

theCHEMICALbulletin

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SEPTEMBER • 2006

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Joint Meeting with the Chicago Chemists Club

Education Night

FRIDAY, SEPTEMBER 29, 2006

Benedictine University
Krasa Center
5700 College Road
Lisle, IL 60532
630-829-6000

DIRECTIONS TO THE MEETING:

From Chicago: Take I-294 or I-290 to I-88. Go west on I-88 to I-355 south. Take the Maple Avenue exit west (right turn) for about two miles. The campus is on the left side. Look for signs. Turn left (south) on College Road and proceed about one block. Turn right into the campus, and then follow the campus road to the left, continuing past the water tower and into the parking lot next to the athletic field and the KRASA CENTER/Student Union.

From the north or south suburbs:

Take the I-355 North-South Tollway to the Maple Avenue exit. The University is about two miles west of the Tollway. The campus is on the left side. Look for signs. Turn left (south) on College Road and proceed about one block. Turn right into the campus, and then follow the campus road to the left, continuing past the water tower and into the parking lot next to the athletic field and the KRASA CENTER/Student Union.

From the south: Take I-55 to the I-355 exit. Take the Maple Avenue exit west to the University. The campus is on the left side. Look for signs. Turn left (south) on College Road and proceed about one block. Turn right into the campus, and then follow the campus road to the left, continuing past the water tower and into the parking lot next to the athletic field and the KRASA CENTER/Student Union.

By train: Metra, the Chicago area commuter rail system, runs from Lisle to

downtown Chicago and back seven days a week. For train schedules, call (630) 968-3916 or visit www.metra.com. Cab service is available for the two-mile trip from the station to campus.

PARKING: Free

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

TOPICAL GROUP: 5:15 - 6:15 P.M.

"Using Chemistry as a Bridge to Peace in the Middle East" presented by **Dr. Zafra M. Lerman, Distinguished Professor of Science and Public Policy, and Head of the Institute for Science Education and Science Communication, Columbia College Chicago** (See page 2 for more information)

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) or **website** (<http://chicagoacs.org>) by noon on Wednesday, September 27. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

MENU: Dinner Served Buffet Style: Garden Salad with choice of dressing; Choice of Chicken Teriyaki, Whitefish, or Vegetarian Spinach Lasagna; Rolls and butter; Dessert: Assortment of fruit pies; Choice of beverage

The cost is \$20 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$22. The cost to students and unemployed members is \$10. Seating will be available for those who wish to attend

the meeting without dinner.

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

GENERAL MEETING 8:15 P.M.

General Meeting Speaker



Dr. Paul Kelter, Professor and University Distinguished Teacher/Scholar, University of Illinois at Urbana-Champaign

Title: "The Lessons I've Learned from 25 Years of Teaching"

Abstract: I will discuss with you the
(continued on page 2)

NOTICE TO ILLINOIS TEACHERS

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

(continued from page 1)

philosophical basis, and practical outcomes, of my teaching mostly large lecture classes in first-year chemistry for the past 25 years.

Speaker's Information: Dr. Paul Kelter has been the University Distinguished Teacher/Scholar since 2004 and the Professor and Director of General Chemistry at the University of Illinois at Urbana-Champaign since 2003. Prior to joining the faculty at UIC, he taught at the University of North Carolina-Greensboro, the University of Nebraska-Lincoln, and the University of Wisconsin-Oshkosh, where, among other duties, he was the Director of the Science Outreach Office.

Paul received his B.S. in Chemistry in 1976 from the City College of the City University of New York and his Ph.D. in Analytical Chemistry from the University of Nebraska-Lincoln in 1980. In 1981, he did postdoctoral work at the University of Georgia with the late L.B. Rogers.

He has received numerous educational honors and awards including: Distinguished Teacher Award(s) from the University of Wisconsin-Oshkosh (1990) and from the University of Nebraska (1999); Regional Award for Excellence in Science Education from the Wisconsin Society of Science Teachers (1990); Certificate of Recognition for Contributions to Students from the Teaching Council and Parents Association, University of Nebraska-Lincoln (1995-1999); and the University of Illinois' University Distinguished Teacher/Scholar (2004). He has been a Fellow of the American Association for the Advancement of Science, Education Division since 2004 and was recently elected to be a Fellow of the National Center for Supercomputing Applications.

Paul is the lead author or co-author of several textbooks, study guides, laboratory manuals and other related publications and has given a host of oral pre-

Successful Women in Chemistry Book

If you do not have your copy of the ACS National's Women Chemists Committee (WCC) book "Successful Women in Chemistry: Corporate America's Contribution to Science," it is not too late to order this ACS symposium series, which highlights the careers of some of today's successful women in the scientific field. To order your book, call the Oxford University Press at 1-800-451-7556 for information. Please be sure to reference the ISBN number 0-8412-3912-6.

TOPICAL GROUP SPEAKER



Dr. Zafra M. Lerman

Talk Abstract: Where politicians have failed to ensure the safety of the world, chemistry might hold the key.

It is clear to every knowledgeable person that the biggest threat to the survival of Planet Earth is the continued unrest in the Middle East.

