

# theCHEMICALbulletin

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

DECEMBER • 2003

## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY JOINT MEETING WITH CHICAGO CHEMISTS CLUB and IOTA SIGMA PI HOLIDAY PARTY/MEETING

FRIDAY, DECEMBER 12, 2003

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

### DIRECTIONS TO THE MEETING

Take I-94 (Edens Expressway) to either Touhy Avenue East or Peterson Avenue East exit. These exits drop you off at Cicero Avenue. If you exit at Peterson Avenue, go 1/2 mile north on Cicero to Devon Avenue. If you exit at Touhy Avenue, go south on Cicero one mile to Devon Avenue. Go east on Devon Avenue just past Pulaski Avenue (about 1/2 block). The restaurant is on the south side of the street. **This year we will be in the Gina Room, which is next to the valet parking lot and the restaurant's main entrance.**

**PARKING:** Free valet parking available.

This is the Chicago Section ACS/Chicago Chemists Club Annual Holiday party/meeting. At this event, everyone is a chemist (either practicing or honorary)! Come join in the celebration with all your fellow chemists. So, in addition to our technical program, Santa will be bringing gifts! ENJOY!

**We are asking you to also bring a gift!!! Please bring some canned food or other non-perishable food item (in non-glass containers) that we, as the ACS, can donate to a charity for needy people in the Chicagoland area. Let's share our good fortune in the spirit of the season. THANK YOU!!**

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

Cash Bar Available with complimentary hors d'oeuvres

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

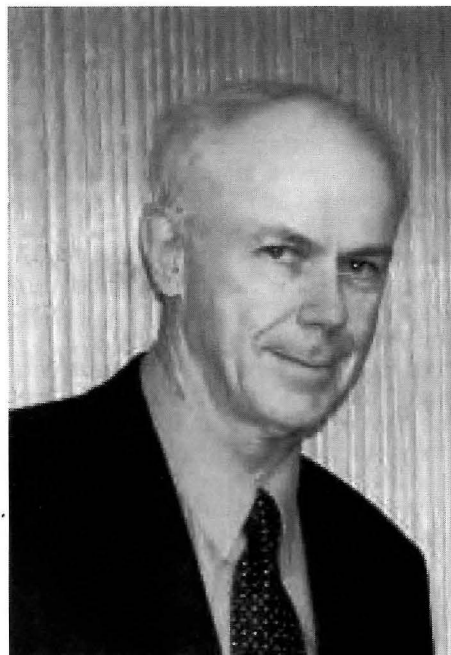
Dinner reservations are required. The restaurant requests a count earlier than usual because of all the parties they need to accommodate during this season. Please make your reservations by Tuesday, December 2 with the Section office via **phone** (847-647-8405), **fax** (847-647-8364), **email** ([chicagoacs@ameritech.net](mailto:chicagoacs@ameritech.net)), or **website** (<http://membership.acs.org/C/Chicago>).

**Holiday Menu:** Fresh Fruit Cup; Dinner Salad with choice of Italian or Creamy Garlic Dressing; choice of either Roast Tenderloin of Beef with Marsala Sauce, Broiled Salmon with Limone Sauce, or Eggplant Parmesan; Broccoli and Glazed Carrots; rolls and butter; Cheese Cake with Fresh Strawberry Sauce; beverage.

The cost to Section members who have paid their local section dues, members' families, and visiting ACS members is \$38.00; Cost to non-Section members is \$40.00. The cost to students and unemployed members is \$19.00. Seating will be available for those who wish to attend the meeting without dinner. Tables of 8 or 10 are

available and may be reserved at this time. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

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



**Dr. James O'Brien**, Southwest Missouri State University, Springfield, MO

**Title:** Famous Mad Hatters

**Abstract:** The origin of the phrase "Mad as a Hatter" is due to the incidence of odd behavior on the part of workers in the early felt hat industry. Their odd behavior, or "madness", was the result of mercury poisoning contracted on the job.

This presentation will discuss the recent mercury analyses done on the hair of Isaac Newton; the deterioration

### NOTICE TO ILLINOIS TEACHERS

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

(continued on page 2)

(continued from page 1)

of the great mind of Michael Faraday; the bizarre behavior of Boston Corbett, the man who shot John Wilkes Booth, the assassin of Abraham Lincoln; and the possibility that mercury poisoning affected the behavior of other famous people such as King Charles II of England, the author William Makepeace Thackeray, and a number of famous artists, such as Rubens, Renoir, Dufy, and Klee.

"Mad" women in history have been more difficult to locate. One eminent female whose health was affected by chemical exposure was Clare Boothe Luce. Her health problems while serving as U.S. Ambassador to Italy in the 1950's will be discussed.

**Biography:** James F. O'Brien was born in Philadelphia on July 4, many years ago. He received a B.S. in Chemistry from Villanova University and a Ph.D. in Chemistry from the University of Minnesota. Following postdoctoral work at the Los Alamos Scientific Laboratory in New Mexico, Dr. O'Brien joined the faculty at Southwest Missouri State University.

In 1992 Dr. O'Brien received the Southwest Missouri State Foundation Excellence in Teaching Award; in 1994 he received the Southwest Missouri State Foundation Excellence in Research Award; and in 1996 the University named him Distinguished Scholar. In 2001 he received the Governor of Missouri's Award for Teaching Excellence. In 2002 Southwest Missouri State named him Distinguished Professor. He then retired.

His recent research interests have centered on molecular orbital calculations of the properties of organometallic and inorganic species. He also devotes time to studying the History of Chemistry.

His leisure time interests in their current order of preference are: golf, bridge, Sherlock Holmes, Civil War history, and walking (formerly running). His wife Barbara is a Psychiatric Nurse Practitioner. His son Ted is a Ph.D. chemist in Indiana; his son Mike is a

## FREE T-SHIRTS

The Hospitality Committee raffles one T-shirt at each monthly dinner meeting. The shirt has Chicago spelled out using the periodic table. So come to a monthly meeting and maybe you'll win one!

**Congratulations to T-shirt winner, Joey Stringer (October meeting).**

FRAN KAREN KRAVITZ  
HOSPITALITY COMMITTEE CHAIR

## HOLIDAY PARTY


Get those fingers ready to make reservations for the annual Chicago Section, American Chemical Society holiday party on Friday, December 12, 2003 at Monastero's Ristorante.

This year the Hospitality committee has come up with a plan to make the holiday gift raffle more efficient. Prior to the meeting, gifts will be numbered randomly and placed on tables in the back of the dining room. Each attendee will draw a clip with a number on it when they register that evening for the meeting. Please attach that number to your name badge. Gifts will be handed out by volunteers throughout the evening by calling up groups of individuals having a series of numbers. Larger gifts such as dinner certificates or gift certificates will be announced separately throughout dinner. Meeting attendees are asked to claim their gift only during the time their numbers have been announced. A schedule will be handed out at the time of registration. Those individuals which forget to claim their gift will have another opportunity to claim them at the end of the evening. Individuals must present their numbered clip in order to pick up their gift. There will be no exchanges for anyone who is unhappy with their raffle gift. These gifts are only meant to be a token item. Also, door prizes of wine will only be handed out to those 21 or older. A substitute prize will be handed out to students under the age of 21. As always, please do not open your wine at the table.

