

# theCHEMICALbulletin

<http://chicagoacs.org>

NOVEMBER • 2007

## CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Joint With The Chicago Chemists' Club

### Education Night

FRIDAY, NOVEMBER 16, 2007

Holiday Inn Northshore  
5300 W. Touhy  
Skokie, IL  
847-679-8900

#### DIRECTIONS TO THE MEETING:

**From the North on I-94 (Edens Expressway):**

Take the Touhy Avenue west exit (#39A). The Holiday Inn is 3 to 4 blocks west on the right side.

**From the South on I-90/94 (Kennedy Expressway):**

Make sure that when the I-90/94 split you take I-94 west "to Milwaukee"; exit at Touhy Avenue west (#39A). The hotel is 3 to 4 blocks on the right side.

**From O'Hare Airport on the I-190 expressway/I-90 (Kennedy expressway):**

Take I-190 east to Chicago to merge with the I-90. Go 2 miles down and exit on Harlem Ave north. After about 3 miles turn right on Touhy Avenue and the hotel will be 2 miles down on the left side.

**From the I-55 (Stevenson expressway):**

Take the I-55 to the I-90/94 expressway west to Wisconsin (Milwaukee); take the I-94 after the split to Touhy Avenue; then exit west on Touhy Ave. (#39A). The hotel is 3 to 4 blocks on the right side.

**From the West (the Touhy exit from I-294 is closed!):**

Take I-294 North to the River Road exit. Take River Road to Touhy Ave. Go east on Touhy to the hotel, which is on the left side.

**PARKING: Free**

**UNDERGRADUATE RESEARCH SYMPOSIUM:** 5:15 - 6:30 P.M.

UIC students featured  
See page 3

**JOB CLUB** 5:30 - 6:30 P.M.

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

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

Dinner reservations are required and should be received in the Section Office via **phone** (847-647-8405), **fax** (847-647-8364), **email** ([chicagoacs@ameritech.net](mailto:chicagoacs@ameritech.net)) or **web-site** (<http://chicagoacs.org>) by noon on Tuesday, November 13.

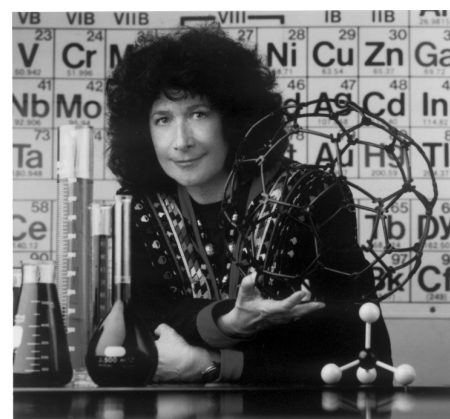
The cost is \$30 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to members who have NOT paid their local section dues and to non-Section members is \$32. The cost to students and unemployed members is \$15. Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. **No-shows will be billed.**

**MENU:** Soup de Jour, Garden Salad with choice of dressing; Choice of entrée: Chicken Vesuvio, Broiled Whitefish, or Pasta with vegetables; Chocolate Sundae; rolls and butter; Choice of beverage.

**AWARDS PRESENTATION 8:00 P.M.**  
Winners of the High School Scholarship Examination

**GENERAL MEETING** 8:15 P.M.

#### General Meeting Speaker



**Dr. Zafra Lerman**, Distinguished Professor of Science and Public Policy; Head, Institute for Science Education and Science Communication, Columbia College Chicago, Science Institute, Chicago, IL

**Title: "Using Visualization To Make Chemistry Accessible To All"**

**Abstract:** A Chinese proverb states: "I hear and I forget; I see and I remember; I do and I understand." At the Science Institute, Columbia College Chicago, we believe strongly in this Chinese proverb. Therefore, we use

*(continued on page 2)*

#### NOTICE TO ILLINOIS TEACHERS

The Chicago Section-ACS is an ISBE provider of professional development units for Illinois teachers. Teachers who register for this month's meeting will have the opportunity to earn up to 4 CPDU's.