The idea to gather top chemists from all the Middle East countries to meet together under the same roof, discuss issues of common concern (e.g. environment, water, science education, energy, nanotechnology), and collaborate to formulate solutions to address these concerns will help to achieve peace in the Middle East.

Two conferences for Middle East scientists have been held on the island of Malta (the first in 2003, the second in 2005) with six Nobel laureates delivering plenary lectures in each conference and leading joint workshops on issues of concern to the region. In his plenary lecture, Nobel Laureate Yuan T. Lee stated: "Borders are only lines on a map. Nature does not recognize borders. Only collaboration will solve the problems of the region."

The two conferences, outcomes from the two conferences, and plans for the third conference will be discussed in this lecture.

Speaker's Biography: 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 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 few years to work with Chicago inner-city teachers, parents and students.

She received 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). 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 Charles Lathrop Parsons Award in recognition of outstanding public service to chemistry. The Royal Society of Chemistry in England presented 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. She has also been featured by newspapers, magazines, radio and television stations around the world.

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

SAFETY IN ACADEMIC CHEMISTRY LABORATORIES, VOLUME 1, NOW AVAILABLE IN SPANISH.

The ACS Committee on Chemical Safety (CCS) is pleased to announce that Volume 1 of its flagship publication, *Safety in Academic Chemistry Laboratories* is now available in Spanish. *Seguridad en los Laboratorios Químicos Académicos*, 7ma Edición, Volumen 1, is currently available in electronic Acrobat PDF format at: http://membership.acs.org/ccs/pubs/SACL_Spanish.htm

KEN FIVIZZANI
ENVIRONMENTAL & LABORATORY
SAFETY COMMITTEE

"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.

A Silver Tarnish Dip

Kids, how would you like to make your own silver polishing dip? Ask your adult partner if they happen to have some older silverware, trays, serving ware, jewelry etc. around the house. Is it nice and shiny or is it dull and dark? As silver (elemental Ag) is exposed to the small amounts of hydrogen sulfide (H_2S) in the air it will "tarnish". This layer of tarnish is silver sulfide (Ag_2S) that can be removed without polishing and scrubbing by simply dipping into a non-toxic electrochemical dip. Another big advantage to using a dip is that the liquid can reach places a polishing cloth cannot.

First, line the bottom of the sink or a glass baking dish with a sheet of aluminum foil. Then have your adult partner fill the foil-lined container with steaming hot water. Add salt (sodium chloride, NaCl) and baking soda (sodium bicarbonate, Na_2CO_3) to the water. Some recipes call for 2 tsp baking soda and 1 tsp salt, whereas others call for 2 tablespoons each of baking soda and salt. Obviously the exact amounts do not matter, so just add a bit of each. Drop the silver items into the container so that they are touching each other and resting on the foil. You should actually be able to watch the tarnish disappear!

Leave heavily tarnished items in the solution for as long as 5 minutes. Otherwise, remove the silver when it appears clean. Rinse the silver with water and gently buff it dry with a soft towel. Ideally, the silver should be stored in a low-humidity environment. Placing a container of activated charcoal or a piece of chalk in the storage area (to soak up moisture) can minimize future tarnish. Also, wrapping the silver items to protect from air seems to help.

Silver Tips:

1. Use care when polishing or dipping silver plated items. It is easy to wear away the thin layer of silver and cause more harm than good through over cleaning.
2. Minimize exposing your silver to foods

and other items that contain sulfur such as mayonnaise, eggs, mustard, onions, latex, and wool because the sulfur will cause corrosion.

3. Using your silver flatware or wearing silver jewelry will actually help to keep them free from tarnish.

Reference:

Anne Marie Helmenstine at <http://chemistry.about.com/cs/howtos/ht/silverdip.htm>

EDITED BY K. A. CARRADO,
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All past "ChemShorts": <http://membership.acs.org/C/Chicago/ChmShort/kiindex.html>



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ANALYSIS FOR THE CHEMICAL ELEMENTS

DEADLINES FOR CHEMICAL BULLETIN

Please submit all *Chemical Bulletin* copy to the editor before the deadlines listed below for each issue. Articles can be emailed to the editor, Cheryl Bradley, cbrad1027@aol.com.

Since we like the Bulletin to be as timely as possible, we need the lead time indicated. You can help by early planning and submission of your information or articles.

2006 Issue	Deadline
October	August 25
November	September 22
December	October 13

September, 2006 Vol. 93, No. 7. Published by the Chicago Section of The American Chemical Society, Editorial Staff: Cheryl Bradley, Editor; Fran Kravitz, Copy Editor; Fadwa Al-Tajer and Richard Treptow, Proofreaders; Frank Jarzembowski, Publications Business Manager. Address: 7173 North Austin, Niles, Illinois 60714; 847/647-8405. Subscription rates: \$15 per year. Frequency: monthly-September through June.

