

theCHEMICALbulletin

<http://chicagoacs.org>

SEPTEMBER • 2008

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Jointly with the Chemistry Department of

Loyola University and the Chicago Chemists' Club

Education Night

FRIDAY, SEPTEMBER 26, 2008

Loyola University
6525 North Sheridan Road
Chemistry Department/Flanner Hall
Chicago, IL
(773) 274-3000

DIRECTIONS TO THE MEETING

Flanner Hall is located at 1068 West Sheridan Road on the Lake Shore campus of Loyola University, near the intersection of West Sheridan Road and Winthrop. **See Page 2 for directions and parking.**

REGISTRATION 4:30 - 6:30 P.M.
Flanner Hall lobby

POSTER SESSION 4:30 - 6:30 P.M.
Loyola chemistry student research
Flanner Hall lobby

PRE-DINNER FORUM 4:30 - 5:30 P.M.
Diversity Programs in Industry and
Academe

JOB CLUB 5:00 - 6:00 P.M.

PRE-DINNER TALK 5:30 - 6:30 P.M.
"Using Math = Understanding Chemistry. Is this a valid equation?" presented by **Dr. Patrick L. Daubenmire**, Center for Science and Math Education and Department of Chemistry, Loyola University, Chicago

Abstract: Among chemistry professionals, there is consensus that the tools of mathematics are essential to building an understanding of chemistry. Colleges and universities administer entrance exams for chemistry that

DINNER 6:30 P.M.
Simpson Living Center

An excellent dinner will be in the nearby Simpson Living Center and is served cafeteria style. The cafeteria provides a large variety of items on an all-you-can-eat basis. A portion of the cafeteria will be reserved for ACS attendees. Dinner admission tickets are obtained at the ACS registration table in Flanner Hall for a flat charge of \$10.00 per person. No discounted dinners for students, retirees or unemployed.

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) or **website** (<http://chicagoacs.org>) by noon on Wednesday, September 24. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

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

NOTICE TO ILLINOIS TEACHERS

The Chicago Section ACS is an ISBE provider for 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.

GENERAL MEETING 8:15 P.M.



Dr. Richard B. Silverman
John Evans Professor of Chemistry, Department of Chemistry, Department of Biochemistry, Molecular Biology, and Cell Biology, Center for Drug Discovery and Chemical Biology, Northwestern University, Evanston, IL

Title: "Drug Discovery: Ingenuity or Serendipity?"

Abstract: To the non-expert in the field of medicinal chemistry, it is generally believed that drug discovery is a routine process involving much rational thought and scientific cleverness. This lecture will focus on common approaches taken by medicinal chemists for the discovery of drugs and will include a discussion of how several popular drugs work. The question of whether drug discovery is rational and ingenious or occurs by serendipity will

(continued on page 2, column 3)

(continued on page 2)

(continued from page 1)

be entertained. The design and process involved in the discovery and licensing of Lyrica™, a relatively new drug for the treatment of neuropathic pain, fibromyalgia, and epilepsy, which was invented by the speaker, will be discussed.

Biography: Richard B. Silverman is the John Evans Professor of Chemistry and member of the Center for Drug Discovery and Chemical Biology at Northwestern University. He received his B.S. degree in chemistry from The Pennsylvania State University in 1968 and his Ph.D. degree in organic chemistry from Harvard University in 1974 (with time off for a two-year military obligation from 1969-1971). After two years as a NIH postdoctoral fellow in the laboratory of the late Professor Robert Abeles in the Graduate Department of Biochemistry at Brandeis University, he joined the chemistry faculty at Northwestern University. In 1986 he became Professor of Chemistry and Professor of Biochemistry, Molecular Biology, and Cell Biology. In 1996 he was named the Arthur Andersen Professor of Chemistry for a period of two years, in 2001 he became the Charles Deering McCormick Professor of Teaching Excellence, and in the fall of 2004 he was named the John Evans Professor of Chemistry.

Awards include DuPont Young Faculty Fellow in 1976, an Alfred P. Sloan Research Fellow in 1981-1985, a NIH Research Career Development Awardee 1982-1987, Fellow of the American Institute of Chemists in 1985, Fellow of the American Association for the Advancement of Science in 1990, an Arthur C. Cope Senior Scholar Awardee of the American Chemical Society in 2003, and a Distinguished Alumni Award from Penn State in 2008. He is the recipient of several teaching awards, including the E. LeRoy Hall Award for Teaching Excellence and the Excellence in Chemistry Education Award from the Northwestern University Chapter of Alpha Chi Sigma Chemistry Fraternity in 1999, the Northwestern University Alumni Teaching Award in 2000, and the Charles Deering McCormick Chair in Teaching Excellence in 2001.

