Turn left. Go to Elmhurst Rd. Turn left. The banquet hall is on your right.

**From the North:** Take 294 south to I-90 west. Exit Elmhurst Rd. North. Go past first light (Oakton St.). The banquet hall is on your right.

**From the South:** Take 294 North to I-90 west. Exit Elmhurst Rd. North. Go past first light (Oakton St.). The banquet hall is on your right. Another way from the South is to take I-355 North to I-90 east. Exit Arlington Heights Rd. Turn right and go to Elmhurst Rd. Turn left. The banquet hall is on your right.

**PARKING:** Free

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

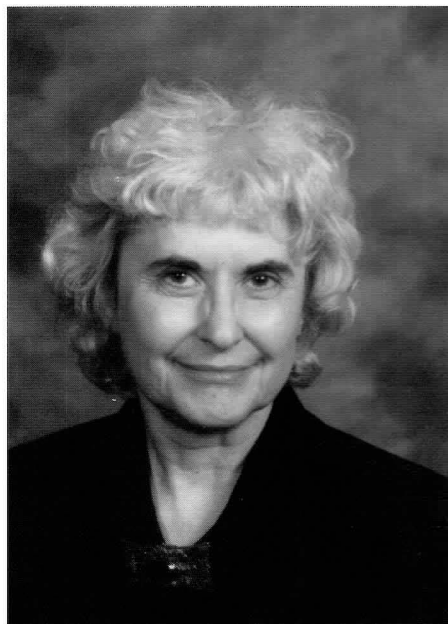
**DINNER** 7:00 P.M.

**Menu:** French Onion Soup, tossed salad with choice of Italian or French dressing, combination plate of New York Strip Steak and Chicken Breast Limone, Bruschetta salad, baked potato, rolls and butter, Crème De Menthe ice cream, and beverage. Also available are a fish entrée (Orange Roughy) or

vegetarian entrée (Pasta Primavera with a flavorful Marinara sauce) upon request at the time of reservation.

**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 22, 2002. The dinner cost is \$28.00 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$30.00. The cost to students and unemployed members is \$14.00. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

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



**Phyllis E. Bowen, Ph.D., R.D.,** Department of Human Nutrition, College of Applied Health Sciences, University of

Illinois at Chicago

**Title:** Modulation of Biomarkers of Carcinogenesis by Tomato Sauce Feeding in Men with Prostate Cancer

**Abstract:** As part of a larger study to evaluate the effect of lycopene supplementation on DNA damage in men with prostate cancer or high serum PSA concentrations, a non-randomized 5th arm using tomato sauce was included. This portion of the study has been completed and the results analyzed before and after tomato sauce supplementation. Thirty-two patients with localized prostate adenocarcinoma consumed tomato sauce-based pasta dishes for 3 weeks (30 mg lycopene/day) before their scheduled radical prostatectomy. Serum and prostate lycopene concentrations, serum PSA, and leukocyte DNA 8-OH-deoxyguanosine/deoxyguanosine(8OHdG) were measured at baseline and at the end of the intervention. Resected prostate tissue DNA 8OHdG from the study participants and 7 randomly selected prostate tissues from a control group were also evaluated. Cancer cells in paraffin sections of prostate biopsies and post-intervention resected tissue were compared for 8OHdG staining using a monoclonal antibody for 8OHdG. Adherence to the daily consumption of tomato-based

*(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 January meeting will have the opportunity to earn up to 3 CPDU's.

(continued from page 1)

entrees was excellent and serum and prostate lycopene concentrations increased 1.97 and 2.92 fold ( $p < 0.001$ ) respectively. Mean serum PSA concentrations decreased by 17.5% ( $p < 0.002$ ) and leukocyte 8OHdG decreased by 21.3% ( $p < 0.005$ ) after tomato sauce consumption. Study participants, at the time of resection, had 28.3% lower prostate 8OHdG concentrations compared to controls ( $p < 0.03$ ). The amount of oxidative damage to nuclear DNA in prostate cancer was greatly reduced by assessment of two pathologists and by mean nuclear density (40.5%,  $p < 0.005$ ), and mean area (36.4%,  $p < 0.018$ ) staining. Apoptotic index was increased in tumor and hyperplastic tissue. These data taken as a whole indicate good uptake of lycopene into prostate tissue and a reduction in DNA damage in both leukocytes and prostate tissue. Whether reduction in DNA damage to prostate cancer cells is beneficial awaits further research.