ATTENTION: PERSONS INTERESTED IN BECOMING SECOND CAREER CHEMISTRY TEACHERS

The Hach Scientific Foundation would like to offer second career chemical education scholarships to chemists. The Hach Scientific Foundation is a private multi-million dollar foundation dedicated to chemistry and chemical education. It is providing scholarships across the country to chemists interested in pursuing a Masters in education and teachers certificate. For more information, visit: <http://www.hachscientificfoundation.org/teachers.shtml>

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JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on **Friday, September 29 at 5:00 p.m. at Benedictine University, Krasa Center**. 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.

DID YOU KNOW?

The ACS Education Division provides programs and activities that promote lifelong chemistry education, professional activities, and scientific matters of interest to chemists and chemical engineers worldwide.

To find out more about ACS Education programs, visit the *ChemunityNews* FAQs, or write to us at education@acs.org.

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WCC COLUMN

Members of the Chicago Section's Women Chemists Committee (WCC) are developing outreach plans for Chicago Area section members and the community. These plans include a column in The Chicago Bulletin covering topics such as networking, career development, and vignettes of women in chemistry. This month's topic is about **Dr. Kristin Bowman-James**.

Dr. Kristin Bowman-James is currently the Professor of Chemistry at the University of Kansas in Lawrence, Kansas and is Project Director of Kansas NSF Experimental Program to Stimulate Competitive Research (EPSCoR). Kristin has been at the University of Kansas for 31 years and is currently teaching, doing chemical research, directing her post-docs and graduate students, and administrating the Kansas EPSCoR. Kristin also serves on a number of administrative panels and encourages women faculty members.

At the University of Kansas, Kristin has held many positions. She started teaching chemistry and doing chemical research. She later became Head of the Chemistry Department and found many more interesting things to do.

This Philadelphia native received her undergraduate and Ph.D. degrees from Temple University. She followed this with a postdoctoral appointment with Dr. Daryle H. Busch at Ohio State University. Kristin says she entered the field of chemistry because she liked and loved science. She was thinking about astronomy, until her college freshman advisor recommended that she take honors chemistry. It was love at first sight. Her freshman year in college she had a job as a "lab prep girl." The next year she held one research position and then the next years she had different research projects in both theoretical and synthetic inorganic chemistry. Graduate school was just a natural for her.

When asked what she enjoys most about her work, she said two things! First the challenge of doing research in a field that was non-existent 30 years ago. She has watched this field grow, and there is now a community of chemists in the field of anion recognition. Second she enjoys helping people get somewhere -- this includes good students, post docs, and other women faculty members. She is truly a mentor for the younger women.

When asked her philosophy about chemical education she replied, "I love

conveying to the students that chemistry is integral to our everyday world and bringing the reality and importance to the students' attention. Students need to feel comfortable and to learn chemistry in a non-threatening manner. Basically it boils down to letting the students know **THEY CAN DO IT!**" She stated, "It is important to have women involved in academia because without women we are only utilizing 50% of the workforce. Also women bring a different perspective to chemical puzzles." She feels strongly that we need to serve as role models and attract more women into the chemical workforce so that the students can have additional role models to follow.

Bowman-James' research is in the field of supramolecular chemistry, particularly involving synthetic macrocycles as ligands for both transition metals and anions. She is especially recognized for contributions to the field of anion coordination chemistry, which is involved with the design, synthesis, and characterization of receptors for anionic species. Some of her early efforts in this area involved utilizing relatively simple polyammonium macrocycles as enzyme mimics for ATPases and phosphoryl transfer proteins. More recent research in the Bowman-James group has been directed toward elucidating structural motifs preferred by small anions such as the halides and oxoanions. Findings indicate striking similarities between the well-established structural and binding patterns in transition metal chemistry and those of anion hydrogen-bonded 'coordination' complexes and provide additional insight to the interaction of anions with synthetic hosts.

Dr. Bowman-James is a co-editor of the first book devoted exclusively to anion chemistry, *Supramolecular Chemistry of Anions*, published by Wiley-VCH. She reports that she does not count her publications because the number is constantly changing.

Dr. Bowman-James has been active in the American Chemical Society and served in many roles at the local and national level. Some of her positions on the national level have included serving as Membership Chair, Secretary of the Inorganic Division, and her current position as an associate of the Women Chemists Committee. She has also served on the Advisory Board of the Committee for the Advancement of Women Chemists (COACH), and is a lifetime member of Iota Sigma Pi.

Her future plans are to continue to work the long hours in chemistry that she is currently doing. Her mentor still comes in every day at the age of 78 and is still very active in chemistry. She

feels that it is important for everyone (regardless of gender, color, or country of natural origin) to do what he or she wants to do. All talented persons should be welcomed to enter the interesting field of chemistry and contribute.

Many of you are familiar with Dr. Bowman-James as an important inorganic chemist. Did you know that in her spare time she enjoys drag racing? She has participated with her husband for the last 15 years and that includes driving as well as being a member of the crew.