Professor Silverman is the inventor of Lyrica™ (pregabalin), marketed worldwide by Pfizer for refractory epilepsy, neuropathic pain, fibromyalgia, and (in Europe) for generalized anxiety disorder. He has published 242 research articles, holds 39 domestic and foreign patents, and has written four books (one translated into German).

Directions to Loyola

By public transportation:

Take the CTA Red Line train to the Loyola stop.

From Downtown Chicago:

Take the Outer Drive north to its end. Follow Sheridan Road north until it turns west at 6500 N. Follow directions below to parking.

From the West:

Take I-294 North to the Touhy Avenue East exit (this is the very first exit after toll plaza). Proceed east on Touhy to Talcott, the first stoplight.

Turn right onto Talcott and go to Devon (first stoplight after passing high school). Turn left on Devon and continue on to Caldwell. Turn right on Caldwell (this road becomes Petersen) to Western.

Turn north on Western to Devon. Turn east on Devon and continue east to Kenmore Avenue. Turn left on Kenmore to the Loyola Campus.

See parking information below.

From North and Edens Expressway (I-94):

Take I-94 (Edens Expressway) to the Peterson Avenue East Exit. Take Peterson east to Western Avenue.

Turn left on Western (north) to Devon and go east. Continue to Kenmore Avenue.

Turn left on Kenmore to the Loyola Campus.

See parking information below.

SEE ALSO DETAILED MAPS ON OUR WEBSITE

PARKING: Enter the campus at the intersection of Kenmore and Sheridan Road and bear to the left. Parking is available at the parking deck next to Flanner Hall for \$6.00. Enter the garage at the entrance marked "Faculty, Students, Guests, Visitors." When leaving the garage, first purchase an exit parking ticket at the pay station machine located near the garage stairs and elevators.

(continued from page 1, column 1)

Pre-Dinner Talk Abstract

are based on solving math problems. Chemical education research supports a

correlation between logical reasoning ability for solving math problems and a readiness to learn principles of chemistry.

Once in, chemistry students may choose to rely on their mathematical ability to pass the course. Instructors can reinforce this behavior. Chemical concepts are introduced using definitions with mathematical formulas (e.g. density, $D = m/v$). Class lessons proceed with sample problems solved with mathematical steps. Similar problems are then assigned for homework. Test questions, maybe with variations from sample and homework problems, often only require the repetition of an algorithm to be solved correctly. In this mode, many students can earn above average and excellent performance grades in a course. Many of those students, though, cannot demonstrate knowledge of the chemical concepts underlying the problems.

Using only mathematically-based approaches limits students' exposure to only one viewpoint of matter – the symbolic representations. Incorporating the macroscopic perspective and the particle nature of matter with the symbolic representations can foster students' understanding. Encouraging students to synthesize these viewpoints and explain their reasoning on tests can further deepen this knowledge.

This talk will focus on classroom and research examples of utilizing these multiple perspectives during instruction and on tests and quizzes.

(speaker's information on page 3)

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"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.

How an Ice Cream Float Works

An ice cream soda or ice cream float is made by adding soda pop or seltzer to ice cream. Some people add flavoring, like chocolate syrup, or a little milk. Whatever recipe you use, as soon as the soda hits the ice cream you get fizzy, frothy, tasty bubbles.

Do you know how it works? It's basically the same as what is going on with the Mentos™ soda fountain (see "Mentos Mayhem" in September 2004 ChemShorts), except not as messy. You are releasing the carbon dioxide in the soda out of solution. Bubbles of air in the ice cream provide nucleation sites around which carbon dioxide bubbles can form and grow. Some ingredients in the ice cream lower the surface tension of the soda so the gas bubbles can expand, while other ingredients trap the bubbles in much the same way that small amounts of protein in seawater trap air to form seafoam.

Very popular varieties include black cows (cola and vanilla ice cream), brown cows (root beer and vanilla ice cream), and a coffee cola float (which is both bubbly and caffeinated). For kids, purple cows are also a big hit -- they are both frothy and leave a purple tongue and mustache -- a double win.

A Purple Cow has purple grape juice and milk and/or milk products. Here's a few versions; take your choice.

Purple Cow #1

1 1/2 cups cold skim or reduced fat milk
3 tbsp frozen grape juice concentrate
1/2 cup low-fat vanilla frozen yogurt or ice milk
5 medium ice cubes or the same amount of crushed ice
Place all ingredients in a blender and process until smooth.

Purple Cow #2

3/4 cups 1 percent low-fat milk
1 1/2 tbsp frozen grape juice concentrate
1/4 cups fat-free vanilla yogurt
Combine ingredients in a container with lid and shake until well blended. Pour

into a tall glass.