**Biography:** Dr. Bowen received her Ph.D. in Nutrition from Cornell University as well as her M.S. degree. She received a B.S. degree from Iowa State University in Food Science. She was a faculty member in the Department of Human Foods and Nutrition at Virginia Polytechnic Institute and State University for 6 years, has been part of the faculty of the Department of Human Nutrition and Dietetics at the University of Illinois for 17 years and is currently Associate Professor. She has held various Departmental assignments including Acting Head, Associate Head, Director of Graduate Studies and Coordinated Undergraduate Program Direction and Director of the Nutrition and Metabolism Laboratory. She has received several teaching awards for her undergraduate and graduate teaching.

She was a founding member and associate director of the Functional Foods for Health Research Program, a joint campus program of the University of Illinois with over 90 faculty members and 28 industrial affiliates. She headed the clinical trials that formed the basis of the Ensure plus Fiber nutritional formulas and reformulation of Regular and Ensure plus Fiber (Ross Products Division, Abbott Labs).

Dr. Bowen is internationally known for human metabolism/function studies on carotenoids, lipids, and vitamin E with over 65 publications in the field. She is a founding member and past chair of the Carotenoids Interaction Research Group which has an international mailing list of 400 scientists and is on the founding steering committee for the International Carotenoids Society. She

has served on the Council for Research and Chair of the Research Dietetics Practice Group in the American Dietetics Association.


Her current research interests include the human metabolism of carotenoids and dietary factors that produce/reduce oxidative stress. Her current projects include studies of the effect of tomato, lycopene, prune and vitamin E consumption on DNA damage and lipid peroxidation in patients with prostate cancer, diabetes or dyslipidemia.

## 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
February 2002 .....	12/28/01
March 2002 .....	1/25/02
April 2002 .....	2/22/02
May 2002 .....	3/29/02
June 2002 .....	4/26/02

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## SECTION'S 50-YEAR MEMBERS

The Chemical Bulletin honors those of our Section who have been members for 50 years in 2001. Congratulations!

Louis Baker, Jr.  
 Roy H. Bible, Jr.  
 Tai S. Chao  
 Herbert Diamond  
 William E. Dominick  
 Martin E. Ginn  
 Richard L. Gregory  
 Martin Hamer  
 Daniel W. Havens  
 Michael A. Jordan  
 Donald J. Jutzi  
 Frank N. Kemmer  
 Thomas Keyahian  
 Jack E. Klingbeil  
 Henry M. Koehler  
 Aletha Kowitz  
 Leonard Leibowitz  
 Donald F. Mason  
 John McCallion  
 Kenneth R. Rentmeester  
 Ralph M. Robinson  
 Shiro F. Shiraga  
 George L. Shoup  
 Arthur C. Sinclair  
 Robert L. Stoffer  
 George H. Wamsley  
 Daniel Wearing  
 Rubin Weiner  
 Carl F. Zitzewitz, Jr.

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## "CHEM SHORTS" For Kids

### Icy Explorations

Kids, let's try to take advantage of the cold weather here in the Midwest. You know that a backyard pond or lake in winter can be a magical place. It is also filled with many scientific wonders. These bodies of water freeze from the top down, and they do so for two reasons. The top is closer to the cold air for one, but mostly it's because water has the amazing property of getting lighter as it freezes. That's why ice floats. In liquid water, the H<sub>2</sub>O molecules can pack together very tightly and randomly (without a regular structure). In ice, the molecules form hexagonal (six-sided) crystals, like a tiny honeycomb. This arrangement forces the molecules farther apart than in liquid, which is why ice is less dense and therefore lighter than water. The ice crystals are so dominant that they work hard to force out gases and impurities. If you look at the edge of a pond that is solidly frozen, you should see clear ice with some trapped bubbles. The ice might look dark, even black, but that is the dark water underneath. You might see plant life and even fish (like perch) underneath. They'll all look magnified because of the ice.

Try this way to visualize the internal crystal structure of the ice. Buy two polarizing filter sheets from a science supply or hobby store. These are similar to what is used in sunglasses to block certain wavelengths of light. On a cold day, look for puddles on your street or in your yard that have formed a skin of ice. Pick up a piece of the ice and press it between the two polarizing sheets. This part is important — make sure the two sheets are at right angles to each other. Now hold the "ice sandwich" up to the light and observe.

Have you heard grinding noises at the edge of a frozen lake? It's from expansion and contraction of the ice along cracks and fractures formed between different layers. You need AT LEAST four inches of solid ice to walk on, so don't walk onto a frozen lake or pond until an adult has measured the thickness. Despite the grinding noises, ice can be incredibly strong. In some places lakes freeze over a foot thick, which is enough for small vehicles. While strong, ice is also flexible. No vehicle can go faster than 10-20 mph over ice, because waves can form in the flexible ice sheet and this stress can break it apart.

Here's a fun fact. You know that polar bears live on ice and snow, and that

they are white, right? Wrong. A polar bear's fur is actually made up of transparent, hollow hairs. Each hair works like a tiny fiber optic tube, and channels the sun's heat to the bear's black skin, helping it to stay warm. The clear hair reflects light, just like ice and snow, which makes them all appear white. This is all "cool" stuff, isn't it?