In recognition of her contributions to chemistry she received the Iota Sigma Pi Award for Professional Excellence (2002), the Kansas Dolph Simons Sr. Award for Research Achievement (2002), and the Midwest Award for Research in Chemistry provided by the St. Louis Section of the ACS (2003). She was the first woman Chair of the Chemistry Department at the University of Kansas. She has been active in encouraging the careers of women in chemistry and received the Midwest Regional Award for Diversity presented by the ACS Women Chemists Committee (2002). This is a person that one should watch to see when she will receive another honor or be pictured again in *Chemical and Engineering News*.

ANNE T. SHERREN

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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://chicago.acs.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.

BARBARA MORIARTY
CHICAGO SECTION CHAIR

The Chicago Section's
e-mail address
is
chicagoacs@ameritech.net

BACKGROUND OF BENEDICTINE UNIVERSITY

U.S. News & World Report's 2006 rankings listed Benedictine University as one of the top universities in the Midwest Region. The magazine also ranked Benedictine University sixth in the region for campus diversity.

It is located in DuPage County's thriving research and development corridor, just four miles from downtown Naperville and 30 miles west of Chicago. It is home to more than 2,300 undergraduates and nearly 1,100 graduate students.

Benedictine University offers a wide selection of academic majors and programs from which to choose.

College of Science

The College of Science is comprised of the undergraduate departments of Biological Sciences, Chemistry, Computer Science/CIS, Mathematics, and Physics/Engineering. The College is housed in the Birck Hall of Science, built in the year 2000 with state-of-the-art laboratories and solvent and materials handling facilities.

Benedictine has a reputation for excellence in the sciences. The US Congress Office of Technology and Advancement, the NEH & the NSF

have all recognized Benedictine University as one of the most productive institutions in the country for the rate that its graduates go on to earn doctoral degrees in all fields of science. The University has been recognized by the Howard Hughes Medical Institute in the form of grants for science programs. Benedictine University has been ranked at or near the top in Illinois for the percent of graduates who earn degrees in sciences. 90% of participants in the summer undergraduate research program have matriculated to doctoral programs in the sciences. Approximately two-thirds of Benedictine graduates who apply to medical school are accepted.

The goals of the College are to provide students with cutting-edge technology, to provide students with collaborative, interdisciplinary, laboratory-based science training, and to integrate science education and undergraduate research. Students learn science by doing science. By the time students graduate from Benedictine, they are more experienced and better prepared for graduate school than science majors who may have gone to some larger schools.

(See also the chemistry department's website http://www.ben.edu/programs/science/physical_sciences.asp)

The New Frontier for Proteomics



Hitachi has announced the release of the NanoFrontier, a new LCMS system designed, manufactured, and serviced by Hitachi.

Hitachi's NanoFrontier includes the Hitachi nLC, a true splitless low-flow HPLC, based on the same design and components as Hitachi's traditional HPLC, which has been a leader in reliability and performance for over 30 years in the market. Also offered are Hitachi's workhorse UV-Vis and Fluorescence spectrometers.

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DR. PERCY L. JULIAN, "FORGOTTEN GENIUS"

In 1999, the Committee on Minority Affairs (CMA) presented a program in observance of the 100th Anniversary of the birth of **Dr. Percy L. Julian**, the eminent African American organic medicinal chemist. About that same time, the management team of NOVA, which produces award winning science and technology television films for PBS station WGBH in Boston, decided to produce biographies of four eminent, historically significant scientists. They immediately selected Einstein, Galileo and Madame Curie. Upon hearing about the CMA program scheduled for March 22, 1999, Steve Lyons and Llew Smith, NOVA producer/directors, made plans to be in Anaheim for the 217th ACS National Meeting. After also attending celebrations and additional observances at DePauw University, where Dr. Julian was honored with a National Historic Chemical Landmark for his physostigmine synthesis, and his hometown of Chicago sponsored by the Chicago Section, there was no doubt as to who would be the subject of the fourth film biography.

Dr. Julian's achievements are legendary. After receiving his Ph.D. from the University of Vienna in 1931, he went on to synthesize the glaucoma drug physostigmine, serve as director of fine chemicals and food research for the Glidden Co., develop processes for the synthesis of steroid intermediates leading to cortisone and female hormones, and develop processes for the isolation from soybeans of pure soya protein, phosphatides and lecithin for use as food products.

The soya protein was requisitioned by the Navy for use in fighting fires aboard ships and planes, saving thousand of lives. Dr. Julian left Glidden in 1954 to establish his own laboratory, which he sold to Smith, Kline and French in 1961 for \$2.5M. Along with having consulting arrangements with several major pharmaceutical companies, he went on to establish another research laboratory which he headed until his death in 1975. Dr. Julian had more than 100 patents and 60 scholarly publications. He received 19 honorary doctorates and numerous other honors and awards. In 1998, he was recognized by *Chemical and Engineering News* as one of the "Top 75" Contributors to the Chemical Enterprise. He was honored by the U.S. Postal Service by the issuance of a commemorative stamp in the Black Heritage Series in 1993.