FRAN KRAVITZ

## CHEMISTRY UNDERGRAD TRAVEL AWARD

The Chemistry Division of the Council on Undergraduate Research (CUR) encourages its members to nominate undergraduate students for a CUR chemistry travel award to present research results at the 2004 ACS spring national meeting in Anaheim, CA. Two awards of \$250 will be offered on the basis of scientific merit, research progress, and financial need. Preference will be given to those undergraduate students who have not made a previous presentation at a national scientific meeting. Funds from the award may be applied toward travel, accommodations, and meal expenses. The faculty research advisor must be an individual member of CUR (for membership information, see [www.cur.org](http://www.cur.org)). For deadline information and application details, go to [www.cur.org/chemistry.html](http://www.cur.org/chemistry.html).

  <b>Quality Results!</b>  <b>Rapid Turnaround!</b>  <b>Extensive Capabilities!</b>  <b>Qualified &amp; Experienced Scientists!</b>  <b>Competitive Prices!</b>  <b>CALL TODAY!</b>	<b>Analytical Services</b>
	<b>Lab Services</b>
	> Polymer Deformulation > Polymer Analysis > Method Development > Consulting > Expert Witness
	<b>HPLC Columns &amp; Accessories</b>
	> Reverse Phase > Normal Phase > SPE Cartridges > Fast Analysis Bullet Columns > Prep Columns > HPLC Accessories > Bulk Packings
	(508) 966-1301 <a href="http://www.jordiassoc.com">www.jordiassoc.com</a>

## In This Issue

### Features

- 1.....Holiday Dinner Meeting
- 2.....Chemistry Undergrad Travel Award
- 3.....Local Companies Support Scholarship Exam
- 3.....Section's Election Results
- 3.....Student Affiliates Invited to Present Research
- 4.....Chicago Section Committee Members 2002-2003
- 5.....Salutes to Excellence Honors Tom Kucera
- 7.....Food for Charity Collection
- 8.....Online Safety Course
- 8.....*And Gladly Teach*: Resource Book
- 8.....NU Biochemist Awarded MacArthur Fellowship
- 9.....Gifts Needed
- 9.....Local Companies Support Gibbs
- 9.....Jim Shoffner Named Metcalfe Chair
- 10...Patent Truths - Kid Stuff
- 11...Contact the Chair

### In Every Issue

- 1.....Notice to Illinois Teachers
- 2.....Free T-Shirts
- 3.....ChemShorts for Kids
- 6.....ALMA e-News
- 7.....Chair's Letter
- 11...Ad Index
- 12...Calendar

## "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.

### Food Wraps

Kids, did you ever wonder what the difference is between all those long, rectangular boxes of foils and wraps in your kitchen? This month we are going to have fun by making something tasty and then testing how best to keep it that way.

First, bake a batch of cookies with an adult partner. Make your favorite kind, especially considering that the holidays are just around the corner. Bake a third of them on a plain, ungreased cookie sheet, a third on a greased sheet, and the last third on a sheet that is lined with kitchen parchment paper. What do you notice when removing your cookies? Greasing a sheet or pan will make the surface slippery so that food won't stick (like one third of your batches probably did). Parchment acts the same way but has the added benefit of making cleanup easier. Why didn't the cookies stick to this paper? Why didn't the paper burn? This parchment paper is coated with silicone molecules, which makes it more slippery and heat-resistant than regular paper. Silicone molecules are polymers of  $\text{—Si—O—}$  groups (actually,  $\text{—Si(R}_2\text{)O—}$  groups).

Now place half of the cookies on wax paper to cool, and the other half on paper (from brown paper bags or paper plates). When they are cool, what do you notice? Has the wax melted a bit? Wax paper is a thin sheet of paper that is coated with paraffin wax. Paraffin wax is a white wax made up of straight-chain hydrocarbons that contain 26-30 carbon atoms per molecule. And how about the paper that was used to cool the cookies? Are there greasy spots? Such spots are from the melted fat molecules (oil, butter) in the cookie recipe. Last, store your cookies individually in different types of wraps and containers. Seal them in plastic wrap, ziploc bags, aluminum foil, wax paper, Tupperware, and paper lunch bags, for example. Every day for a few days in a row (or for as long as they last), test your cookies for freshness. Which method or methods work best? Why?

Some materials make better barriers than others against water molecules (which can make things soggy) and air molecules (especially oxygen,  $\text{O}_2$ ), which can make cookies stale. Think about how tight the bonding has to be between aluminum atoms, for example, to not let the tiny oxygen and water molecules pass through. Chemists use scientific words like "permeation", "diffusion", and "percolation" when quantifying such properties.

Written by KATHLEEN CARRADO

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

### AKZO-NOBEL, PHARMACIA, ROHM AND HAAS AND UOP SUPPORT 49TH SCHOLARSHIP EXAM

Chicago area chemistry impacted industries, in recognition of the critical role chemistry has in their businesses, gave generous support for the 49th Annual Scholarship Examination in Chemistry and Scholarship Program. Akzo-Nobel, Pharmacia, Rohm and Haas and UOP provided a total of \$6500.00. This recognition identifies students with high proficiency in chemistry and encourages them to seek careers in the chemical sciences. Attracting top students to the chemical sciences benefits employers of chemical scientists in industry, academia and government.

Scholarship winners are determined by the results of an exam administered by the Chicago Section ACS High School Education Committee. Each chemistry teacher in public and private schools in Chicago and surrounding suburbs may nominate two students to take the examination. Scholarships are funded by contributions from companies in chemical industry and individual members of the Chicago Section. Some scholarships are fully funded by and named for the contributing companies. Some companies choose to designate funds for high-performing students from a particular school or geographic region. This year sixty-nine students were nominated by their teachers to take the examination. The Examination results, the five awardees and the seventeen students receiving honorable mention together with their schools and teachers, were listed in The Chemical Bulletin, September 2003.

INARA BRUBAKER, CHAIR  
ENDOWMENT COMMITTEE

December, 2003 Vol. 90, No. 10.  
Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cherlyn Bradley, Editor, and Fran Kravitz; Avrom Litin, Publications 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.

### 2004 ELECTION RESULTS

The Chicago Section's ACS tells committee met on October 24, 2003 and the following members were elected as Section officers, directors, councilors, and alternate councilors. Thank you to all the candidates for participating, and congratulations to the winners!

**Chair-Elect:** Jack O'Neill  
**Vice-Chair:** Jennifer Horne  
**Secretary:** Mary Newburg  
**Treasurer:** Gayle O'Neill

**Directors:** Allison Aldridge  
Tom Cullen  
Herbert Golinken  
Inessa Gorelik  
Peter Lykos  
Christine Russell  
Robin Zavod

**Councilors:** Allison Aldridge  
David Crumrine  
Fran Karen Kravitz  
Claude Lucchesi  
Marsha Phillips  
Steve Sichak

**Alternate Councilors:** Inara Brubaker  
Mark Cesa  
Susan Shih  
Fred Turner  
Michael Welsh

MILT LEVENERG, CHAIR  
TELLERS COMMITTEE, 2003

### UNDERGRADUATES: COME AND COMMUNICATE ABOUT CHEMISTRY IN ANAHEIM!

The 227th ACS National Meeting will be held in Anaheim, CA, and Student Affiliates are invited to present their research and/or chapter posters during one of the poster sessions scheduled for Monday, March 29, 2004. In order to present a poster, the author must have at least a presentation title and his/her name published in the on-site abstract book for Anaheim. However, we do prefer a complete abstract-see guidelines in the website <http://www.chemistry.org> on submitting your abstract for the 227th ACS national meeting.