Submitted by Dr. K. A. CARRADO.

**Reference:** Tom Connor and Martin Jeffries, *Scientific American Explorations* magazine ([www.explorations.org](http://www.explorations.org)), Winter 2002, p. 28.

P.S. Check out an exhibit called "Animals of the Ice Age" through 5/20/02 at the SciTech Museum in Aurora, IL.

All past "ChemShorts": <http://membership.acs.org/C/Chicago/ChmShort/kidindex.html>.

### CONTINUING EDUCATION SEMINARS

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

The January program to be held on Saturday, January 26, 2002 will be on Job Searching for Chemists given by Carol Vancura from the Human Resources center of MediChem Research Inc. This presentation is intended for students, unemployed chemists, or those looking for new positions.

There is no cost for this program. 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.

The tentative schedule of courses through March 2002 is:

February 16 — Chemical Information on the Internet

March 23 — New Topics in NMR

### FREE T-SHIRTS

The Hospitality Committee will be raffling off 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 Ron Glowinski (November meeting).**

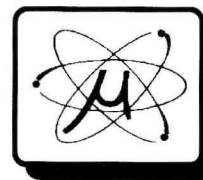
FRAN KAREN KRAVITZ  
HOSPITALITY COMMITTEE CHAIR

January, 2002 Vol. 89, No. 1. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor, and Fran Kravitz; Ellen Sullivan, Business Manager. Address: 7173 North Austin, Niles, Illinois 60714. 847/647-8405. Subscription rates: \$15 per year, \$15 outside North America. Frequency: monthly-September through June.

### CONTACT THE CHAIR

Do you have any questions, suggestions, ideas, gripes, complaints, relating to the Chicago Section? Do you want to volunteer to help with Section programs or activities? Then contact your Chair. Simply log onto the Section's Web Page at <http://membership.acs.org/C/Chicago>, find the green button "Contact the Chair", and send me an e-mail. If I can answer your query, I will respond personally. If I can't, I will forward your e-mail to someone who can, or try to provide you with a contact. All in a timely manner. I look forward to hearing from you.

HERB GOLINKIN  
Chair



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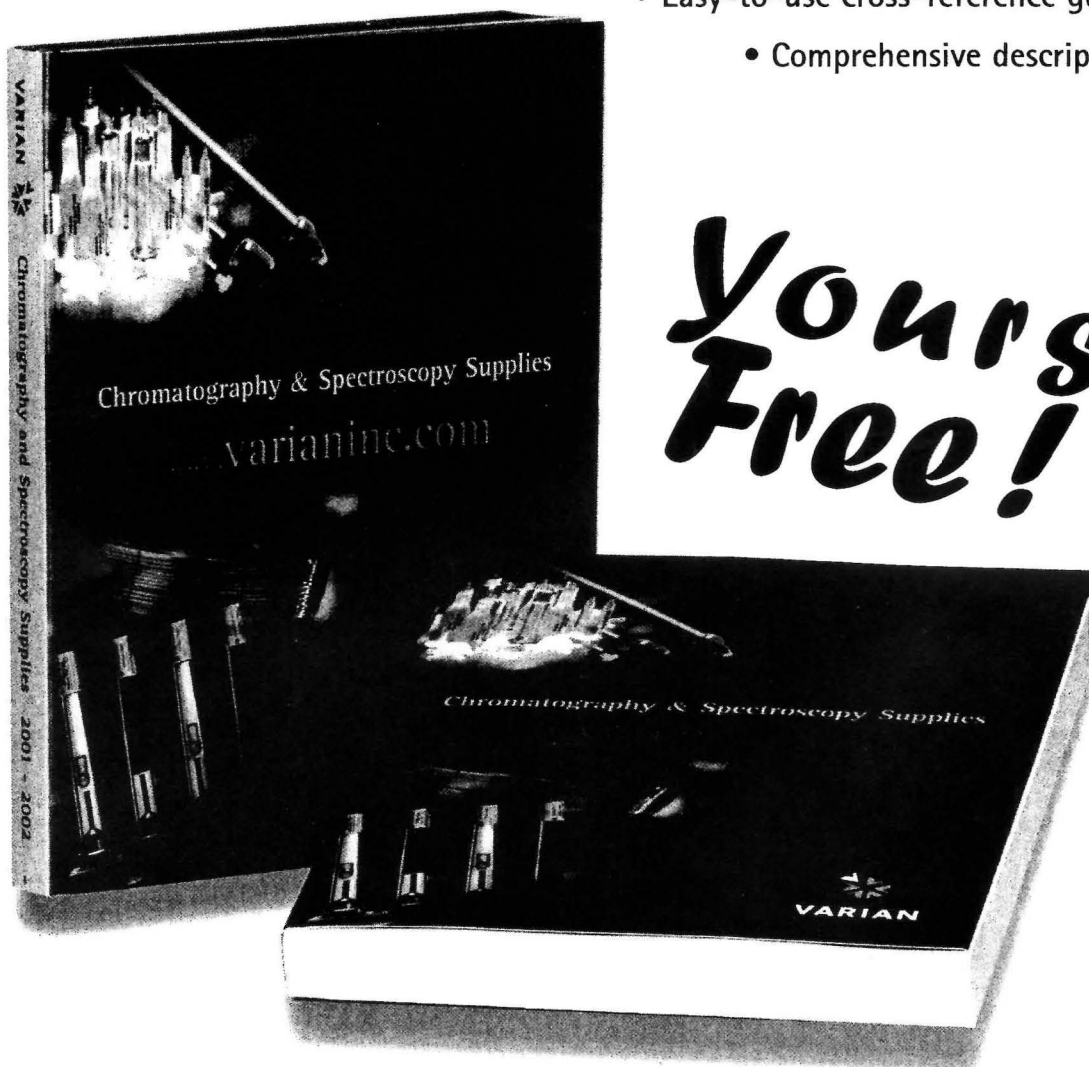
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## PUBLIC AFFAIRS MEETING TO FOCUS ON GREEN CHEMISTRY