Welch's Purple Cow #3: in a 12 oz. glass combine two scoops of vanilla ice cream with chilled Welch's purple grape juice.

References: Anne Marie Helmenstine at: <http://chemistry.about.com/b/2008/06/23/how-an-ice-cream-soda-or-float-works.htm> and http://sneakykitchen.com/Recipes/purple_cow.htm

Edited by K. A. CARRADO, Argonne National Laboratory

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



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September 8-10, 2008**

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September 24-25, 2008**

**Fred Basolo Medal and Lecture for
Outstanding Research in Inorganic
Chemistry**

**Professor Robert Grubbs, California
Institute of Technology
October 17, 2008**

**The Aldrich Inorganic Chemistry
Lecture**

**Professor Ken Raymond, University
of California, Berkeley
October 24, 2008**

**Malcolm Dole Distinguished Lectures
in Physical Chemistry
Professor Stuart Rice, University of
Chicago**

October 28-30, 2008

For more information contact:
Teri Collins@ theresa-collins@northwestern.edu or call
847-467-3946

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PRE-DINNER SPEAKER INFORMATION

Patrick Daubenmire came to Loyola in the fall of 2005 after teaching high school chemistry for ten years at Blakefield Jesuit High School in Baltimore, MD. At Loyola, Patrick has taught introductory chemistry to science majors as well as action research to both high school and middle school teachers. He has undergraduate degrees in Chemistry and Theology from St. Louis University, and a Ph.D. in Chemical Education from the Catholic University of America.

Currently, Patrick is the project lead for Loyola's participation in Chicago's High School Transformation project, one of the largest and most comprehensive educational efforts undertaken in any urban school district.

REGISTER TO ATTEND MONTHLY SECTION MEETINGS

ON LINE

at
www.ChicagoACS.org

2008 BASOLO MEDAL AWARD TO ROBERT GRUBBS

Northwestern University will honor **Professor Robert Grubbs**, California Institute of Technology, with the Basolo Medal for recognition of work in inorganic chemistry. Named for Northwestern University chemistry professor Fred Basolo, the award is given by Northwestern University and cosponsored by the ACS Chicago Section. Professor Grubbs will deliver the award lecture at the Northwestern University Technological Institute in Evanston, IL on October 17.

The Medal presentation will follow the lecture at the Chicago Section's meeting. Meeting information and additional details will be found at the section's website, www.chicagoacs.org. Reservations may be made on-line or by calling the Section's office at (847) 647-8405.

2008 FIFTY- FOURTH ANNUAL SCHOLARSHIP EXAMINATION IN CHEMISTRY

The High School Education Committee of the Chicago Section ACS held its 54th annual High School Scholarship Examination on May 24, 2008 at North Central College. This year, 103 students were nominated to take the examination. Each high school chemistry teacher could nominate up to two students.

<u>PRIZE</u>	<u>WINNER</u>	<u>TEACHER & SCHOOL</u>
FIRST \$5,000 AWARD	Robin Jia	Marlene Rubinow Oak Park River Forest HS
SECOND \$3,000 AWARD	Daniel Eisenberg	Ann Levinson Chicagoland Jewish HS
THIRD \$2,500 AWARD	Evangelie Zachos	Cheryl Rulis Oak Park River Forest HS
FOURTH \$1,500 AWARD	Ilya Raskin	Autumn Penney Niles West HS
FIFTH \$1,250 AWARD	Krystle Leung	Steve Wiesbrook Naperville Central HS
MARIE LISHKA * \$2000 AWARD	Evangelie Zachos	Cheryl Rulis Oak Park River Forest HS
MARSHALL S. SMOLER** \$200 AWARD	Jane Huang	Walt Kinderman Walter Payton College Prep HS
BERNARD E. SCHARR*** \$500 CHICAGO CHEMISTS' CLUB AWARD	Jane Huang	Walt Kinderman Walter Payton College Prep 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 Chicago Section, American Chemical Society and the Chicago Chemists' Club.

(continued on page 5)

HONORABLE MENTIONS LISTED IN ALPHABETICAL ORDER

(These students were the next highest performers)

Erisa Apantaku	New Trier HS
James Buschbach	Brother Rice HS
Will Edwards-Mitel	New Trier HS
Ari Eisenstadt	Chicagoland Jewish HS
Alicia Singham Goodwin	Latin School of Chicago HS
Eric Hallman	Oak Park River Forest HS
Ryan Kames	New Trier HS
Christian Kreb	Loyola Academy
Adam Newman	Naperville North HS
Irina Pushel	Naperville North HS
Michael Quevillon	Naperville North HS
Steven Server	New Trier HS
Harrison Siegel	New Trier HS
Josh Zeidman	Niles North HS

Awards will be given to students at the ACS Education Night meeting on September 26, 2008 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

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 ARE: ACS Chicago Section, Stan Drigot, Dr. Henry M. Walton, Chicago Chemists' Club, and Rachel Smoler.