## CHICAGO SECTION COMMITTEE MEMBERS, 2002-2003

The many programs and services of your Section are provided by the volunteers of the various committees of the Section. Each year we acknowledge the committees and their membership. The following are the committees in the Chicago Section. Thanks to all of you who volunteered your time and talents during the 2002-2003 term.

### AWARDS

Eric Ryden, Chair

### BUDGET

Fran Kravitz, Budget Director

### BYLAWS

Sharon Northup, Chair  
Marilyn Kouba

### CHEMICAL BULLETIN

Cherlyn Bradley, Editor  
Fran Kravitz, Edit. Staff  
Avrom Litin, Pub.Bus. Mgr.  
CONTRIBUTORS

Allison Aldridge  
Cherlyn Bradley  
Charles Cannon  
Kathleen Carrado  
Wayne Collins  
Wade Freeman  
Greg Kharas  
Keith Kosteka  
Fran Kravitz  
Herb Golinkin  
Morton Hoffman  
Frank Jarzembowski  
Russ Johnson  
Ami LeFevre  
Zafra Lerman  
Margaret Stowell Levenberg  
Milt Levenberg  
Bob Lewis  
DeWayne Lieneman  
Eva Lopez  
Claude Lucchesi  
Peter Lykos  
Joe Matt  
Barb Moriarty  
Jack O'Neill  
Marsha Phillips  
Darryl Prater  
Bob Shone  
Susan Shih  
Jim Shoffner  
Steve Sichak  
Jonathan Taylor

Also:

Dee Beaton/Rider Dickerson  
Sandy Schick/Photo Specialties  
All our advertisers

### CHICAGO CHEMISTRY WEEK

Tom Kucera, Co-Chair  
David Crumrine, Co-Chair  
Larry Berman  
Danise Burke  
Richard Cornell  
Michael Heinz  
Russ Johnson  
Fran Kravitz  
Milt Levenberg  
Avrom Litin  
Peter Lykos  
Lee Marek  
Funmi Moka  
Seymour Patinkin  
Susan Shih  
Steve Sichak  
Fred Turner  
Gail Wilkening

### CHICAGO SCHOOL BOARD LIAISON

Nathaniel Gilham, Co-Chair  
Elizabeth Cozzi, Co-Chair

### CHICAGO SECTION WEB PAGE

Milt Levenberg, Chair  
Margaret Stowell Levenberg,  
Web liaison  
Contributions from numerous section members

### COLLEGE EDUCATION

Charles Cannon, Chair  
Allison Aldridge  
David Crumrine  
Michael Welsh  
Keith Kosteka  
Neng Ung

### COMPTROLLER

Herb Golinkin

### CONTINUING EDUCATION

Fred Turner, Chair  
Mark Cesa  
Jack O'Neill  
Seymour Patinkin

### DISTINGUISHED SERVICE AWARD

Fran Karen Kravitz, Chair  
Allison Aldridge  
Sanford Angelos  
Cherlyn Bradley  
Herb Golinkin  
Russ Johnson  
Keith Kosteka  
Marilyn Kouba  
Milt Levenberg  
Sharon Northup  
Gayle O'Neill  
Steve Sichak  
Fred Turner

### ELEMENTARY EDUCATION

Ami LeFevre, Co-Chair  
Ann Levinson, Co-Chair  
Kathleen Carrado

### EMPLOYMENT

Bob Shone, Chair

### ENDOWMENT

Inara Brubaker, Chair  
Gail Wilkening

### ENVIRONMENTAL & LAB SAFETY

Larry Berman, Co-Chair  
Steve Sichak, Co-Chair  
Rudy Bernath

### GIBBS ARRANGEMENTS

Margaret Stowell Levenberg, Chair  
Richard Cornell  
David Crumrine  
Frank Jarzembowski  
Milt Levenberg

### GREAT LAKES REGIONAL MTG

Marilyn Kouba, Delegate  
Kenneth Olsen, Delegate

### HIGH SCHOOL EDUCATION

Ami LeFevre, Co-Chair  
Ann Levinson, Co-Chair  
Mike Heinz, Webmaster  
Elizabeth Watkins, CPDU Coord.  
Bernoli Baello  
David Crumrine  
Najwa Dajani  
Judy Ditkowsky  
Dottie Fugiel  
Holly Gannon  
Daniel Graham  
Kip Hendren  
David Kanis  
Shannon Kelly  
Marty Landorf

### HOSPITALITY

Fran Kravitz - Chair  
Cherlyn Bradley  
Connie Buenvenida  
Danise Burke  
Adrienne Golinkin  
Jennifer Horne  
Barbara Moriarty  
Mary Kay Perry  
Adele Rozek  
Susan Shih

### HOUSE

Frank Jarzembowski, Chair  
Allison Aldridge  
Larry Berman  
Jerry Brozek  
Danise Burke  
Mark Cesa  
Richard Cornell  
Dave Crumrine  
Mark Cunningham  
Mary Fiebig  
Adrienne Golinkin  
Herb Golinkin  
Inessa Gorelik  
Russ Johnson

(continued on page 5)



*(continued from page 4)*

Keith Kostecka  
 Marilyn Kouba  
 Fran Kravitz  
 Milt Levenberg  
 Avrom Litin  
 Mary Newberg  
 Sharon Northup  
 Gayle O'Neill  
 Seymour Patinkin  
 Mary Kay Perry  
 Marsha Anne Phillips  
 Darryl Prater  
 Eric Ryden  
 Susan Shih  
 Cornelia Shoffner  
 Jim Shoffner  
 Steve Sichak  
 Fred Turner  
 John Walker  
 Gail Wilkening

**LONG-RANGE PLANNING**

Tom Kucera, Chair  
 Larry Berman  
 Cherlyn Bradley  
 Mark Cesa  
 Herb Golinkin  
 Frank Jarzembowski  
 Russ Johnson  
 Fran Kravitz  
 Margaret Stowell Levenberg  
 Milt Levenberg  
 Barb Moriarty  
 Gayle O'Neill  
 Seymour Patinkin  
 Marsha Phillips  
 Darryl Prater  
 Susan Shih  
 Jim Shoffner  
 Steve Sichak  
 Fred Turner

**MEMBERSHIP AFFAIRS**

Allison Aldridge, Chair  
 Claudia Davila  
 David Gavle  
 Douglas Mawhinney  
 Tomasa Ramos

**MIDDLE SCHOOL/JR.HIGH EDUC.**

Marsha Anne Phillips, Chair  
 Beverly Dawkins  
 Carmen Guzman

**MINORITY AFFAIRS**

Darryl Prater, Chair

**NATIONAL AFFAIRS**

Herb Golinkin, Chair  
**COUNCILORS:**  
 Roy Bible  
 Cherlyn Bradley  
 Charles Cannon  
 Dave Crumine  
 Nat Gilham  
 Fran Kravitz  
 Tom Kucera

Claude Lucchesi  
 Russ Johnson  
 Barb Moriarty  
 Seymour Patinkin  
 Marsha Phillips  
 Steve Sichak  
**ALTERNATE COUNCILORS:**  
 Allison Aldridge  
 Sandy Angelos  
 Connie Buenvenida  
 Jennifer Horne  
 Marilyn Kouba  
 Angela Kowalski  
 Margaret Stowell Levenberg  
 Sharon Northup  
 Gayle O'Neill  
 Darryl Prater  
 Guy Rosenthal  
 Adele Rozek  
 Fred Turner