For the past 14 years our public affairs meetings have alternated between award presentation in one year, followed by a public affairs lecture(s) in the next year. For March 2002, we will be presenting two lectures. The topic this year will be "Green Chemistry." The first lecture, at 5:30 p.m., will be presented by Dr. William Nelson of the Illinois Waste Management and Research Center. His talk will be based on his research using carbon dioxide as a solvent for traditional organic reactions, such as Friedel-Crafts and other acid catalyzed reactions. The after dinner talk will be given by Dr. Dennis Hjeresen, Director of the ACS Green Chemistry Institute (GCI). The GCI was established by the ACS in 2000 with the following mission: "The Green Chemistry Institute promotes national and international government-industry collaboration with universities and national laboratories." So, please give Friday, March 22 a prominent place on your calendar of events for 2002.

JIM SHOFFNER  
CO-CHAIR, PUBLIC AFFAIRS  
COMMITTEE

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## CHEMISTRY DAY - 2001

For the 15th Chicago Section celebration of National Chemistry Week 2001 we returned on November 3 to the refurbished Adler Planetarium. An extensive and multifaceted program of demonstrations, poster contests, exhibits and lectures filled the newly available space for another exciting Chicago Chemistry Day. The almost 1100 attendees were involved in these activities organized by the Chicago Chemistry Day Committee and conducted by no less than 153 volunteers.

The demonstrations by high school chemistry teachers, which have been the mainstay of all past Chicago Chemistry Days were increased with 29 teachers performing with the help of 17 AP students from West Leyden and Downers Grove South High Schools. These demos comprised simple experiments that illuminated physical phenomenon such as the effect of vacuum on aerated substances such as marshmallows and the surface tension in drops of water augmented with an illustrative poster. In addition to the rounds of demonstrations performed throughout the day, several were rerun as a grand finale to cap off the day.

The efforts of undergraduate students from Roosevelt and Loyola Universities and University of Illinois Chicago further increased the assortment of demonstrations to view during the very busy six hours of showings. One dynamic display showed pulsating beads of mercury due to the redox reaction of oxidized surface of Hg with an iron nail. The Planetarium's large classroom was the over-crowded location for the contests and other "Hands-on Fun for Kids of All Ages". Chromatographic separations of dyes in felt tip pens on paper coffee filter and pH is pHun measurement of the pH/acidity of common and familiar items such as vinegar, lemon juice and household cleaners attracted, and more than filled, the room with students eager to do some hands-on chemistry.

On the artistic side, there was equal enthusiasm for Posters and Chemistry contest. The volunteers were almost overwhelmed by the response by so many kids. There were numerous very good posters and the contest winners accepted their prizes and took their posters home to grace refrigerators in the Maine Township.

The 14 exhibits from industry, academia and government labs and agencies dispersed in the new Milky Way Galaxy area and rivaled the spectacular view of the lakefront in intriguing the Chemistry Day visitors. There were also five presentations in the Lecture Hall that mirrored the diversity of exhibits with topics on food flavor, fuel cells, lead toxicity and light in the chemical laboratory. The fifth and roundup presentation by Helen Free on 'Chemistry, It's All Around Us All the Time' brought home that chemistry is truly ubiquitous and not restricted to the laboratory or even to Chemistry Day at the Planetarium.