(continued from page 1)

visualization so students will remember; but we also have them create their own visualizations, so that they will understand. This moves the class from a passive viewing mode to an active learning mode. The students can visualize using any media they feel the most comfortable, from computer animation (High Tech) to dance and drama (No Tech).

These projects are used as an alternative assessment method where the assessment and evaluation is done in a constructive way by the whole class and not just by the instructor. Many institutions in the US and around the world have adopted this method; the National Science Foundation awarded a collaborative grant (together with Princeton University and Indiana University) to adapt this method at the respective institutions. This method has been proven successful with undergraduate students, with science teachers and with middle and high school students. Examples will be shown during the lecture.

**Speaker's Information:** Zafra Lerman is Distinguished Professor of Science and Public Policy, and Head of the Institute for Science Education and Science Communication at Columbia College Chicago.

She received her Ph.D. from the Weizmann Institute of Science (Israel), and conducted research in isotope effects at Cornell University, Northwestern University, and at the Swiss Polytechnic in Zurich, Switzerland.

Professor Lerman developed an innovative approach of teaching science to non-science majors, which has received national and international recognition. She has been invited to lecture on her methods all over the U.S. and in many other countries, including Brazil, Turkey, Hungary, Australia, England, Russia, Germany, Mexico, China, Japan, Taiwan, Cuba, Egypt, Kenya, South Africa and Israel. She has received over \$5,000,000 in the past several years to work with Chicago inner-city teachers, parents and students.

She received the 1997 Chicago Section ACS's Public Affairs Award and the 1998 American Chemical Society Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences. In 1999, she received the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring from President Clinton. In 2000, she was presented with the World Cultural Council's Jose Vasconcelos World Award for Education in Johannesburg, South Africa (the first

international award presented in the new democratic South Africa), and in February 2001, she was elected a Fellow of the American Association for the Advancement of Science. She is the 2002 awardee for the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry from the ACS Northeastern Section and is the 2003 recipient of the ACS's Charles Lathrop Parsons Award in recognition of outstanding public service to chemistry. The Royal Society of Chemistry in England awarded her the 2005 Ronald Nyholm Lectureship – Education Division Award, and the New York Academy of Sciences presented her with the 2005 Heinz Pagels Human Rights for Scientists Award. Most recently, she has been named recipient of the 2007 George Brown Award for International Scientific Cooperation from the U.S. Civilian Research & Development Foundation (CRDF), an award established by the US Congress.

She has also been featured by newspapers, magazines, radio and television stations around the world.

Professor Lerman remains very active professionally with national and international associations in the fields of science, science education, and scientific freedom and human rights. It remains her tenet that free and equal access to science education is a basic human right that belongs to all.

### 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.

2008 Issue	Deadline
January	November 30
February	December 28
March	January 25
April	February 22
May	March 21
June	April 25
September	July 4
October	August 29
November	September 26
December	October 10

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## IN THIS ISSUE

- 1 – Dinner Meeting
- 2 – Chemical Bulletin Deadlines
- 3 – ChemShorts for Kids: Thermometer Thoughts
- 3 – Undergrad Research Symposium
- 4 – Annual Scholarship Chem Exam Results
- 5 – Message From the Chair
- 5 – Project SEED - A Program That Works
- 6 – Job Club
- 6 – 2008 Section Dinner Meeting Dates
- 7 – Obituary of Joe Matt
- 7 – Dell Discounts for ACS Members
- 7 – Ad Index
- 8 – Food Drive
- 8 – 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 their science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary school teachers. It is hoped that teachers will incorporate some of the projects in this column into their lesson plans.

### Thermometer Thoughts

Kids, how would you like to make your own thermometer? All you will need is some water, rubbing alcohol, a clear, narrow-necked plastic bottle, food coloring, a clear plastic straw, and tape or modeling clay. Here is what you do:

1. Pour equal volumes of rubbing alcohol and water into the bottle. You want the bottle to be at most 1/4 full.
2. Add a couple drops food coloring.
3. Put the straw in the bottle such that the bottom is under the liquid, but not touching the bottom of the bottle.
4. Fix the straw in place using tape or clay. Seal the bottle so that air cannot get in or out of the bottle around the straw.
5. Heat the bottle and watch what happens. An easy way is to hold it in your hands for a few minutes.
6. You can cool the bottle by putting it in the fridge.