**NOMINATING**

Inessa Gorelik, Chair  
 Cherlyn Bradley  
 Ken Fivizzani  
 Jennifer Horne  
 Fran Kravitz  
 Keith Kostecka  
 Margaret Stowell Levenberg  
 Milt Levenberg  
 Peter Lykos  
 Susan Shih

**OFFICE AFFAIRS**

Fran Kravitz, Chair  
 Gail Wilkening, Office Manager

**POLICY**

Herb Golinkin, Chair  
 Jennifer Horne  
 Keith Kostecka  
 Milt Levenberg  
 Barb Moriarty  
 Susan Shih

**PROFESSIONAL RELATIONS**

Seymour Patinkin, Chair

**PROJECT SEED**

Cherlyn Bradley, Co-Chair  
 Charles Cannon, Co-Chair  
 Greg Kharas  
 Kenneth Neet  
 Marsha Phillips  
 Hector Rasgado-Flores

**PROGRAM**

Jack O'Neill, Co-Chair  
 Keith Kostecka, Co-Chair

**PUBLIC AFFAIRS**

Barb Moriarty, Co-Chair  
 Jim Shoffner, Co-Chair  
 Larry Berman  
 Roger Ginger  
 Anne Kemp  
 Angela Kowalski  
 Fran Kravitz  
 Mary Kay Perry

Marsha Anne Phillips  
 Catherine Woytowicz

**PUBLIC RELATIONS**

Russell Johnson (Chair)  
 Larry Berman  
 Fran Kravitz  
 Milt Levenberg  
 Marsha Phillips  
 Trisha Wang  
 Sharon Worthy (National Office Contact)

**SECTION TRUSTEES**

Tom Kucera  
 Claude Lucchesi  
 Art Weston

**TELLERS**

Cherlyn Bradley  
 Fran Kravitz  
 Marilyn Kouba  
 Milt Levenberg  
 Avrom Litin  
 Fred Turner

**TOPICAL GROUP**

Mark Cesa, Chair  
**CONTRIBUTORS:**  
 Margaret Stowell Levenberg  
 Susan Shih  
 Fred Turner

**YOUNGER CHEMISTS**

Jennifer Horne, Chair  
 Tom Cullen  
 Kimberly Jackson  
 Robert Tylicki  
 Bret Vastano

**SALUTES TO EXCELLENCE**

The Salutes to Excellence Program is run by the National ACS Office of Community Affairs and recognizes contributions to daily life by individual chemists, organizations or even a particular product. The Section Board at its October meeting nominated **Tom Kucera** as a recipient of this award. The award is in recognition of his shepherding of Chemistry Day here in Chicago from its inception fifteen years ago. Tom's efforts to spread the word about chemistry to the general public and to children in particular have been outstanding. The presentation of the award will be at the Holiday Party meeting on December 12. Please plan to join us in thanking Tom for his contributions.

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

# Have a Happy and Safe Holiday Season

## ALMA E-NEWS

### Ergonomics Program Standard

The new OSHA Ergonomics Program Standard (29 CFR 1910.900) went into effect in 2001. Under this standard, if an employee reports an ergonomic injury, the employer must assess the employee's job to determine if it has risk factors such as repetition, awkward posture, force, vibration, or contact stress. If these risk factors are found, the employer must establish an ergonomics program for that job. The program must contain the following elements: hazard information and reporting, management leadership and employee participation, job hazard analysis and control, training, ergonomics management, and program evaluation.

The standard provides the employer with several options for evaluating and controlling risk factors for jobs covered by the ergonomics program, and provides objective criteria for identifying musculoskeletal disorder hazards in those jobs. OSHA estimates that the final standard will prevent about 4.6 million work-related musculoskeletal disorders over the next 7 years, have annual benefits of approximately \$9.1 billion, and impose annual compliance costs of \$4.5 billion on employers. The standard is activated for a company when an ergonomic injury occurs; since these injuries account for about 34% of all reported injuries and illnesses, this standard is likely to affect almost all of us.

Past ALMA (Analytical Laboratory Managers Association) e-News editions are available at the website <http://www.labmanagers.org/>.

If you have any comments, cost saving suggestions, opinions, etc. let me hear from you.

WAYNE COLLINS  
[wayne.collins@bpsolvaype.com](mailto:wayne.collins@bpsolvaype.com)

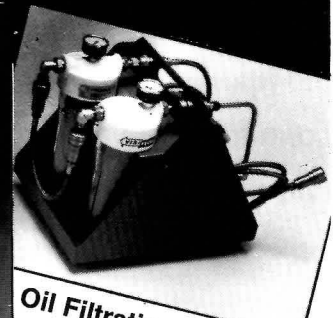
## Meet the Protectors of Vacuum Pumps, Systems and the Environment!



Oil Mist Eliminators



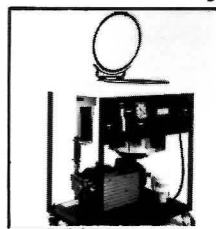
Vacuum Inlet Traps



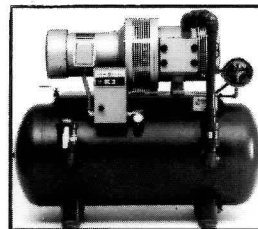
Oil Filtration Systems

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

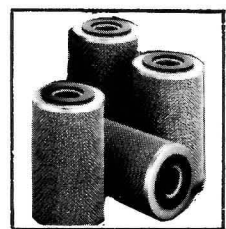
### Other Quality Vacuum Products



Vacuum Degassing Chambers



Central Source Vacuum System



Filters

**FOR MORE INFORMATION ON THESE AND OTHER FINE VACUUM PRODUCTS CONTACT**



**PRODUCTS**

A DIVISION OF MASS-VAC, INC.

247 RANGEWAY ROAD, P.O. BOX 359 NO. BILLERICA, MA 01862-0359  
TEL (978) 667-2393 FAX (978) 671-0014 E-mail [sales@massvac.com](mailto:sales@massvac.com)

## CHAIR'S LETTER

### Happy Holidays!

Happy Holidays to you all! I hope that you are enjoying this season of preparation and celebration as we approach the end of 2003. My term as your Chair is also approaching its end so I thought that I would touch on a few of the activities and achievements that have occurred over the past eighteen months. First, let me thank you all for allowing me the opportunity to serve you — it has been an exciting, enjoyable and challenging time. I could not have done it without the help of our Board and the many volunteers who have given their time so freely.

With the start of my term, we also instituted a change in our office. We hired an employee to run the office and have it open thirty hours a week. No longer does anyone have to leave a message and wait for a response. Any needed information from the files is now readily available as are answers to questions or at least direction to someone who can help.

One of the first highlights of my term was the dedication of Alice Hamilton and her work at Hull House as a National Historic Chemical Landmark last September. Many groups, including the Section, worked toward this goal. The following month, and again this past October, we participated in the Basolo Award celebration at Northwestern University honoring Stephen Lipard and then Daryle Busch. And in November, the Stieglitz Lecture was given by Patrick Gruber. Honoring our fellow chemists for their contributions was a wonderful way to start.