It was a challenging but successful day for all involved and special thanks are due to the Planetarium's Michelle Nichols, Peggy Postregna, and Marge Marek for their help. The list of Speakers, Demonstrators, Volunteers, and the Committee are included below.

### Chemistry Day Speakers

Alanah Fitch  
Helen Free  
Sara Risch  
Arthur Schmidt  
Eugene Smotkin

Loyola University of Chicago  
Bayer Diagnostics  
Science by Design  
Northwestern University  
Illinois Institute of Technology

### Demonstrators — Chemistry Day 2001

Carl Anderson, Organizer  
Charlene Anderson, Organizer  
Michael Bachrodt  
Kendra Budzyn  
Kathy Connolly  
Brian Fortney  
Chris Gales  
Fernando Gomez  
Lisa Gorsuch  
Stephan Graham  
Gail Greagan  
Jackie Gridley  
Mike Heinz  
Rebecca Karrow  
Patti Kenton  
John Kmet

Rolling Meadows High School  
Maine South High School  
William Fremd High School  
Maine South High School  
Rolling Meadows High School  
Brown Deer High School  
Downers Grove South High School  
Rolling Meadows High School  
Rolling Meadows High School  
Cristo Rey Jesuit High School  
Downers Grove North High School  
Lake Zurich High School  
Glenbard South High School  
Maine West High School  
Naperville Central High School  
Leyden High School

(continued on page 6)

Marty Landorf  
Monika Langdon  
Bob Lewis  
Lee Marek  
Wally Pape  
Kira Redig  
Tom Redig  
Jane Russell  
Todd Schaap  
Nicole Sobotka  
Dan Solari  
Allan Stenmark  
Shari Vetter  
Dalia Zygas

Maine West High School  
Maine South High School  
Downers Grove High School  
Naperville North High School  
Loyola Academy  
Downers Grove North High School  
Downers Grove North High School  
East Leyden High School  
Rolling Meadows High School  
Downers Grove North High School  
Loyola Academy  
Oak Creek High School (WI)  
Naperville Central High School  
West Leyden High School

### High School AP Chemistry Helpers

#### West Leyden HS

Mike Falbo  
Phil Lev  
Stephen Karamyalil  
Tripiti Kurub  
Jim Miralgio  
Divyesh Morker  
Minesh Morker  
Mayor Patel  
Dan Szlaga

#### Downers Grove South HS

Nate Fredrickson  
Lisa Kim  
Jenny O'Brien  
Mike Okelman  
Shipra Sabharwal  
Jeff Szkodzinski  
Kristin Vollrath  
Jason Sonnefeldt

### Chemistry Day Undergraduate Helpers

#### Roosevelt University

Al Barrase  
John Damascus  
Reshma Desai  
Mary Durnwald  
Gandy Garcia  
Megan Jeffrey  
Christopher John  
Ivy Jones  
Shannon Klaus  
Vlada Korol  
Leticia Martinez  
Tim O'Rourke  
Awatif Soliman

#### Loyola University

Kara Borucki  
Hilary Buha  
Jennifer Hansen  
Kelly Loster  
Manulia Soriji  
Joyce Willig

#### UIC

Linu Abraham  
Jennifer Barber  
Aaron Brown  
Kensha Clark  
Steve Rooney

### Chicago Chemistry Day -Committee & Volunteers

Larry Berman  
Bob Canapary  
David Crumrine  
Lina Grigaitis  
Fran Kravitz  
Etta McKenna  
William Northup  
Seymour Patinkin  
Adele Rozek  
Larry Thielen  
Auste Vygantas  
Gregg Zaiya

Agnieszka Biscoff  
Charles Cannon  
Daria Darczak  
Frank Jarzembowski  
Tom Kucera  
Barbara Moriarty  
Gayle O'Neill  
Marsha Phillips  
Susan Shih  
Timothy Thomas  
Elzbieta Wartak

Angela Boerger  
Richard Cornell  
Herbert Golinkin  
Marilyn Kouba  
Avrom Litin  
Sharon Northup  
Michael Parrie  
Darryl Prater  
Claire Theis  
Fred Turner  
Vaughn Williams

### Exhibitors

#### AICHE

Alan Zagoria  
Joe Bonucci  
Melanie Blaczak

Steve Schade  
Cindy Blaczak  
Cindy Blomquist

#### Alpha Chi Sigma

Eric Gustafson  
Paul Rich

Megan Campbell  
Kasi Johnson

## CHICAGO SECTION ACS SPEAKERS FOR 2002

### Friday, February 22, 2002

Dr. A. Truman Schwarz  
Macalester College  
Saint Paul, MN

"Chemistry and its Teaching at the  
Turn of the Century: The Janus View"