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e-Women Chemists

The National WCC Newsletter is now sent electronically!

If you received the spring-summer 2007 newsletter electronically, your correct e-mail address is in the files and you will continue to receive future issues. To provide an alternate e-mail address, or for other inquiries, please contact service@acs.org.

If you did not receive the spring-summer 2007 newsletter, you may opt-in for future newsletters from the WCC webpage <http://membership.acs.org/W/WCC/>

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JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held at Loyola University on Friday, **September 26 at 5:00 p.m.** 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 \$10 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

Also, the Chicago Section's website has a link to the Job Club's yahoo job forum group. If you can't attend the Job Club, you can still find out about job openings and other information.

DEADLINES FOR CHEMICAL BULLETIN

Please submit all Chemical Bulletin copy to the editor before the deadlines listed below for each issue. Articles should 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.

2008 Issue	Deadline
October	August 29
November	September 26
December	October 10

DEATH NOTICE

Adele Rozek, long-time member of the Chicago Section ACS died Sunday morning, June 8, on her 85th birthday. She had been a resident of Arden Court of Bingham Farms in Michigan for over five years.

Adele graduated from Girls Catholic Central High School in 1941 and attended the University of Detroit, graduating in 1945 with a B.S. degree in chemistry.

A longtime chemist in the herbicide industry, she was employed at Ethel Corp. and Sandoz Company. After retiring from Sandoz, she joined Abbot Laboratories, where she worked part time for a number of years.

Adele was a former board member of the Chicago Section and earned her 60 year membership certificate. She served as Chair of the Section in 1986 and supported us in more ways than can be counted. She was also a volunteer at Resurrection Hospital in Park Ridge, Illinois and at the Art Institute of Chicago for a number of years.

An enthusiastic world traveler who enjoyed new experiences and new places, she had just taken a recent trip to Antarctica. When not traveling, Adele enjoyed golf and skiing.

PRESIDENTIAL DEBATES AND BEYOND – DOING THE BEST WE CAN FOR 2008

In the June issue of the "Chemical Bulletin," I wrote about the very concerted attempt to get the presidential contenders to have a debate on scientific policy issues before the parties choose their respective party candidates for the fall election. It was obvious when I was writing that it wasn't going to happen. I don't know just what types of approaches were made to the various camps and what responses were received, but we all know now that nothing happened. The situation now is that sometime in late August, both major parties held their conventions, and we have formal party nominations for president and vice president. (As of this writing in July, we know the presidential nominees, but vice presidents are yet to be chosen.)

We don't know yet just what kind of formal debates- if any - will be conducted during the campaign. One of the nominees has made a suggestion in this regard, but to my knowledge, there has been no formal agreement of any kind as of yet (July 4).

The group Sciencedebate2008 has recently prepared and mailed out a

request for participation in the presidential electoral campaign by the scientific community. They will make the information and data available to everyone who wishes to have it and be a part of the process. If you joined and registered with the group and signed up already you might already have access to the questions and information. They have prepared a list of 14 questions for submission to the presidential candidates. You may view this list of questions by accessing the "**Scientists and Engineers for America**" website at <http://sharp.sefora.org/presidential-candidates-questionnaire/>.

There is also a list of 7 questions that have been prepared and made available for congressional candidates. My assumption is that this has already been done, and at least some of the candidates have responded. You may check your representative's response by accessing <http://sharp.sefora.org/innovation2008/>, which is the link to the congressional site. If you wish, you may respond to your representative's comments by contacting his office. If he or she has not responded, you might want to encourage them to do so. To my knowledge, this is the first time that such a broad based, ambitious attempt has been made to have the viewpoint of scientists and their organizations become a part of the electoral process. Let us try to utilize this effort, for it is truly nonpartisan, speaking only to the scientific issues. And the nation needs such an effort.

JIM SHOFFNER
COCHAIR, PUBLIC AFFAIRS COMMITTEE

DR. JOAN BRENNECKE OF NOTRE DAME ACCEPTS INVITATION AS STIEGLITZ LECTURER

Dr. Joan Brennecke, Keating-Crawford Professor of Chemical Engineering at Notre Dame University, will give the Stieglitz Lecture for the Chicago Section on Wednesday, November 19, 2008. Dr. Brennecke received the Ipatieff Prize from the American Chemical Society in 2001 and has been honored extensively for her achievements. She has done significant work in ionic liquids, carbon dioxide chemistry, and chemical separations. We will present more about her and her achievements in a later issue of the *Chemical Bulletin*. Dr. Brennecke will be the sixtieth lecturer to be so honored by the University of Chicago and the Chicago Section since the lecture was first given in 1940. We congratulate her on this honor, and look forward to her lecture.