The film has now been made by NOVA/WGBH, with some critical and timely support from the American Chemi-

cal Society. In a very real sense, we will come full circle when we gather in San Francisco at the 232nd ACS National Meeting to celebrate the making and showing of the film, titled "Forgotten Genius." There will be a full day symposium, "Dr. Percy L. Julian: Scientist, Humanist, Educator, Entrepreneur, and Inspirational Trailblazer," which will conclude with 30 minutes of film excerpts. The film is scheduled to be shown nationally on Public Television on February 6, 2007. The symposium is a Presidential Event, sponsored by the Committee on Minority Affairs, with significant collaboration with the Board Task Force on Percy Julian, and numerous cosponsors. The symposium is scheduled for Monday, September 11, beginning at 8:30 am. All are invited to join in. See *Chemical & Engineering News* and chemistry.org for further important details as to location and related events.

JIM SHOFFNER, CHAIR, PERCY JULIAN SYMPOSIUM COMMITTEE
LINETTE WATKINS, CHAIR, COMMITTEE ON MINORITY AFFAIRS

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ALMA E-NEWS

From the Lab and Into the World

One of the breakthrough ideas for 2006 selected by the *Harvard Business Review* (Feb 2006 issue) was the trend of science moving from the lab into the everyday world. This is referred to as Åscience in the wildÅh. For the mutual protection of both groups, science has been conducted somewhat isolated from the general population for centuries. Now, some of the most interesting problems (and dilemmas) for society are bringing the two groups together through necessity.

This point was driven home by Jim Bradford, Director of AOAC International, at the annual ALMA conference when he described how methods developed in the lab for homeland security failed when taken into the field. Methods can no longer be validated in the controlled environment of a lab but must go "Into the wild" where they are actually used. An outfall of this trend will be exciting new technologies that will drive alternatives to our current lab-centered service model. And, of course, we can only speculate on the challenges that we will face as we manage these new organizations. The only thing that is certain is that it is not going to get any easier.

If you have any comments, cost saving suggestions, or opinions, contact me at the email address below.

Past ALMA (Analytical Laboratory Managers Association) e-News articles by Dr. Wayne Collins, a former ALMA President, are available at the website <http://www.labmanagers.org/>. This one is from the April 2006 edition.

WAYNE COLLINS
wayne.collins@thermo.com

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

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!

CHEMISTRY DEPARTMENT WEBSITES

Looking for information about the chemistry departments of a particular college? Here are the websites of some of the colleges and universities in the Chicagoland area.

Benedictine University (Lisle)
http://www.ben.edu/programs/science/physical_sciences.asp

Chicago State University (Chicago)
<http://www.csu.edu/ChemistryAndPhysics/>

Concordia University (River Forest)
http://www.curf.edu/academics/college_of_arts_and_sciences/departments/natural_sciences_and_geography/index.asp

DePaul (Chicago)
<http://condor.depaul.edu/~alchemy/>

Dominican University (River Forest)
http://www.dom.edu/rcas/majors.asp?program_id=13&schnav_id=2109&tschnav_id=1025

Elmhurst College (Elmhurst)
<http://www.elmhurst.edu/~chm/>

Governor's State University (Chicago)
<http://www.govst.edu/cas/>

Harper College (Palatine)
<http://goforward.harpercollege.edu/page.cfm?p=1430>

Illinois Institute of Technology (Chicago)
http://www.iit.edu/%7Ebcps/data_base/search.cgi/Chemistry:/front_end/index

Lake Forest College (Lake Forest)
<http://www.lakeforest.edu/academics/programs/chem/default.asp>

Lewis University (Romeoville)
<http://www.lewisu.edu/academics/chemistry/>

Loyola (Chicago)
<http://www.luc.edu/chemistry/>

North Central College (Naperville)
http://www2.noctrl.edu/academics/departments/chemistry/departmentsite/chm_pages/chm_main.htm

Northeastern Illinois University (Chicago)
<http://orion.neiu.edu/~chemdept/>

Northwestern (Evanston)
<http://www.chem.northwestern.edu/>

Olivet Nazarene University (Bourbonnais)
<http://chemistry.olivet.edu/>

Roosevelt University (Chicago)
<http://www.roosevelt.edu/cas/bcps/c-hem-all.htm>

Saint Xavier (Chicago)
<http://www.sxu.edu/chemistry/>

University of Illinois at Chicago
<http://www.chem.uic.edu/>

University of Chicago (Chicago)
<http://chemistry.uchicago.edu/>

Wheaton College (Wheaton)
<http://www.wheaton.edu/chemistry/>

ACCA CHEMISTRY COURSE/SEMINAR

Once again this fall semester (2006), the Associated Colleges of the Chicago Area (ACCA) will be sponsoring a series of chemistry lectures. This year, the title of the series is "Forensic Chemistry," and once again, Olivet Nazarene University (ONU) will be offering graduate credit to anyone who already has a bachelors degree, provided he/she has not previously received credit during one of the years when the course title was the same.

Although anyone is welcome to attend one or more sessions without taking the series for graduate credit, anyone wanting graduate credit through ONU should contact Dr. Douglas Armstrong at darmstrg@olivet.edu or at 815-939-5393.