### Friday, March 22, 2002

Public Affairs Meeting  
Topic is "Green Chemistry."  
Topical Group Speaker — Dr. William  
Nelson  
Illinois Waste Management and  
Research Center

After dinner speaker — Dr. Dennis  
Hjeresen Director, ACS Green  
Chemistry Institute

### Friday, April 19, 2002

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

"Science, Technology and US Foreign  
Policy"

### Friday, May 24, 2002

Gibbs Medalist To Be Elected by  
the Gibbs Jury  
Gibbs Award Address

### Friday, June 21, 2002

To Be Announced

## ATTENTION YOUNGER CHEMISTS

The Chicago Younger Chemists Committee (YCC) is hosting a brewery tour and happy hour next month. Meet us at RAM RESTAURANT & BREWERY in Schaumburg on February 27. The brewer will give us a tour starting at 6:30 p.m. Get a close up look at how beer is made and then enjoy some with us afterwards. Appetizers and refreshments will be provided by YCC. All "Younger Chemists" from industry and academia are invited — you are a Younger Chemist if you are under 35 or have been in your chemistry career less than ten years.

Please sign up for this event with the Section Office. Contact Eva Lopez at 773-268-4297 or evalopez@teianalytical.com. For more details or directions to RAM RESTAURANT & BREWERY (1901 McConnor Parkway, across from IKEA), go to the YCC page of the Chicago Section ACS website.

**Argonne National Labs**(continued from page 6)  
Walter McFall**BP**Neal Nowicki  
Kathy Huntley  
Francisco Lorenzo-Porras  
Gayle Chany  
Michael Martinez  
R. Vaidyanathan  
Tom WolffVictor Rios  
Brandon Webster  
Joanna Snider  
Cal Chany  
Jan Crawford  
Howard Yokelson  
Steve Marshall**Chicago Police Department**

Silvia Rapacz

**DEA**

Sandy Angelos

**Helene Curtis/Unilever**John Kocis  
Harold Bryant  
Michael Cabo  
Crystal PorteAurora Amobit  
Ella Budinski  
Diane Dabrowski  
Pablo Santarinata**IIT**

Eugene Smotkin

**Minority Affairs**

Darryl Prater

Katarina Prater

**US Customs**James Lukes  
Margot Chinn

Ann Miller

**YCC**Jen Horne  
Allison Aldridge

Al Schwartz

**Chicago Systemic Initiative/Student Science Fair**

Ethelene Hare

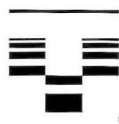
**Nalco**

Hua Zheng

Barbara Moriarty

**Acknowledgement**

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and profession of  
science and technology****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](http://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](mailto: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.

**SCIENTIFIC LITERATURE  
DATABASE**

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## NEW PUBLICATIONS

Curious about the non-technical skills that many employers increasingly are asking for in today's chemical workplace? Need some tips about writing a curriculum vitae?

You can download new publications on each of these subjects as well as gain access to an entire library of career-development publications and other resources at ACS' Department of Career Services website, [www.chemistry.org/careers](http://www.chemistry.org/careers).

Interested in sizing up an employment situation you may be considering? While at the above website, you may wish to use the Salary Comparator that allows members to evaluate their salaries with other members in their employment situation.

This new tool also allows members to examine any employment situation within the scope of the ACS surveys, including new graduates' starting salaries. The comparator is available only to ACS members. For further information, email: [careers@acs.org](mailto:careers@acs.org) or (voice) 1-800-227-5558.

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

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Women Chemists Committee  
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is pleased to

Call for Nominations  
for

### The WCC Regional Award for Contributions to Diversity

**Purpose:** To recognize individuals who have significantly stimulated or fostered diversity in the chemical enterprises.

**Nature:** The award consists of \$250, a plaque, and up to \$750 for travel expenses to the ACS Regional Meeting at which the award will be presented. Eight regional awards will be given in 2002.

**Establishment and Support:** The ACS Women Chemists Committee

**Rules of Eligibility:** Nominees for the award may come from any professional setting: academia, industry, government, or other independent facility. The award is intended to recognize significant accomplishments by an individual. The award will be given without regard to the age, gender or nationality of the recipient.

**Send nominations to:**

Women Chemists Committee  
American Chemical Society  
1155 16th Street NW  
Washington, DC 20036

For information regarding the award, contact Cheryl Brown, 800/227-5558 ext. 6123, or e-mail: [wcc@acs.org](mailto:wcc@acs.org)

**Deadline for receipt of nominations is February 1, 2002**

### 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.

SIZE	DIMENSIONS	RATE
Full Page	7.5" wide x 10" depth	\$600
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For general program info, visit: [www.chee.iit.edu](http://www.chee.iit.edu)



### INTERNATIONAL CONFERENCE ON SAFETY IN SCIENCE AND SCIENCE EDUCATION

The first International Conference on Safety in Science and Science Education will be held July 7-14, 2002 at Sacred Heart University in Fairfield, Connecticut. The conference will feature training seminars, short courses, invited and contributed papers, and keynote addresses. Participants from over 25 countries are expected to attend.