Congratulations, you just made a thermometer! The air inside the bottle expands when warmed. This makes the liquid move up through the straw. You can watch your thermometer and see how the liquid changes throughout the day. What happens if your thermometer is in shadow or in sunlight? The liquid should go up the straw with heat and down the straw when cooled (hopefully not all the way or the thermometer might not work anymore).

Why does the level of the liquid

change with temperature? Because the air in the bottle changes volume with temperature. As air is heated it either expands or exerts more pressure. In trying to expand and in exerting pressure, it fights gravity and pushes some liquid up the straw. Most common thermometers work with exactly these principles.

References: <http://www.energyquest.ca.gov/projects/thermometer.html> and [http://experimentopia.org/experiment/build\\_your\\_own\\_thermometer/](http://experimentopia.org/experiment/build_your_own_thermometer/)

Edited by K. A. Carrado, Argonne National Laboratory

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

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## UNDERGRADUATE RESEARCH SYMPOSIUM FEATURES UIC STUDENTS

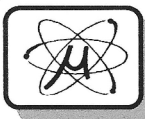
The College Education Committee will hold the annual undergraduate research symposium featuring students from the University of Illinois-Chicago Chemistry Department. They are: Nancy Rios (Senior, B.S. Biochemistry), "Toxicity studies of NAC(8-18), Non- Amyloid-beta Component peptide fragment"; Ashley L. Pumphrey (Junior, B.S. Chemistry), "Development of transition metal-catalyzed reactions involving vinyl azides"; Kyaw Sint (Senior, B.S. Biochemistry), "Novel Transport Phenomena in Artificial Nanopores and Carbon Nanotubes"; and Andrea Antoniou (Junior, B.S. Biochemistry), "A Spectrin-Interacting Protein - A Kinase-Interacting Protein (AKIP1)".

The UIC students have successfully completed phases of their research and will present interesting stories of their work. Their advisors include Dr. Leslie Fung (Professor of Biochemistry) and Dr. Cynthia J. Jameson (Professor of Physical Chemistry).

**The symposium will be held in conjunction with the November 16 Chicago Section monthly dinner meeting and will begin at 5:15 p.m.**

Volunteers from both industry and academe are invited to join the College Education committee. The committee plans and facilitates the annual Undergraduate Symposium in Chemistry sponsored by the Section, which is designed to further students' continued growth and effectiveness.

CHARLES CANNON, CHAIR  
COLLEGE EDUCATION COMMITTEE



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## ACS LAUNCHES SOCIAL NEWS AND BOOKMARKING SITE

**Chemistry.org/exchange** is a new social news and bookmarking site where you can share, vote, and comment on articles and news among a global community.



## 2007 FIFTY-THIRD ANNUAL SCHOLARSHIP EXAMINATION IN CHEMISTRY

**SPONSOR:** Chicago Section, American Chemical Society: High School Education Committee

**HELD AT:** North Central College on May 19, 2007

**AWARDS:** Funds are contributed by the chemical industry and by individuals.  
Teachers of a prize-winning student(s) receive \$100.

<u>PRIZE</u>	<u>WINNER</u>	<u>SCHOOL &amp; TEACHER</u>
<b>FIRST \$5,000 AWARD</b>	<b>Michael Tarczon</b>	<b>Preston Hayes</b> Glenbrook South HS
<b>SECOND \$3,000 AWARD</b>	<b>Joshua Rosen</b>	<b>Garrett Forbes</b> New Trier HS
<b>THIRD \$2,500 AWARD</b>	<b>Andrew Jacobs</b>	<b>Preston Hayes</b> Glenbrook South HS
<b>FOURTH \$1,500 AWARD</b>	<b>Michael Pearlman</b>	<b>Kip Hendren</b> New Trier HS
<b>FIFTH \$1,250 AWARD</b>	<b>Kate Rudolph</b>	<b>Dan Brown</b> Naperville Central HS
<b>MARIE LISHKA * \$2000 AWARD</b>	<b>Kate Rudolph</b>	<b>Dan Brown</b> Naperville Central HS
<b>MARSHALL S. SMOLER** \$200 AWARD</b>	<b>Alan Cowen</b>	<b>James Galinski</b> Lincoln Park HS
<b>BERNARD E. SCHAAR*** \$500 CHICAGO CHEMISTS' CLUB AWARD</b>	<b>Patrick M Saieh</b>	<b>Don Molenda</b> Brother Rice HS