JIM SHOFFNER
CHAIR OF THE STIEGLITZ COMMITTEE

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SEPTEMBER HISTORICAL EVENTS IN CHEMISTRY

September 5, 1892 Coca Cola Company was incorporated.

September 7, 1829 F. August Kekulé was born. One hundred and fifty years ago in 1858, he described the quadrivalence of carbon and structural theory of organic chemistry. In 1865, he conceived the ring structure of benzene and synthesized acetylene in 1864.

September 9, 1858 One hundred and fifty years ago, Carl Auer von Welsbach was born. He was a researcher in rare earths who discovered neodymium and praseodymium in 1885, and lutetium in 1907 with Georges Urbain. An invention of his was the incandescent mantle (Welsbach Mantle or Auerlicht).

September 10, 1775 John Kidd, who discovered naphthalene in coal tar in 1819, was born.

September 12, 1897 Irène (born on this date) and Frédéric Joliot-Curie produced artificial radioisotopes in 1933. In 1935, they shared the Nobel Prize in Chemistry in recognition of their synthesis of new radioactive elements.

September 13, 1945 B. B. Cunningham and L. B. Werner isolated the first microscopic amount of a compound of americium at the wartime U. S. Metallurgical Laboratory, University of Chicago.

September 14, 1961 Analtech, Inc., manufacturer of products for thin layer chromatography, was founded as Custom Service Chemicals. The name was changed to Analtech in 1965.

September 16, 1970 Great Lakes Chemical Co. was incorporated.

September 20, 1842 James Dewar, who invented the vacuum flask (Dewar flask) in 1892, was born. He was the first to liquefy hydrogen in 1899 and showed that many common substances phosphoresce at liquid air temperature.

September 24, 1874 Alexander Findlay, an authority on phase rule, was born.

September 25, 1866 Thomas H. Morgan, one of the founders of modern genetics, was born. He received the Nobel Prize in Physiology or Medicine in 1933 for his discoveries concerning the role played by the chromosome in heredity.

September 26, 1886 Archibald V. Hill, who did research on oxygen consumption of muscular action, was born. He received the Nobel Prize in 1922 for his discovery relating to the production of heat in the muscle and shared the prize with Otto F. Meyerhof.

September 28, 1852 Henri Moissan, who discovered fluorine in 1886 and invented an electric furnace in which he prepared metal carbides and silicon carbides, was born. In 1906, he received the Nobel Prize in Chemistry in recognition of the great services rendered by him in his investigation and for the adoption in the service of science of the electric furnace called after him.

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Additional historical events can be found at Dr. May's website, <http://faculty.cua.edu/may/Chemistrycalendar.htm>

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ACS CHEMICAL TECHNOLOGY STUDENT RECOGNITION AWARD

A continuing award for students is the ACS Chemical Technology Student Recognition Award. This award recognizes students who demonstrate performance excellence while preparing to become professional chemical technicians.

Students who win this award meet the following criteria:

- A high level of integrity and reliability.
- A high level of performance in laboratory work. Performance should include safety, literature searching, equipment setup and use, experimental setup and design, teamwork, and problem solving, as well as interpreting experimental results.
- Strong oral and written communication skills.
- A high level of academic performance across all courses (consistently in the upper 25% of most classes).
- Completion of at least 75% of the chemical technology courses required for the certificate or degree program by the end of the term when nominated.

Students will receive a certificate from ACS recognizing their achievement and an invitation to join ACS. Additionally, a press release with the names of the students and the programs will be submitted to the local press, unless otherwise requested. The award is sponsored by The Committee on Technician Affairs, the leader in the recognition of the chemical and process technician field as a profession. The award helps winners demonstrate their value to future employers. Presentation of the award has also inspired students to work to their full potential.

For further information, contact Blake Aronson at cta@acs.org, 1-800-227-5558, ext. 6108 or go to <http://www.chemistry.org/portal/a/c/s/1/acsdisplay.html?DOC=education%5ctechicians%5ccalendar%5cctwork.html>.

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For more information,
contact the Section office
Phone: (847) 647-8405
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ALMA CONFERENCE

The 29th Annual conference "Tools of the Trade" for the Association of Lab Managers (ALMA) will be occurring October 15-17, 2008 at the Conference Center at Waltham Woods, Waltham, MA. For the first time in the history of this conference, the event will be held in New England during the "leaf peeping" season close to all the cultural, historical and academic action of the area.