The conference is organized jointly by the Department of Chemistry at Sacred Heart University and The Laboratory of Safety Institute. The Department of Chemistry at Sacred Heart has programs in teacher enhancement, including laboratory safety for pre-college teachers. The Laboratory Safety Institute ([www.labsafety.org](http://www.labsafety.org)), located in Natick Massachusetts, is the only non-profit organization focused on safety in science education. Since 1978, the Institute has trained over 50,000 scientists and science educators.

For more information, contact Dr. Babu George ([georgeb@sacredheart.edu](mailto:georgeb@sacredheart.edu), (203) 371-7795) or Dr. James Kaufman ([labsafe@aol.com](mailto:labsafe@aol.com), (508) 647-1900).

**Women Chemists Committee  
of the  
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or Cheryl Brown, 800/227-5558 ext. 6123  
e-mail: [wcc@acs.org](mailto:wcc@acs.org)  
American Chemical Society  
1155 Sixteenth St. NW; Washington, DC 20036

**Deadline for receipt of applications for 2002 meetings:**

February 15, 2002 - Meetings between July 1 & December 31, 2002

**HOSPITALITY MENTORS**

The Hospitality Committee is looking for Chicago Section members who enjoy helping new members become acquainted with the Section. You will be paired up with a new member who would like to learn about the Chicago Section and have a person to join them at a monthly dinner meeting. It is always hard to feel comfortable when you are new and don't have anyone to talk at a monthly dinner meeting. Let's show others how warm the Chicago Section can be! If you are interested please contact Fran Kravitz at (630) 293-4122 or e-mail [FK1456@aol.com](mailto:FK1456@aol.com).

FRAN KAREN KRAVITZ  
HOSPITALITY COMMITTEE CHAIR-

**COLORFUL CHEMISTRY  
DEMOS**

The Science and Technology Interactive Center (SciTech) in Aurora has **free chemistry demonstrations** held for the general public on the second Saturday on each month in the auditorium.

SciTech is a hands-on museum for people of all ages (individuals, classes, and families) to experience science, mathematics and technology in a fun and interactive way. The museum also offers world-renowned topical traveling exhibitions, hosts science clubs, summer camps, and other educational programs.


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

**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.

**THE OFFICE OF LEGISLATIVE  
& GOVERNMENT AFFAIRS  
ANNOUNCES 2002 CONTACT  
CONGRESS WEEK  
FEBRUARY 16-22, 2002**

The Office of Legislative and Government Affairs (OLGA) will sponsor its annual "Contact Congress Week" in February 2002. OLGA encourages all local sections to invite a state or federal legislator to speak as part of the program at a local section meeting during the President's Day recess, February 16-22. Inviting a legislator to a meeting will provide an exceptional opportunity for your local section members to learn about the positions of your elected officials on research, science education, and environmental and energy issues. It is also an important opportunity to educate legislators on the issues that face ACS members and to build relationships with those who represent you. Several sections held successful, well-attended events in 2001. No cost is associated with the presentation. The Office of Legislative and Government Affairs will assist you in selecting and contacting an appropriate legislator, drafting an invitation letter, and promoting the event. If you already have your February 2002 program planned, we can work with you to find an alternative time. Please contact Ethan Castelo at (202) 452-8917 or [e\\_castelo@acs.org](mailto:e_castelo@acs.org) to involve your local section in the 2002 Contact Congress Week.



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**ANALYSIS FOR THE CHEMICAL ELEMENTS**

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## GRANTS

### Materials Research Science and Engineering Centers:

The National Science Foundation's Materials Research Science and Engineering Centers (MRSEC) program supports interdisciplinary, university-based group research and education in the area of materials science and engineering, condensed matter physics, solid state and materials chemistry, and related areas of science and engineering. An MRSEC encompasses one or more interdisciplinary research groups (IRGs). The IRGs involve several faculty and associated researchers with complementary background and expertise and address an area of research which requires interactive efforts among the participants. Individual MRSEC awards are expected to range in size from about \$0.8 million per year to \$5 million per year. Application deadline is Jan. 14, 2002. For details, visit <http://www.nsf.gov/mps/dmr/mrsec.htm>.