The sessions will be held on ten Tuesday nights from Sept. 12 to Nov. 14, 7:00-9:00 PM at Benedictine University, Birk Hall of science, Room 112. The speakers and their affiliations, are as follows:

Date	Speaker/Affiliation
9/12	Jeane S. Brundage - Dupre
9/19	Peter T. Ausili/DEA
9/26	Robert Hunton/ISP
10/3	Kathy Davis/ISP
10/10	Frank Senese/ISP
10/17	Dr. A. Karl Larsen/ISP
	Harry Reed/ISP
10/24	Carol Jaross/ISP
	Heather Hanson/ISP
	Larry Olsen/ISP
10/31	Janet Girten/ISP
11/7	Michael Kopina/ISP
11/14	Patrick O'Neal/Coroner

Anyone taking this series for graduate credit will need to attend a certain percentage of the above sessions, and write a report/summary on each session attended. Contact Dr. Armstrong for details.

NEW GRADUATE PROGRAM IN QUALITY ASSURANCE & REGULATORY SCIENCE

The School of Continuing Studies, in collaboration with the Northwestern University Chemistry Department, is pleased to announce the new Master of Science in Quality Assurance and Regulatory Science (MQARS). The food, pharmaceutical, and biotechnology industries are facing an increasingly complex regulatory and compliance environment. This part-time, evening graduate program is designed to provide working professionals in the industry with the tools they need to be leaders in quality assurance and regulatory affairs.

Claude Lucchesi, retired Senior Lecturer at Northwestern University and the co-founder of ALMA (Analytical Laboratory Managers Association), will be teaching one of the courses in the ten-course program in the winter quarter. His course is called "Practical Laboratory Management."

For more information, visit www.scs.northwestern.edu/qars or call 847-491-3582.

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COMMENTS ON CHEMSHORTS FOR KIDS

The following are notes Katie Carrado, author of our ChemShorts for Kids column, has received this year.

Dear Ms. Carrado,

For the past two years, my children and I have attended Chemistry Day (at Loyola and DePaul) and have thoroughly enjoyed the opportunity to play Chemist-For-A-Day. It always inspires them to be Resident Kitchen Chemist. Although they are only 4, 6, 7, and 10, we talk about chemistry in so many of our daily activities: using heat to alter food or in candle making, how cleaning products work, color chromatography in their markers, etc.

Anyway, at the last Chemistry Day I picked up a hefty set of papers entitled "A Collection of ChemShorts For Kids". I'm using some of the ideas to help set up experiments for our upcoming home schooling conference in March. I hope you don't mind; just the opposite, I hope you're overjoyed that the children will be exposed to chemistry! I'm very excited about it, but maybe I've always been a science geek at heart.

I recently visited the ACS-Chicago Section website and found the ChemShorts on the web. I know of a home school newsletter that offers website info to parents, whether it's math, reading, history, language arts, or science. Would you mind if I pass along the ChemShorts website as a resource for home schooling parents? I personally don't have any control over whether the info is posted, but I'd like to offer it to the newsletter for possible publication. First, though, I wanted your permission.*

I look forward to hearing from you.

Warmly,
C. Maloney

*Note: We did give them permission to publish our website URL.

Kathleen,
Thank you for your Kids Chemistry site - I think it's one of the best sources for chemistry activities I've seen.

T. Bresee

one from England!

Hi,
WOW!! I came across your web page simply because I was looking for the "per-

fect bubble solution" for my three young children, and I just had to read through all your scientific experiments. I was hooked!! These are great simple experiments and have given me some wonderful excuses to spend more time with my children at home. Many thanks..a great job well done.

Kind Regards,

A. Blakeborough
England

from the *Chemical Bulletin* Editor...

Thanks, Katie, for all your time and effort to make ChemShorts for Kids such a fun, educational and regularly featured article of the *Chemical Bulletin*. Your dedication in writing these articles has made them a must-read item that our readers look forward to.

Cherlyn Bradley

ARE YOU UNEMPLOYED?

Are you seeking a better job? Are you looking to improve your career? The place to start is with your resume. That is the single tool that will get you an interview, illustrate your professional strengths, and show how you can improve your importance to your employer.

You can get help improving your resume through the Career Consultants. These are volunteers trained by the American Chemical Society to assist its members with writing resumes, contacting prospective employers, and providing tips on interviews.

There are several Career Consultants in the Chicago Section who are willing to meet with you and help improve your resume. **Simply call the Section office at 847-647-8405 and set up an appointment. Fifteen to thirty-minute sessions will be arranged at our monthly meetings.** Should you require more time arrangements can be made with your consultant to continue discussions by telephone, by e-mail or by additional face-to-face sessions. **You also can attend the Section's Job Club where you can network with other people having similar concerns.**

We are here to help. All you need to do is pick up the telephone and bring copies of your resume to the next monthly meeting.

PLEASE VOTE in the Section's election when you receive your ballot in the mail.

2006 BASOLO MEDAL GOES TO IVANO BERTINI

Northwestern University will honor **Professor Ivano Bertini**, Department of Chemistry, University of Florence, Florence, Italy, 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 Bertini will deliver the award lecture at the Northwestern University Technological Institute, Evanston, IL, on October 20, 2006.