This conference promises to bring new management tools to everyone who attends. The workshops and conference cover a variety of topics of interest to all lab managers. And this year ALMA brings attendees a first - the opportunity to participate in team building activities where they will learn skills to share with colleagues back home - be sure to bring sneakers! There's even a tour of a state of the art R&D facility, and for those craving a bit of culture, a reception at a local museum.

The Boston area is a hot bed for new ideas that we hope to share with you in the comfortable and beautiful setting of the Waltham Woods Conference Center, just off Rte. 95 in Waltham, MA. Don't miss this opportunity to add to your "tool belt" and to network with other lab managers.

This year's theme of "Tools of the Trade" promises to bring skills to the experienced as well as the inexperienced technical managers. Below is a list of the topics and speakers:

- **Communication Across Cultures.** Mary Adams Viola, Tufts University.
- **Wait a Minute! Hear me out....** Daniel J. Schneck, Virginia Tech.
- **Going Paperless - Converting from Paper Forms to an Electronic Laboratory Notebook for Routine Analyses.** Dale Seabrooke, Labtronics, Inc.
- **Results of Pilot Trial with Electronic Laboratory Notebooks,** Norm Lucas, Air Products and Chemicals, Inc.
- **Becoming an Effective Mentor.** John Ford, Project Solutions.
- **The Leadership Challenge: Getting Things Done in White Water.** Samuel H. Liggero, AirPrint Networks.
- **Creating Innovative Space.** Robin de la Parra, Millipore Corporation.
- **Can Anyone Document Processes?** Scott Helmers, Harvard Computing Group, Inc.
- **Management the Hard Way...A Scientist in the King's Robes.** Mike Neag, ICI TechDirect.

Prior to the start of the conference,

there will be multiple workshops giving managers the chance to learn "best practices" from experienced laboratory managers in a small classroom setting on the following subjects:

- **Applying Lean Principles in the Analytical Laboratory.** Derek Lake and David Zoller, SABIC Innovative Plastics
- **Essentials of Laboratory Safety.** Wayne Collins, Agilent
- **Leadership for the Twenty-First Century: What is Your Style?** Alan Cabelly, Portland State University
- **Maximizing Efficiency and Efficacy in the Global Analytical Laboratory.** Jan Damm and Alexander Debets, Organon
- **The Analytical Laboratory in a Regulated Environment.** Tony Montana, Garden State Nutritionals
- **Practical Management of the Modern Analytical Laboratory.** Claude Luchesi, Northwestern University
- **Talent Management in the Lab: How Do You Get the Most Out of Your Workers.** Alan Cabelly, Portland State University
- **Influence Without Authority- So Logic Won't Work...Now What Do You Do to Influence Difficult People?** Mary Adams Viola, Gordon Institute, Tufts University

On the last day of the conference, there will be a three hour team building exercise, "Exploring the Dynamics of Teamwork" which will bring into action multiple concepts of project management: planning, implementing, resource management, communication, leadership, problem solving, conflict management, change management, execution and quality. Each attendee at the conference will have the opportunity to participate in three distinct team-oriented exercises during this session. At the end of the exercises, there will be a debriefing session to discover the lessons learned during the exercises and discussions focused on how these lessons can be applied back at work.

If you need more information and/or would like to register please go to www.labmanagers.org

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!

DID YOU KNOW?

Egyptians were the first to make bricks and concrete. In 3000 B.C., Egyptians mixed mud and straw to produce this hard substance to make their homes and the Great Pyramids.

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A NEW PODCAST FOR YOUNG LISTENERS

The ACS Office of Communications has launched Bytesize Science, an educational, entertaining podcast for young listeners. Like the flying car, Anglia, in the Harry Potter films, Bytesize Science transports kids, teachers, and other listeners into a real-life world realm where science is the enchantment. Bytesize Science translates cutting-edge scientific discoveries from ACS' 36 peer-reviewed journals into stories for young listeners about science, health, medicine, energy, food, and other topics. It also includes content from Chemical & Engineering News. Contact 202-872-4400, m_bernstein@acs.org, or go to www.acs.org and search keyword "bytesize science".

LOCAL STUDENTS QUALIFY FOR THE 2008 USNCO STUDY CAMP

The Chicago Local Section of the American Chemical Society announced the names of two outstanding high school chemistry students, Ari Frankel (Chicagoland Jewish High School) and Michael Tarczon (Glenbrook South High School), to become members of the U.S. National Chemistry Olympiad team. Each student attended the U.S. Chemistry Olympiad study camp in Colorado this past June. Ari and Michael are among the top twenty students from the USNCO National Exam who qualified to attend the USNCO Study Camp in Colorado. The top four students at the U.S. Study Camp will move on to represent the U.S. at the International Chemistry Olympiad Competition in Budapest, Hungary.