\*To the highest scoring female in the examination. This award honors **Marie Lishka**, who was an active Chicago Section member for many years. Additional funding for the Lishka award was provided in memory of **Stan Drigot**.

\*\*To the highest-scoring Chicago public high school student. This award was established in 1972 in memory of **Marshall S. Smoler** by his sister, Rachel. Mr. Smoler was for many years a chemistry teacher in the Chicago public schools.

\*\*\* To the highest scoring Chicago high school student. Mr. Bernard Schaar's widow established this award in memory of **Mr. Bernard Schaar**, long active in the Chicago Section, American Chemical Society and in the Chicago Chemist's Club.

### HONORABLE MENTIONS LISTED IN ALPHABETICAL ORDER (THESE STUDENTS WERE THE NEXT HIGHEST PERFORMERS)

**Ryan Asensio**  
**Julian Caracotsios**  
**Catherine Groden**  
**Allison Hugi**  
**Emily Hyun**  
**Alicia Johnson**  
**Matthew Monson**  
**Allen Ni**  
**Debbie Xie**

Naperville North HS  
Naperville North HS  
Loyola Academy  
New Trier HS  
New Trier HS  
New Trier HS  
Oak Park River Forest  
Vernon Hills HS  
Naperville North HS

A total of 86 students were nominated to take the 2007 ACS Scholarship exam. Each chemistry teacher could nominate two students. **Awards will be given to students at the ACS Education Night meeting on November 16, 2007 at Loyola University.** Award winners and their teachers will be contacted by the Chicago ACS office.

**All teachers and students are invited and encouraged to attend the ACS Education Night meeting. Teachers who attend the ACS Education Night meeting will receive CPDU credits. Teachers do not have to be ACS members to attend. Register online at <http://membership.acs.org/C/Chicago>.**

A special thank you to Dr. Paul Brandt, Chemistry Professor at North Central College, for his hard work and willingness to author the exam.

FINANCIAL CONTRIBUTORS TO THE SCHOLARSHIP EXAM: ACS Chicago Section, Stan Drigot, Dr. Henry M. Walton, Chicago Chemists' Club, and Rachel Smoler.

## MESSAGE FROM THE CHAIR

Our November section meeting will be on Friday, November 16. The speaker will be one of our Chicago Section members, Professor Zafra Lerman of the Science Institute at Columbia College Chicago. In October, Professor Lerman received the George Brown Award for International Scientific Cooperation, presented by the U. S. Civilian Research & Development Foundation. This award recognizes Zafra's work in the Middle East and around the world as a glowing example of how scientific collaboration can unite countries and improve communications. The Chicago Section congratulates Zafra on this well-deserved honor.

As we approach the Thanksgiving holiday, all of us have many reasons to be thankful. We may not think of chemistry as one of our blessings, but it is the source of many good things in our lives. The science of chemistry is used in many practical and beneficial applications that have been developed by individual chemists and an extensive chemical industry. Thousands of chemistry departments have been established to educate new chemists, and we have all benefited from teachers who taught us the skills of our profession. Most of us have worked in academic or industrial organizations, continuing to add to our collective knowledge of chemistry.