The Section held two successful Chemistry Day programs at University of Illinois Chicago the past two Octobers. With demonstrations, hands-on activities, contests, presentations and exhibitors, there was something for every attendee to enjoy. All of this was made possible by volunteers: teachers, industrial chemists, students and many others. At the meeting this month, Tom Kucera will receive a Salutes to Excellence award in recognition of his work over the years for Chemistry Day.

Speaking of teachers, our very active High School Education committee has held workshops for them each fall. They have worked to prepare students for the Chemistry Olympiad exam which is given every spring. This year, two of our students were among the twenty from the entire country invited to participate in the National Olympiad training camp; one of them, Benjamin Kaduk,

made the four-person National team and participated in the International Chemistry Olympiad where he won a bronze medal.

In addition to the Olympiad exam, the Section holds a scholarship exam every spring for high school students going on to college. This year seven students received a total of \$13,950 toward their further education.

My most satisfying moment occurred last fall when I had the pleasure of calling John Brauman to notify him that he was the 2003 awardee for the Gibbs medal. This internationally recognized award is given annually by the Chicago Section to an eminent chemist whose work has enriched our daily lives.

During this past summer, a total of four students participated in Project SEED, working in a research setting as high school students. Project SEED has been an ongoing success in the Chicago Section and if your organization would like to participate in it, please notify the office.

The Job Club has been very active this year. In addition, the online Jobs Discussion Group has had many postings.

Late last spring, the Section hosted the 35th Great Lakes Regional Meeting of the ACS. The local organizational committee met often over the year preceding the meeting held at Loyola University. The hours of planning led to a well-organized and successful time for all involved.

Our Section was a finalist in three categories for ChemLuminary awards for activities in 2002. These were Most Innovative New Activity, Local Section Government Affairs and Local Section Minority Affairs. We won the award for our outstanding Minority Affairs activities at the National meeting in New York this September.

As of this writing, an informational and organizational meeting for a Section Women's Chemists Committee has been arranged. For more information on this committee, check the web site or send me an email.

Our other Section committees have also been active in many different areas, too many to put in this column. The 2003 Annual Report should be up on the web site in late February with additional information on the year's activities. All of our volunteers deserve many thanks for the time and talent they devote to serving the members. If you know any of the volunteers listed in this issue, please thank them personally.

In closing, let me wish you all a joyous holiday season and a Happy New Year!

See you at a meeting!  
SUSAN SHIH

## SAINT ♦ XAVIER ♦ UNIVERSITY

3700 West 103<sup>rd</sup> Street

Chicago, IL. 60655

(773) 298-3050

Saint Xavier University offers a **B.S. in Chemistry** with tracks in Chemistry and Biochemistry.

### 2004 Spring Semester Courses

January 12 — May 7

Chem 112 **General Chemistry II** [4 s.h. cr]

Lec M W F 1:00-1:50pm

Lab T 9:30am-12:30pm & F 2:00-2:50pm

Or T 2:00-4:50pm & W 2:00-2:50pm

Chem 252 **Organic Chemistry II** [3 s.h. lec/1 s.h. lab]

Lec M W 1:00-2:50pm

Lab TH 9:30am-1:20pm or TH 2:30-6:20pm

Chem 304 **Synthesis & Characterization** [2 s.h.]

Lab W 5:00-9:00pm

Chem 305 **Advanced Inorganic Chemistry** [3 s.h.]

Lec M 4:00-5:50pm & W 4:00-4:50pm

Chem 332 **Physical Chemistry II** [4 s.h. cr]

Lec M 6:00-9:00pm

Lab TH 6:00-8:50pm

The following courses are Allied Health Science oriented

Chem 107 **Principles of Inorganic Chemistry** [4 s.h.]

Lec M W F 1:00-1:50pm

Lab F 2:00-3:50pm

Chem 108 **Principles of Organic & Biochemistry** [4 s.h.]

Day Lec M W 1:00-2:50pm

Day Lab T 9:00-10:50am or T 12:30-2:20pm

Eve Lec/Lab M W 6:00-8:50pm

For additional information about the courses, contact:

Dr. Frances Crean at 773-298-3517 or [fcrean@sxu.edu](mailto:fcrean@sxu.edu)

Updated schedule: <https://claws.sxu.edu> and click on

Search for Classes

## FOOD FOR CHARITY

We will be collecting canned goods for charity at the December Holiday Party. Please bring at least one can of food to donate when you come. Thanks!

## Toxicology Consulting

**Medical Devices  
Pharmaceuticals  
Biologicals  
Risk Assessments**

**Product Development  
FDA Registration  
Quality Assurance  
Regulatory Compliance**

## Northup RTS

Sharon J. Northup, PhD, DABT

783 Ridge Road

Highland Park, IL 60035

Ph: 847-579-0049 Fax: 847-579-0052

[Northuprts@aol.com](mailto:Northuprts@aol.com)  
[www.toxconsultants.com](http://www.toxconsultants.com)



## ACS 2004 CHEMISTRY WORKSHOPS

Have you been trying or considering an activity-based, student-centered approach to teaching your general chemistry course? The new textbook, *Chemistry* (a project of the American Chemical Society), is designed to support and reinforce this approach. The textbook is part of a new initiative to rethink and rework the general chemistry course that too many students perceive as a barrier, rather than a pathway to their future. *Chemistry* includes traditional chemistry concepts in a non-traditional order, using pedagogy built on active learning and group interactions. The concepts and principles in *Chemistry* are developed as often as possible by the analysis of data obtained in classroom activities. Because the approach requires more effort on the part of both students and instructors and what we are trying to accomplish may be unfamiliar, the ACS is sponsoring workshops to help prospective users develop a better understanding of the content and pedagogy of this new textbook and how it has worked in classrooms.

There will be a half-day workshop on March 27, 2004 preceding the ACS Meeting in Anaheim, CA, and a one-and-one-half-day workshop July 16 — 17, 2004 preceding the Biennial Conference on Chemical Education in Ames, IA. For more information on applying for these workshops and/or obtaining a draft copy of the textbook, contact Marta Gmurczyk ([m\\_gmurczyk@acs.org](mailto:m_gmurczyk@acs.org)).

## STARTING WITH SAFETY AVAILABLE ONLINE

The highly popular ACS Video Course, *Starting with Safety*, has been adapted for delivery via the Internet. The Internet version includes all of the materials from the original Video Course, including the video scenes and the Teacher's Guide. As an added bonus, the complete ACS Video Course, *Seeing the Light—Eye and Face Protection*, is also included in this ACS Internet Course. Now you and your students can access this valuable training program from any computer connected to the Internet at any time—day or night. It is the ideal complement to a standard high school or introductory college chemistry curriculum that is taught by an experienced chemistry teacher for introductory laboratory safety training. Visit the ACS Virtual Campus homepage at <http://vcampus.com/acs>.

## AND GLADLY TEACH: A RESOURCE BOOK FOR CHEMISTS CONSIDERING ACADEMIC CAREERS

The ACS Office of Graduate Education and the Department of Career Services have recently published an essential read for anyone considering a career in academia. This 66-page booklet covers all aspects of a career in higher education, addressing the decision to pursue an academic career, preparation for an academic career, the search for an academic position, and keeping an academic appointment.

Specific topics include the nature of an academic position in various types of institutions, choosing between a postdoctoral position and a temporary teaching job, preparing a curriculum vitae and a statement of teaching philosophy, writing research proposals, campus visits, weighing competing job offers, and balancing time demands in working toward tenure. Differences among various institutions are also addressed. The booklet concludes with an extensive bibliography of printed and electronic sources. Interspersed within the chapters are statements from eight recent Ph.D.s, describing their trajectories toward academic careers.