Congratulations to those ACS Chicago Section students who scored in the top 150 (Honors ranking) and top 50 (High Honors ranking) on the National USNCO Exam held at Loyola University.

Honors:

Adam Hasz, Schaumburg High School
Richard Kahn, Chicagoland Jewish HS
Sarah Shareef, IMSA

High Honors:

Vamsi Aribindi, Naperville North HS
Chris Ell, Loyola Academy
Karen Sittig, Deerfield High School
Michael Tarczon, Glenbrook South High School
Ari Frankel, Chicagoland Jewish HS

Special thanks to Dr. David Crumrine and Loyola University for hosting the 2008 Local and National USNCO Exam.

AMI LEFEVRE

2008 DIRECTORY OF EXPERIENCE OPPORTUNITIES

Each year, the ACS Experiential Programs in Chemistry (EPiC) activity produces the Directory of Experience Opportunities. This valuable online resource lists internships, co-op programs, summer work, and fellowships in academia, industry, and government, including positions throughout the U. S. and abroad.

Go to www.acs.org to search for positions. For more information or to list a program in the on-line edition of the Directory, e-mail epic@acs.org.

ACS COURSE INSTRUCTORS NEEDED

The American Chemical Society is seeking instructors who are excellent teachers as well as scientists to conduct 2-day short courses to audiences of professional chemists.

Qualifications:

- Must be available 3-6 times a year to travel and teach the course
- Must develop your own course materials, copies of which will be provided to your students (ACS will produce these copies)
- Course presentations must be made in PowerPoint or a similar electronic format
- Willingness to teach your course on-site at private company locations (as an in-house course) is preferred

We are also seeking instructors to teach webcast courses. These instructors must be dynamic speakers with a demonstrated comfort level with current technology. Unlike the classroom instructors, no travel is required for webcast instructors.

ACS course instructors are paid an honorarium every time they teach, and all travel expenses will be reimbursed.

Becoming an ACS course instructor is an ideal opportunity for scientists in industry as well as academia and will make a great addition to a résumé.

We are seeking instructors for the following subjects:

Food Chemistry
Computational Chemistry/Chemometrics
HPLC/GC
Innovation
Surface Chemistry
LC/MS, GC/MS
Interpretation of Mass Spectra
Process Chemistry
NMR Interpretation
Chemistry for Biologists/Biology for Chemists
Chemical Engineering
Protein Therapeutics (Vaccines, Biologics, Formulation, Nucleic Acid and Gene Therapy)
Pharmacology for Chemists
Medicinal Chemistry
Drug Metabolism
Structure-based Drug Design
Synthetic Organic Chemistry
Organic Chemistry
Crystallization/Polymorphism
Polymers
Methods Development/Quality Assurance

If you are interested in teaching one of the above subjects or if you have a subject area for a short course that is not written above, please contact Bryan Tweedy at b_tweedy@acs.org. You will be requested to fill out our proposal form and submit a resume and references.

VOLUNTEERS NEEDED!!

The organization **Recording For the Blind and Dyslexic** is in need of people with backgrounds in chemistry or biochemistry who would be willing to spend two or three hours a weeks recording texts for use by, as the name implies, blind or dyslexic students. If you are interested, call Nat Meyer at the Chicago office 312-236-8715, ext 213 or e-mail him at nmeyer@rdbd.org. It is not necessary to be rich or good-looking, and the work itself is very rewarding.

ACS FELLOWSHIP PROGRAM – CALL FOR APPLICATIONS

For more than 30 years, the American Chemical Society (ACS) has sponsored public policy fellows to work on Capitol Hill or in the ACS Office of Legislative and Government Affairs.

The fellows begin in September with a four-week orientation program organized by the American Association for the Advancement of Science (AAAS). During this orientation, they begin a search for work in offices on Capitol Hill.

ACS fellows gain first-hand experience with science policy-making, federal research funding, regulatory rule making, and the impact science has on decision-making. They also offer scientific and technical expertise to the government and forge links between the scientific and government communities.

The congressional and science policy fellows have had much success in bringing sound science advice to congressional offices. In fact, a third of them continue to work in the scientific and policymaking communities after their fellowships end.

The 2008-2009 fellowship selection process has ended; however, ACS is encouraging experienced chemical professionals and new Ph.D.s (degree needs to be earned by September 2009) to apply for the 2009-2010 fellowships. The application deadline is December 31, 2008. If you have any questions about the program or would like to contact former fellows, please contact the ACS Office of Legislative and Government Affairs at (202) 872-4386, or congfellow@acs.org.