### Women's International Science Collaboration Program

The National Science Foundation's Women's International Science Collaboration Program provides grants of up to \$4,000 to individual U.S. women scientists who plan to establish new research partnerships with their colleagues in Central/Eastern Europe and the Newly Independent States of the former Soviet Union. The program is funded by the NSF Foundation and administered by the Program on Europe and Central Asia of the American Association for the Advancement of Science. U.S. scientists can spend up to four weeks in the partner country to develop a research program and design. Next deadline is Jan. 15, 2002. For more information, contact Karen Grill, AAAS, at 202-326-7027 or [kgrill@aaas.org](mailto:kgrill@aaas.org) or visit <http://www.aaas.org/international/eca/wisc.shtml>.

## GRANTS

Teach America!, a Gateway Foundation program, seeks to provide teachers with the skills and knowledge they need to enhance student learning through the effective use of technology. The program will offer \$7.6 million in online technology training to up to 75,000 teachers throughout a five-year period. Awards include online training subscriptions to schools, school districts, and other educational institutions. Grant recipients will have unlimited access, for 12 months, to more than 250 online instructor-led courses or self-paced tutorials. Courses range from Web publishing and word processing to exploring the Internet. Apply online at <http://www.gateway.com/about/coinfo/teachamerica/index.shtml>.

(continued from back page)

## CALENDAR

**April 19, 2002:** The Chicago Section American Chemical Society's general meeting talk will be "Science, Technology and US Foreign Policy" by Dr. Norman P. Neureiter, Science and Technology Adviser to the Secretary of State, Washington, D.C. For additional information call the Section Office at (847) 647-8405 or <http://membership.acs.org/C/Chicago>.

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

**May 24, 2002:** The Chicago Section American Chemical Society will celebrate the presentation of the Willard Gibbs Award at the Argonne Guest House, Argonne National Laboratory. Stay tuned for further information as the date approaches.

**June 2-4, 2002:** The Great Lakes Regional Meeting will be held in Minneapolis, MN. Stay tuned for further information as the date approaches.

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

## ADVERTISING INDEX

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CHICAGO SECTION, AMERICAN CHEMICAL SOCIETY  
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## CALENDAR

**January 26, 2002:** The next Continuing Education Seminar will be on Job Searching for Chemists given by Carol Vancura from the Human Resources center of MediChem Research Inc. The short course will be held at Loyola University, 6525 N. Sheridan Rd., Cudahy Science Building (with the green door), room 202 from 9:00 a.m. to 12:00 p.m. For further details or to register call the section office, 847-647-8405.

**January 29-30, 2002:** The 67th Annual Meeting of the Israel Chemical Society will take place at the Renaissance Hotel and Convention Center, Jerusalem, Israel. For further information, contact the secretariat at (972)-2-6520574 or [meeting@isas.co.il](mailto:meeting@isas.co.il).

**February 6, 2002:** The next Chicagoland Science and Technology Leadership Series Mini-Symposium will be at 7 p.m. Wednesday, Feb. 6, 2002, in Niles. The topic will be "Making News: Promoting Your Activities to a Wider Audience". For more information, contact Ellen Sullivan at TEI Analytical, 847-647-1345, ext. 803, [ellen@teianalytical.com](mailto:ellen@teianalytical.com); <http://www.teianalytical.com>.

**February 16, 2002:** Continuing Education short course on "Chemical Information on the Internet" will be held at Loyola University, 6525 N. Sheridan Rd., Cudahy Science Building, room 202 from 9:00 a.m. to 12:00 p.m.

**February 22, 2002:** The Chicago Section American Chemical Society's general meeting talk will be "Chemistry and its Teaching at the Turn of the Century: The Janus View" by Dr. A. Truman Schwarz, Macalester College, Saint Paul, MN. For additional information call the Section Office at (847) 647-8405 or <http://membership.acs.org/C/Chicago>.

**February 27, 2002:** The Chicago Younger Chemists Committee (YCC) is hosting a brewery tour and happy hour at RAM RESTAURANT & BREWERY, 1901 McConnor Parkway (across from IKEA), Schaumburg, IL. Please sign up for this event with the Section Office by contacting Eva Lopez at 773-268-4297 or [evalopez@teianalytical.com](mailto:evalopez@teianalytical.com). For more details or directions to the restaurant, go to the YCC page of the Chicago Section ACS website. Also see article in this issue.

**March 17-22, 2002:** Pittcon 2002 will be held in New Orleans. For further information, call 412-825-3220 or <http://www.pittcon.org>.

**March 22, 2002:** The Chicago Section American Chemical Society will have its Public Affairs meeting. The general meeting speaker will be Dr. Dennis Hjerensen, Director, ACS Green Chemistry Institute. For additional information call the Section Office at (847) 647-8405 or <http://membership.acs.org/C/Chicago>.

**March 23, 2002:** Continuing Education short course on "New Topics in NMR" will be held at Loyola University, 6525 N. Sheridan Rd., Cudahy Science Building, room 202 from 9:00 a.m. to 12:00 p.m.

**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](mailto:natlmtgs@acs.org).

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