Single copies are available upon request from the ACS Office of Graduate Education at [graded@acs.org](mailto:graded@acs.org), as long as supplies last. The publication is also available as a PDF file on the new ACS *Preparing Future faculty* (PFF) web site <http://www.chemistry.org/education/pff.html>

## REGIONAL MEETINGS FOR 2004 IN PROGRESS

The 2004 Regional Meetings committees are gearing up for a busy spring season. The call for papers and online abstract submittal will begin shortly after the new year. All abstracts accepted for regional meetings will become part of the CAS databases, just as those for ACS national meetings.

The spring 2004 meetings include the Central Regional Meeting, June 2 - 5, Indianapolis, Indiana; and the joint Rocky Mountain/Northwest meeting, June 6 — 9, in Logan, Utah. Visit the ACS Office of Regional Meetings website to link with all the 2004 meetings for more details at [www.chemistry.org/meetings/regional/](http://www.chemistry.org/meetings/regional/). Some very exciting programming has been planned; so plan on being part of it.

## 2004 DIRECTORY OF EXPERIENCE OPPORTUNITIES

Puzzled about where to find student work experiences in the chemical sciences? Then log on to the *2004 Directory of Experience Opportunities*. There you will find more than 55 organizations that offer hundreds of internship, co-op, fellowship, undergraduate research, and summer work positions for students in the chemical sciences.

Printed copies can be purchased for \$10 each by calling 1-800-227-5558.

## BIOCHEMIST RECEIVES MACARTHUR FELLOWSHIP

Northwestern University biochemist **Amy C. Rosenzweig** has been awarded a MacArthur Fellowship by the John D. and Catherine T. MacArthur Foundation. The young researcher and 23 other MacArthur Fellows will receive a five-year "no strings attached" fellowship worth \$500,000. Rosenzweig is an expert in the structure and biochemistry of metalloproteins, specialized proteins that are essential to the healthy functioning of all cells in the human body. For more information, go to [http://www.northwestern.edu/univ-relations/media\\_relations/releases/2003\\_10/rosenzweig.html](http://www.northwestern.edu/univ-relations/media_relations/releases/2003_10/rosenzweig.html)

## Hands-On HPLC, GC & Chemstation Courses

Permanent Chicago Facility



Preferred Training Partner of  
ACS and Agilent



Highest Rated Instructors  
Dr. Lee Polite  
Dr. Harold McNair



Visit Our Website for  
Monthly Course Schedules

 Analytical Laboratories, Inc.  
Training Institute, Inc.

[www.ChromatographyTraining.com](http://www.ChromatographyTraining.com)  
(312) 243-2153

## NOMINATIONS BEING ACCEPTED FOR PRESTIGIOUS GREEN CHEMISTRY AWARDS

The U.S. Environmental Protection Agency is now accepting nominations for the 2004 Presidential Green Chemistry Challenge Awards. These prestigious Presidential rank awards recognize innovative chemical technologies that incorporate green chemistry into chemical design, manufacture, and use.

Green chemistry is the use of chemistry to prevent pollution. Nominated technologies should reduce or eliminate the use or generation of hazardous substances from a chemical product or process. Any individual, group, or organization, both nonprofit and for profit, including academia, government, and industry, may nominate a green chemistry technology for these awards. Self-nominations are welcome and expected.

Typically, five awards are given each year: one to an academic researcher, one to a small business, and the rest in specific areas of green chemistry. A nominated technology must have reached a significant milestone within the past five years in the United States. **Nominations must be postmarked by December 31 to be eligible for the 2004 awards**, which will be presented at the National Academy of Sciences in Washington, DC on June 28, 2004.

For more information, visit <http://www.epa.gov/greenchemistry/howto.html> or contact Richard Engler of the U.S. Environmental Protection Agency at [engler.richard@epa.gov](mailto:engler.richard@epa.gov) or 202-564-8740.

## GIFTS NEEDED

The Hospitality committee is asking all companies in the area and individuals employed by area companies to donate either cash or promotional items with their company name on it for the annual holiday party. This event has become one of the section's largest dinner meetings. Those who donate will be listed on announcement cards on the table and in the Chemical Bulletin. The committee will be happy to pick up items at your convenience by calling the office at (847) 647-8405 or they may be sent to the section office at: 7173 N. Austin Avenue, Niles, IL 60714.

So please take the time and call the section office with your donation. It is a great way to advertise your company.

FRAN KRAVITZ

## SCI AND BAXTER GIVE TO SUPPORT 2003 GIBBS MEDAL

SCI and Baxter gave to support the 2003 Willard Gibbs Medal. Their generosity provided \$800.00. The Willard Gibbs Medal Award is for significant contributions to the field of chemistry. This year's recipient was Professor John I. Brauman, the J.G. Jackson-C.J. Wood Professor of Chemistry at Stanford University, who received the award for his pioneering work on the dynamics of the reactions of ions in the gas phase. Professor Brauman's research is directed towards understanding how molecules react and the factors that determine the rates and products of chemical reactions. The principal areas of research involve the spectroscopy, photochemistry, reaction dynamics, and reaction mechanisms of ions in the gas phase.

Founded in 1910 by past Chicago Section ACS Chair William A. Converse, the award is named for Professor Josiah Gibbs, the father of the science of physical chemistry. The purpose of the award is to publicly recognize outstanding research chemists who have made significant contributions to their fields of chemistry and whose work has made possible scientific developments that have contributed to the welfare of mankind. A national jury of eminent chemists from different chemical specialties selects medalists. Next to the Nobel Prize, the Gibbs Medal is considered the highest award a chemist can achieve. Many Gibbs Medalists have also received the Nobel Prize.

INARA BRUBAKER, CHAIR  
ENDOWMENT COMMITTEE

## WOMEN CHEMISTS COMMITTEE

The Women Chemists Committee of the American Chemical Society is pleased to call for applications for Travel Awards for 2004. These awards are for post-doctoral, graduate, and undergraduate women to make their first research presentation at a scientific meeting.

The awards are sponsored by Eli Lilly & Company

For more information and an application form, contact Cheryl Brown, 800/227-5558, ext. 6123; <http://membership.acs.org/W/WCC> or e-mail: [wcc@acs.org](mailto:wcc@acs.org).

Deadline for receipt of applications for 2004 meetings: February 15, 2004 for meetings between July 1 and December 31, 2004.


## SHOFFNER RECEIVES HONOR

Dr. James P. Shoffner was named the 2003 Ralph H. Metcalfe, Sr. Chair holder at Marquette University in April 2003. He was recognized at a reception following a three-day visit at the university where he lectured on "A Multifaceted Life in Chemistry: Research, Education and the American Chemical Society."

The Ralph H. Metcalfe, Sr. Chair provides the opportunity to bring to the campus prominent faculty, scholars and professionals from cultural groups that have been historically underrepresented in the American professorate to highlight their contributions to their field. Established in 1981, the Chair is available to scholars in liberal studies and professional studies.

Jim has been a mentor to many young people in the field of science over the years. He was instrumental in the development of the Project SEED program, an ACS program designed to encourage economically disadvantaged high school students to pursue career opportunities in the chemical sciences. Following his retirement from UOP LLC, Jim became, and is currently, an adjunct professor at Columbia College.

Congratulations Jim!