Have you ever had a desire to give something back to a profession that has given much to you? The Chicago Section offers many opportunities for you to encourage others to become tomorrow's chemists. Some of our activities that directly involve students include: DuPage Area Engineers Week, Earth Day, Project SEED, Annual Chemistry Exam and Scholarship Awards, Illinois State Fair Chemistry Booth, Chemistry Day, and Education Night. Please consider becoming a part of these or other activities of the Chicago Section. Check our website or contact the section office if you need more details about a specific activity. I will have more to say about some of my reasons to be thankful in our next issue.

KEN FIVIZZANI

### DID YOU KNOW?

The Chemical Bulletin is online at  
[www.chicagoacs.org](http://www.chicagoacs.org)

## PROJECT SEED - A PROGRAM THAT WORKS

You and your organization are invited to apply to participate in Project SEED, the American Chemical Society's social action program that places economically disadvantaged high school students in academic, industrial, and governmental research laboratories for eight-to-ten weeks during the summer.

Project SEED offers high school students two exciting research opportunities:

- **The Summer I program provides first-time participants (rising juniors and seniors) a fellowship award of \$2,600.**
- A second-year program, Summer II, provides Project SEED Summer I students an additional summer of scientific research. These students will receive a fellowship award of \$3,000. Additionally, Summer II students will be eligible for a travel grant of up to \$100 to present their research at an ACS or other scientific meeting.

Each student does a scientific research project in chemistry or related field under the direct supervision of a scientist/mentor. The students must be economically disadvantaged and must be enrolled in high school or be recent high school graduates; no student who has matriculated in college is eligible. The students must have taken one year of high school chemistry.

In addition to hands-on research, Project SEED students receive guidance on their career and personal development. Mentors provide strategies for helping students reach their objectives,

give feedback, and allow opportunities for growth that may include exposure to key members of an organization. SEED I students who have completed a Summer I program and have not matriculated in college can return a second summer and do more research. On completion of a SEED II research program, the students also have the opportunity to apply for one of the Project SEED college scholarships.

**You need not have a student yet in order to apply to be a mentor.** Apply now to sponsor a student and the local Project SEED Committee will work with you to obtain a student. Funding for the student will come from the National Project SEED office and some funds from the local Section.

Be sure to visit the Project SEED website for more information: [www.acs.org/education/SEED.html](http://www.acs.org/education/SEED.html)

You can also obtain an application form, program guidelines, and other information from your local Section Project SEED co-chair, Cherlyn Bradley ([cbrad1027@aol.com](mailto:cbrad1027@aol.com)) or from the National ACS Committee on Project SEED staff at 1-800-227-5558, ext. 4380.

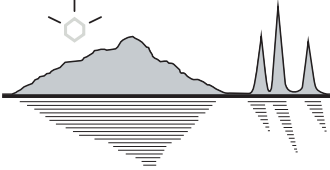
**APPLICATIONS FOR THE 2008 SUMMER PROGRAM WILL BE AVAILABLE IN NOVEMBER.**

**THE APPLICATION DEADLINE IS FEBRUARY 2008.**

If you or your company would like to donate to your Chicago Section's Project SEED program to sponsor a local student, contact the Chicago Section office at (847) 647-8405.


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## JOB CLUB

The next meeting of the Chicago Section ACS Job Club will be held on Friday, November 16 at 5:30 p.m. at Holiday Inn Northshore. The meeting will include a review and discussion of some of the tools that a chemist can use to conduct a job search.

The Job Club provides a continuing opportunity for unemployed members of the Section to meet with one another, share their experiences and develop a network that may help in identifying employment opportunities. Bring plenty of resumes and business cards to distribute to your colleagues. Be prepared to talk about the kind of job you are seeking.

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group has critiqued some individual resumes and made suggestions for improvements in a positive way!

The Job Club is also for employers seeking chemists. Employers need to be prepared to describe the positions to be filled and requirements for these positions.