ACS PODCASTING SCIENCE FOR MEMBERS & PUBLIC

ACS members have the opportunity to share exciting, cutting-edge scientific discoveries with their children, local science teachers, museums, libraries, and other venues through a podcast launched in 2007 by the ACS Office of Communications (OC). The science podcast reports on the latest studies published in the ACS journals to a broad public audience at no charge.

The podcast, *Science Elements*, is available on iTunes at http://chemistry.org/science_elements.html. It describes research reported in ACS's prestigious suite of 36 peer-reviewed scientific journals and Chemical & Engineering News. These journals contain about 30,000 scientific reports from scientists around the world each year. The reports include discoveries in medicine, health, nutrition, energy, the environment and other fields that span science's horizons from astronomy to zoology.

Science Elements makes information regarding discoveries that improve peoples' lives more widely available. The podcast draws on an Office of Communications product, PressPac, which initially was developed to assist science journalists in researching and reporting news.

The podcaster for *Science Elements* is Steve Showalter, a chemist at the U. S. Department of Energy's Sandia National Laboratories in Albuquerque, N.M. Showalter's work at Sandia focuses on the design and development of new batteries. "As an active member of the ACS since 1987, I view these podcasts as part of a broader commitment to improving public understanding of chemistry," Showalter said. He also works toward that goal as a member of the ACS Committee on Public Relations and Communications and as a counselor for the Central NM Section, ACS. Podcasting is an increasingly popular way of accessing news, information, and entertainment content from the Internet. The term was derived from Apple's "iPod," a portable digital audio and video player, and "broadcasting." Podcasts allow users to subscribe to a "feed" and receive new files automatically whenever posted to the Internet. For more information, contact the ACS Office of Communications at newsroom@acs.org.

NEXT ISSUE is
for the
October 17
Basolo Medal Award

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://chicagoacs.org>, 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 4,800 ACS members who reside in the Chicago area (northeast Illinois and northwest Indiana). Only you can make it work for you by being involved. But you can also make it fail by not being involved. I look forward to hearing from you.

DAVE CRUMRINE
CHICAGO SECTION CHAIR

WCC Article Authors Needed

The Chicago Section's Women Chemists Committee has a project to highlight women, both current and historical, and topics of interest to women. The project is called the "WCC Column" in the *Chemical Bulletin* and the project has been very successful.

We invite anyone, women or men, to join us in this endeavor of writing an article for the column. The article needs to be about 500 words long and will also be put on the Chicago Section website. The author also needs to design a poster for the corresponding monthly meeting. Our office manager, Gail Wilkening, will help with the poster, which can be primarily a large font version of what you wrote, if you wish. We welcome new authors and those who have already discovered what a pleasure this project is. Whether you interview a current chemist or research an historical chemist on the web, please join us in this stimulating activity.

CO-CHAIRS MARGY LEVENBERG
AND SUSAN SHIH

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 4,800 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	\$700
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Business Card	3.5" wide x 2" depth	\$95

We accept ads sent in jpg, tif, pdf, or quark formats. For more information, contact chicagoacs@ameritech.net or call 847-647-8405. Fax insertion orders to 847-647-8364.

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CALENDAR

September 11: Chicago Section's Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at 847-647-8405 for information.

September 26: Chicago Section's Education Night jointly with Loyola University. **See this issue.**

October 8-11: The 43rd Midwest Regional ACS Meeting (MWRM 2008), Ramada Inn, Kearney, Nebraska. The theme is "Pioneering the Future through Chemistry". For further information, go to the meeting's website at <http://mwrm2008.unk.edu/index.htm>

October 13: The International Coatings Expo: ICE 2008, Chicago, IL. For information, call (610) 940-0777. Website: www.coatingstech.org.

October 13-15: The Chicago Section Society of Plastics Engineers will have the Vinyltec Conference at the Crowne Plaza Chicago O'Hare. For more information, go to www.SPEChicago.org.

October 15-17: Association of Laboratory Managers (ALMA) 29th Annual Conference, The Conference Center at Waltham Woods, Waltham, MA (Boston area). Visit www.labmanagers.org for further details.

October 16: Chicago Section's Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at 847-647-8405 for information.

October 17: Basolo Medalist Lecture at Northwestern University and dinner at Zhivago's.

November 13: Chicago Section's Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at 847-647-8405.

November 19: Stieglitz Lecture and Chicago Section Dinner Meeting jointly with University of Chicago.

December 4: Chicago Section's Board Meeting, 7173 N. Austin Ave., Niles, IL. Call the Section office at 847-647-8405 for information..

December 12: Chicago Section's Holiday Party jointly with the Chemists' Club and Iota Sigma Pi.

With this issue, the Chemical Bulletin is now distributed in electronic format. It is therefore important for us to have your current and working E-mail address. If your E-mail address changes, please send your new one to the section office (chicagoacs@ameritech.net).

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