## DESERT ANALYTICS

LABORATORY




- CHNOSP Halogens
- Metals by AA / ICP
- Ion Chromatography
- Trace Analysis
- Coal/Petroleum

*Fast, Reliable Service*

**No Charge for Phone/Fax Results**

P.O. Box 41838      245 S. Plumer, #24  
Tucson, AZ 85717      Tucson, AZ 85719  
Fax 520-623-9218      Phone 520-623-3381

Web: [desertanalytics.com](http://desertanalytics.com)  
E-mail: [thelab@desertanalytics.com](mailto:thelab@desertanalytics.com)

We Accept:   

**ANALYSIS FOR THE CHEMICAL ELEMENTS**

## PATENT TRUTHS - KID STUFF

Editor's Note: The following article is reprinted from ACS's CHAL (Chemistry and the Law) *Newsletter*, Vol. 19, No.1 with the permission of CHAL and the article's author, Howard Peters. Some of the websites have been updated by the editor since the last printing of this article by CHAL.

--Cherlyn Bradley

I have found some great web sites for the kid in all of us. Some of the information below is summarized from these sites.

See <http://inventors.about.com/library/inventors/bltoy.htm>

1. MONOPOLY® the classic board game was copyrighted in 1934 and patented as U.S. No. 2,026,082, on December 31, 1935 by Charles B. Darrow of Germantown, Pennsylvania. He had already been turned down by Parker Brothers. The street names and other places are taken from sites in Atlanta City, New Jersey — the familiar popular family beach resort. So in the middle of the Great Depression, he had 5,000 games assembled — by hand. They sold out quickly at Wanamaker's Department Store in Philadelphia. Darrow couldn't keep up with the demand so he went back to Parker Brothers and the rest is history. Over 200 million games have been sold worldwide. See <http://www.monopoly.com/pl/page.history/dn/default.cfm>

2. LINCOLN LOGS® were invented by John Lloyd Wright in 1916. Wright was the son of the famous architect, Frank Lloyd Wright, and claimed he was inspired by the interlocking foundation of the Imperial Hotel (the earthquake proof building) in Tokyo, Japan. (The day the Imperial Hotel opened in 1923, the massive Tokyo earthquake and fire destroyed all buildings for miles. But the hotel survived intact and operating.) By 1975, more than a million sets of LINCOLN LOGS® were being sold annually. See <http://www.ideafinder.com/history/inventions/lincolnlogs.htm>

3. The modern plastic FRISBIE® was invented by Walter Morrison (U.S. No. 3,350,67. The Frisbie Baking Company of Bridgeport, CT sold pies to local New England colleges including Yale University. The metal pie tins were sailed by Yale students.

Students would yell "Frisbie" when someone was about to be hit by the sailing metal tin (like "fore" in golf). The plastic Frisbie® was popularized by Wham-O of Southern California. Morrison received more than \$1,000,000 in royalties from two USC graduates, Rich Knerr and Spud Malin, the founders of Wham-O. See <http://www.airfairways.com/history.htm>

4. The modern HULA HOOP® was really not protected by patent and sales were subject to cut-throat competition. Research chemists Paul Hogan and Robert Banks of Phillips Petroleum in Oklahoma invented MARIEX® plastic, a blend of crystallized polypropylene and high density polyethylene (HDPE), U.S. Patent 2,825,721 (see National Inventors Hall of Fame at [www.invent.org](http://www.invent.org)). Twenty million hula hoops were sold by Wham-O in 6 months in 1958 for \$1.98. It was a great use for this new polymer. See <http://inventors.about.com/library/inventors/blhulahoop.htm>

5. SILLY PUTTY® was invented by James Wright at GE's New Haven, CT labs. Boric acid and silicone oil produced a novel goo that bounced further than rubber. But no one could find a practical use for this unusual product. In 1949 unemployed advertising man Peter Hodgson saw "nutty putty" at a party. He borrowed \$147, bought the production rights from GE and produced the elastomer. It was packaged in plastic eggs and sold just before Easter. It was an instant hit first with adults and later with kids. When Hodgson died in 1976, he left an estate of over \$140 million. See [http://sillyputty.com/history\\_101/timeline/timeline.htm](http://sillyputty.com/history_101/timeline/timeline.htm).

6. PLAY-DOH® was invented by Joseph and Noah W. McVicker in 1956 and they received U.S. Patent 3,167,440 issued in 1968. It really is based on a well know wallpaper cleaner formulations used in the East to remove residual winter coal and fuel dust. The similarity to modeling clay without toxicity made for a great toy. Joe McVicker became a millionaire before his 27th birthday. See <http://inventors.about.com/library/inventors/blplaydoh.htm>

7. BARBIE® was created by Ruth Handler in 1957. She and her husband Elliott, a Stanford MBA, had founded Mattel Toy Co. in El Segundo, CA. In the first year of sale in 1959, almost 400,000 Barbie® dolls were sold for \$3 each. Mattel almost went

bankrupt in 1974. Ruth and Elliott Handler were fired when she was indicted for securities fraud (deja vu — all over again). But Barbie® has prospered. The Barbie® Doll Hall of Fame in Palo Alto is now closed. Mattel purchased the collection three years ago and moved it to southern California where it is still in a warehouse. It is slated to reopen — sometime. See <http://www.barbie.com>

8. LEGO® was created by Ole Kirk Christiansen and his son Godtfred (age 12) in 1932 in Bellund, Denmark. The original LEGO's were wooden. The LEGO® company in 1947 was the first company in Denmark to use a plastic injection - molding machine. LEGOLAND® in Bellund, Denmark opened in 1968. Billions have been produced over the past 70 years. This family has become one of the wealthiest in Denmark. See <http://www.lego.com/eng/info/history/1932.asp>

9. The ERECTOR SET® was created by A.E. Gilbert in 1913. Gilbert was born in Salem, Oregon in 1884. He had a gift for magic and was a brilliant student, eventually graduating from the Yale Medical School. He never practiced medicine. He also had a talent for athletics, competed in the 1908 Olympics in London and won a gold medal in the pole vault. Inspired by the construction next to the railroad going into New York City, he created the ERECTOR SET®. By time of his death in 1963, he had issued over 150 U.S. patents. Gilbert was also the creator of the classic Gilbert Chemist Set. See <http://www.erectorset.net/start.html>

©2002 HOWARD M. PETERS

Note: Dr. Peters is a founding & charter member of CHAL and a CHAL Division Councilor. He is a patent attorney in Palo Alto, California.

## NEW CHEMISTRY EDUCATION MINOR

In the new edition of the ACS guidelines for ACS-approved programs, a new chemistry education minor was introduced. Also included were revised requirements for the chemistry education option. The new guidelines and application forms for the minor and the chemistry education option are now available from the Office of Professional Training by calling 202-872-4589 or emailing [cpt@acs.org](mailto:cpt@acs.org).

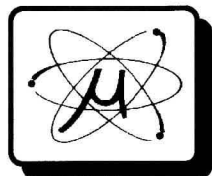


## PITTCON 2004 PLENARY LECTURE

The Pittsburgh Conference is proud to announce that Dr. Larry Faulkner, President of the University of Texas at Austin, will present a Plenary Lecture, "Good Chemical Measurements and Good Public Policies," to open the Program at PITTCON 2004 in Chicago March 7-12, 2004.