Should you wish to attend the Section's dinner meeting following the Job Club, the cost is \$15 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

## 2008 CHICAGO SECTION DINNER MEETING DATES

- |                     |   |
|---------------------|---|
| <b>January 24</b>   | (Thursday)- Jointly with AICHE                                |
| <b>February 22</b>  | Jointly with IIT  |
| <b>March 27</b>     | Public Affairs Meeting  |
| <b>April 17</b>     | (Thursday)- Jointly with Joliet Section                       |
| <b>May 16</b>       | Gibbs Award Banquet   |
| <b>June 20</b>      | (Luncheon) - Distinguished Service Award; 50-year members     |
| <b>September 19</b> | Education Night, Jointly with Loyola                          |
| <b>October 24</b>   | Basolo Medalist Lecture at Northwestern                       |
| <b>November 19</b>  | (Wednesday) - Stieglitz Lecture - Jointly with U of Chicago   |
| <b>December 5</b>   | Holiday Party - Jointly with Chemists' Club and Iota Sigma Pi |



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## OBITUARY

**Dr. Joseph Matt**, 87, a resident of Bettendorf, Iowa, formerly of Downers Grove, IL died on Monday, Aug. 13, 2007 of complications from head injuries sustained in a fall. He is survived by his wife Barbara, his daughters Elizabeth Turner and Susan Matt, and grandchildren.

Joe was born on Jan. 10, 1920 in Minneapolis to Rabbi C. David and Lena Matt. In 1961, he married Barbara Jipson in Chicago.

A research chemist, he received his Ph.D. from Purdue University in organic chemistry, with minors in chemical engineering and biochemistry. He received his master's degree from Penn State, and bachelor's degree (with distinction) from University of Pennsylvania.

During a long career in industry, he was employed by Merck, Sharpe & Dohme, Armour & Company, Alkydol Laboratories, Velsicol Chemical and for over 20 years at Nalco Chemical. He was issued over 16 patents and authored several chemical journal publications.

He was a member of the American Chemical Society, Sigma Xi, Phi Lambda Upsilon, and the Chicago Chemists' Club where for many years he edited

the Chemists' Club newsletter.

Joe had many interests. He was an inveterate punster and loved a good game of Scrabble. He and his wife were members of the Jackson Park Camera Club and for 18 years they exhibited their photography at art fairs throughout the greater Chicago area. He loved classical music and had great interest in political and world affairs. He was also a member of B'nai Brith.

**NEXT ISSUE will be  
for  
December 7 Holiday Party**

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

## CALENDAR

**November 6-13:** Associated Colleges of the Chicago Area (ACCA) hosts a series of lectures on cosmetic chemistry; Tuesday evenings from 7-9 p.m. at Benedictine University in Lisle; Birk Hall of Science, Rm. 112. Call (815) 939-5393 or email [darmstrg@olivet.edu](mailto:darmstrg@olivet.edu) for details.

**November 7-10:** ACS Midwest Regional Meeting, Intercontinental Hotel, Country Club Plaza, Kansas City, MO. For further information, go to <http://membership.acs.org/m/mwrm2007>

**November 8:** Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at 847-647-8405.

**November 16:** Chicago Section's Education Night dinner meeting. Zafra Lerman, Columbia College Chicago, is the after-dinner speaker. **See details in this issue.**

**November 29:** Chicago Section Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at 847-647-8405.

**December 7:** Chicago Section's Holiday Party and dinner meeting at the Willowbrook Holiday Inn. Peter Ludovice, Georgia Tech, is the after-dinner speaker.

**January 24, 2008:** Chicago Section's joint dinner meeting with AIChE. This is a Thursday meeting.

**January 26-30, 2008:** LabAutomation2008, a conference focused exclusively on the rapidly growing field of laboratory automation, will be at the Palm Springs Convention Center, Palm Springs, CA. For information, go to [labautomation.org/LA08](http://labautomation.org/LA08).

**February 22, 2008:** Chicago Section's joint dinner meeting with IIT.

**March 2-9, 2008:** PittCon Conference and Expo, New Orleans, LA.

**March 27, 2008:** Chicago Section's Public Affairs Meeting. Bob Massie, CAS president, is the after-dinner speaker. This is a Thursday meeting.

**April 6-10, 2008:** The 235th ACS National Meeting & Exposition, New Orleans, LA.

### 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 about 500 pounds of food that went to the Loaves and Fishes Community Pantry for distribution. Let's beat last year's record!

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