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

SAMUEL DANISHEFSKY CHOSEN AS STIEGLITZ LECTURER FOR 2006

Samuel Danishefsky, Professor of Chemistry at Columbia University and Director of the bioorganic lab at Sloan-Kettering Institute for Cancer Research, has been chosen as the Stieglitz Lecturer for 2006. The Chicago Section has the responsibility for making the selection in alternate years with the University of Chicago Chemistry Department, and this is our year.

Professor Danishefsky is a world leader in the total synthesis of complex organic natural products and has received many awards for his achievements. He has done outstanding work at the emerging interdisciplinary field of chemical biology and his most recent publication involve the synthesis of a potential inhibitor of telomerase (see *Chemical & Engineering News*, January 23, 2006, p. 7). The lecture will be given on the evening of **Wednesday, November 15, which will be the date for the November section meeting.** Please mark your calendars and watch for more information regarding this interesting and informative lecture in the November *Chemical Bulletin*.

JIM SHOFFNER,
CHAIR, STIEGLITZ LECTURE COMMITTEE



Visit the
Chicago Section
at our new web address
www.ChicagoACS.org

ACS REGIONAL MEETING IN QUINCY

The 41ST Midwest Regional Meeting (MWRM) will be in Quincy, IL October 25–27 at the Oakley-Lindsay Center. Hotel accommodations have been arranged at two nearby hotels, the Hampton Inn and the Holiday Inn. For more information, visit the meeting website at <http://membership.acs.org/m/mwrm2006/index.htm>.

Abstract Submittal and Registration

The online abstract submittal program will be open until 5:00 PM Friday, October 6. Online advance registration is open until 5:00 PM Wednesday, October 10. Both may be accessed through the MWRM 2006 website, <http://membership.acs.org/m/mwrm2006/index.htm>. Visit the website often for periodic updates. This is an exciting year for regional meetings because in addition to having regional abstracts appear online on CAS, ACS Books will begin reviewing regional meeting papers for possible inclusion in their ACS symposium series.

Featured Topics

The meeting is seeking papers in the areas of analytical, inorganic, nmr, organic, physical, and polymer chemistry, biochemistry, chemical education and undergraduate research, and green chemistry. Please visit the meeting website for more details on planned programming.

Housing

MWRM 2006 has negotiated excellent rates at two Quincy hotels. Reservations for the Holiday Inn Quincy may be made by calling 217-222-2666 or 1-800-HOLIDAY, or www.holiday-inn.com/quincyil. Contact the Hampton Inn at 217-224-8378 or 1-800-HAMPTON.

IN MEMORY

Elaine Anderson, 1922 - 2006

Elaine Anderson, a long time active member of the Chicago Section, passed away at 84 on June 1. A memorial service was held for her at Covenant Village in Northbrook where she had resided for four years.

Elaine was born on April 3, 1922 to Ernest and Ruth Anderson. She has one sister, Trillin Anderson Ergdahl. Elaine attended Peterson grade school and Von Steuben high school in Chicago. She received a scholarship from the American Daughters of Sweden to go to the University of Chicago, where she received her Master's Degree. She then taught at Barat College while waiting for clearance to be a chemical researcher at Argonne National Laboratories. Later, she was employed at International Mineral and Chemical, the Portland Cement Company, and the Mystic Tape Division of the Borden Company.

Elaine received many honorary awards in her field of chemical research. She also was an active member of Iota Sigma Pi and Sigma Delta. She was a member of the Covenant Women at North Park Covenant Church and had been very involved with the Peterson Woods Association and the resident council at Covenant Village.

SECTION DUES

Members are urged to pay the \$15 Section dues when you get your annual ACS membership dues statement. The Section needs this revenue to help support its activities.

VOLUNTEERS NEEDED

The ACS Illinois Sections Cooperative State Fair Project needs volunteers for Community Day at Carson Pirie Scott in Aurora, Illinois.

- The date is **Saturday, November 11, 2006** at 970 Lake Street, Aurora, IL 60506.
- We will have a table to sell coupon booklets for \$5 each.
- Carson Pirie Scott provides our organization with coupon booklet at no charge. Our organization keeps the money for the State Fair project.
- Each booklet contains a \$10 coupon good on almost any merchandise item of \$10 or more (customers spend \$5 for the booklet and get \$10 back on their first purchase), eight 20% off coupons and offers for two great bonus items, available on Community Day only. All coupons are valid on top of the already low One Day Sale prices. It's a great day to shop!

Please come and shop and volunteer to help at the table to help raise fund for the State Fair project! Carson Pirie Scott is open from 7am to 11pm.

Thank you,
MARSHA ANNE PHILLIPS
TREASURER, ACS ILLINOIS SECTIONS COOP STATE FAIR PROJECT

DID YOU KNOW???

In an industry that is always under attack by environmental activist, it is nice to know that there is an easy way for each one of us to help protect the world around us. Earth 911 is a one-of-a-kind website for recycling anything, anywhere. Just log onto www.earth911.org, type in your zip code, and you can find the closest location to recycle anything you have!