This presentation will have four parts covering (a) illustrations of the impact of analytical chemistry on public debate and public policy, including instances where analytical capabilities actually gave rise to new issues and policies, (b) the manner in which chemical information is handled and understood in public debates, (c) areas of analytical chemistry that will be critical to sound public policy in the future, and (d) implications for the education of leaders and general citizens of modern societies. PITTCON 2004 President John Baltrus stated that, "This shows our continued commitment to bring the most important and recognized speakers in the fields of chemistry and education to PITTCON."

For more information on the 2004 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, please visit website <http://www.pittcon.org>.



### **micron inc.**

#### **ANALYTICAL SERVICES**

#### **Morphology Chemistry Structure**

Scanning Electron Microscopy (SEM)  
Energy Dispersive X-Ray Analysis (EDS)  
Transmission Electron Microscopy (TEM)  
Electron Probe X-Ray Microanalysis (EPA)  
Wavelength Dispersive X-Ray Analysis  
Electron Spectroscopy (ESCA / AUGER)  
X-Ray Diffraction (XRD)  
X-Ray Fluorescence (XRF)  
Thermal Analysis (DSC / TGA)  
Micro-Fourier Transform Infrared (MFTIR)

Micron Inc.

3815 Lancaster Pike

Wilmington DE 19805

Phone (302) 998 1184, FAX 302 998 1836

E Mail [micronanalytical@compuserve.com](mailto:micronanalytical@compuserve.com)

Web Site : [www.micronanalytical.com](http://www.micronanalytical.com)

## 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, Cherlyn Bradley, [cbrad1027@aol.com](mailto: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 2004	12/26/03
March 2004	1/16/04
April 2004	2/27/04
May 2004	3/26/04
June 2004	4/30/04
September 2004	7/16/04
October 2004	8/27/04
November 2004	9/24/04
December 2004	10/22/04

### Contact the Chair

Do you have any questions, suggestions, recommendations, ideas, gripes, complaints, or pet peeves relating to the Chicago Section? Do you want to volunteer, help out, or lend a hand 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. The Section belongs to you and the other 5,600 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. Only you can make it fail by not being involved. I look forward to hearing from you.

SUSAN SHIH  
Chair

### Advertising Index

Company	Page	Telephone	URL
Jordi Associates	2	508-966-1301	<a href="http://www.jordiassoc.com">www.jordiassoc.com</a>
Mass-Vac, Inc.	6	978-667-2393	<a href="http://www.massvac.com">www.massvac.com</a>
St. Xavier University	7	773-298-3050	<a href="http://https://claws.sxu.edu">https://claws.sxu.edu</a>
Northup RTS	7	847-579-0049	<a href="http://www.toxconsultants.com">www.toxconsultants.com</a>
Axion Analytical Labs, Inc.	8	312-243-2153	<a href="http://www.ChromatographyTraining.com">www.ChromatographyTraining.com</a>
Desert Analytics	9	520-623-3381	<a href="http://www.desertanalytics.com">www.desertanalytics.com</a>
Micron Inc.	11	302-998-1184	<a href="http://www.micronanalytical.com">www.micronanalytical.com</a>

## FOOD DRIVE

We will be collecting canned goods for charity at the December Holiday Party. Please bring at least one can of food to donate when you come.

Last year you donated 500 pounds of food that went to the Loaves and Fishes Community Pantry for distribution. This was a 250% increase compared to what we collected in the first food drive in 2001. Let's try to beat last year's record!

## REGISTER TO ATTEND MONTHLY SECTION MEETINGS

### ON LINE

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

## GRANTS AND FELLOWSHIPS

### AAUW Fellowships

Applications are available for the 2004-2005 American Fellowships offered by the American Association of University Women. American Fellowships support women doctoral candidates completing dissertations or scholars seeking funds for postdoctoral research leave from accredited institutions.

Applicants must be U.S. citizens or permanent residents. Candidates are evaluated on the basis of scholarly excellence, teaching experience, and active commitment to helping women and girls through service in their communities, professions, or fields of research.

**Application postmark deadline is Nov. 15. See website at [http://www.aauw.org/fga/fellowships\\_grants/american.cfm](http://www.aauw.org/fga/fellowships_grants/american.cfm)**

**DO NOT DELAY  
DATED MATERIAL**

CHICAGO SECTION, AMERICAN CHEMICAL SOCIETY  
THE CHEMICAL BULLETIN  
7173 NORTH AUSTIN  
NILES, ILLINOIS 60714

## CALENDAR

**January 13, 2004:** Society of Cosmetic Chemists — Midwest Chapter meeting will be at the Grazie, Des Plaines, IL. For details, go to [www.midwestscc.org](http://www.midwestscc.org) or contact Angela Tabor at [atabor@stepan.com](mailto:atabor@stepan.com), (847) 784-2040.

**January 23, 2004:** The Chicago Section American Chemical Society's monthly dinner meeting. The after dinner speaker will be Sharon Bertsch McGrayne, author of the book "Promethans in the Lab". She will speak on "Claire C. Patterson: A Chemist Leads the Fight Against Leaded Gasoline".

**February 10, 2004:** Society of Cosmetic Chemists — Midwest Chapter meeting. For details, go to [www.midwestscc.org](http://www.midwestscc.org) or contact Angela Tabor at [atabor@stepan.com](mailto:atabor@stepan.com), (847) 784-2040.

**February 20, 2004:** The Chicago Section American Chemical Society's monthly dinner meeting. The College Education Committee is also sponsoring an undergraduate research symposium prior to the monthly dinner meeting. Stay tuned for further details.

**February 28, 2004:** The 20th Annual DuPage Area Engineers Week program.

**March 7-12, 2004:** The Pittsburgh Conference will be in Chicago. The exhibits will be March 8 through the 11th. For more information, call (412) 825-3220 or email at [program@pittcon.org](mailto:program@pittcon.org).

**March 9, 2004:** Society of Cosmetic Chemists — Midwest Chapter meeting. For details, go to [www.midwestscc.org](http://www.midwestscc.org) or contact Angela Tabor at [atabor@stepan.com](mailto:atabor@stepan.com), (847) 784-2040.

**March 19, 2004:** The Chicago Section American Chemical Society's monthly dinner meeting. The College Education Committee is also sponsoring an undergraduate research symposium prior to the monthly dinner meeting. More information as the date approaches.

**March 24, 2004:** Society of Cosmetic Chemists — Midwest Chapter Supplier's Day, Teamworks 2004. For details, go to [www.midwestscc.org](http://www.midwestscc.org) or contact Angela Tabor at [atabor@stepan.com](mailto:atabor@stepan.com), (847) 784-2040.

**April 13, 2004:** Society of Cosmetic Chemists - Midwest Chapter meeting will be at the Cafe La Cave, Des Plaines, IL. For details, go to [www.midwestscc.org](http://www.midwestscc.org) or contact Angela Tabor at [atabor@stepan.com](mailto:atabor@stepan.com), (847) 784-2040.

**April 23, 2004:** The Chicago Section American Chemical Society's monthly dinner meeting. The College Education Committee is also sponsoring an undergraduate research symposium prior to the monthly dinner meeting. More information as the date approaches.

**October 17-20, 2004:** ACS 36th Great Lakes Regional Meeting, Peoria, IL. Go to <http://membership.acs.org/g/rlrm04>.

Nonprofit Organization  
U. S. POSTAGE  
PAID  
Chicago, IL  
Permit No. 171



Register **ONLINE** for  
**Chicago Section**  
monthly Meetings

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