This site also has tips to keep our air, land and waterways clean. You name it, and Earth 911 has it, when it comes to answers to your recycling questions. Earth 911 is currently on over 5 billion products nationwide. Spread the word and let's all work together not only to keep our world clean but also help our industry become stronger. We can and do make a difference. Earth 911 is making every day Earth day.

Reference: Chicago Section of the Society of Plastics' newsletter, *SPECS News* (July 2006 edition)

SHARON NORTHUP



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CHICAGO TO DISPLAY WORLD'S LARGEST PERIODIC TABLE DURING CITY SCIENCE EVENT

The Mayor's Office is pleased to announce Chicago's first ever *Chicago Science Expedition: Two Weeks Worth of Wow!* - a program intended to emphasize the importance of science not only in the classroom, but also in everyday life - from September 22nd through October 8th. To this purpose a number of organizations including Chicago Public Schools, City Colleges of Chicago, and area museums are working together to create a number of free citywide science-related activities.

The kick-off event, will take place at Daley Plaza on September 22nd, at which time the world's largest Periodic Table of the Elements will be unveiled! Using the Daley Center as a backdrop, each window will contain one elemental symbol, creating a table 8 stories tall and 18 windows wide. The individual elemental symbols will be 8 feet tall and 8 feet wide each, nearly filling the windows of the Daley Center.

Each window will display the atomic number and symbol of a single element. In total, 111 elements (through Roentgenium) will be displayed. Colors will be used to accentuate various chemical groups, such as the alkaline, alkaline earth elements, transition metals, and noble gasses.

To stress the importance of chemistry for area businesses, corporations are being invited to sponsor specific elements that are a key component of their products or services. These sponsorships will be publicized in a pamphlet, along with their reason for sponsoring that particular element. In this way, the general public will be able to understand how specific elements are used in their day-to-day lives. Through recognition in the pamphlet and periodicals, companies will simultaneously support science literacy and increase awareness for their products or services and their relationship to science.

The table will be displayed from the windows of the Daley Plaza until September 29th.

For information on sponsoring an element, please contact Mike Davis, Harold Washington College, at 312-553-3211 or by email (mdavis@ccc.edu).

Put your business card here
Reach prospective clients by
advertising in *The Chemical Bulletin*
.....

For more information, call
the Section office (847) 647-8405
or e-mail at
chicagoacs@ameritech.net

SPEAKER CIRCUIT SIGN-UP

The Chicago Section is creating a new list of speakers interested in participating in the speaker circuit and a new list of organizations interested in hosting speakers. The speaker circuit is for venues beyond the ACS such as a company, educational institution, public event, social organization or political organization. Speeches may be formal presentations of research, hands-on demonstrations, or anything in-between. Speakers may choose general topic areas on which you would be willing to speak, or leave it open-ended. Topics may involve subjects you have studied or areas in which you are interested. Representatives of organizations may submit requests for particular topics of interest or leave it open-ended as well. The Section will match incoming requests with the new list and facilitate coordination of the speeches. Speakers of various ages and backgrounds will likely be sent to each organization to provide multiple perspectives and encourage diversity and participation in the ACS.

For more information, contact Chantel Kamm at Chantel_Kamm@hotmail.com, or call 708-383-1784.

A GUIDE TO CLASSROOM INSTRUCTION FOR ADJUNCT FACULTY

Whether you are a new adjunct or experienced full-time instructor, [A Guide for Classroom Instruction for Adjunct Faculty](#), 2nd edition, will help you create an engaging and enlightening classroom environment.

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To order, call 1-800-227-5558 x6050 and ask for product #39940 or order online.

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Desert Analytics	3	520-623-3381	www.desertanalytics.com
Mass-Vac, Inc.	4	978-667-2393	www.massvac.com
Jordi Associates	5	508-966-1301	www.jordiassoc.com
Hitachi HTA, Inc.	6	800-548-9001	www.hitachi-hta.com/LSHome
Northup RTS	7	847-579-0049	www.toxconsultants.com
Axion Analytical Labs, Inc.	8	312-243-2153	www.ChromatographyTraining.com
Micron Inc.	10	302-998-1184	www.micronanalytical.com

THE ELECTRONIC AGE

We need your e-mail address in order for the Chicago Section to better communicate with you, our members. The Chicago Section is investigating ways to reduce the Section budget so more money can be used in member's programs such as education, community outreach, and other program areas. We are considering changing are the *Chemical Bulletin* to an electronic version and moving to electronic balloting for our elections. This does not mean it will happen tomorrow or there will not be a paper version of the *Chemical Bulletin* or ballot if you request one. The idea is to reduce our printing cost, paper usage and mailing cost. Proposals for these ideas and other will be discussed prior to the June Board meeting.

Please send your e-mail address with your name and phone number to the Section office at chicagoacs@ameritech.net. Remember we do not share this information with other organizations.

FRAN KRAVITZ
BUDGET DIRECTOR

ATTENTION HIGH SCHOOL TEACHERS!

Renew or begin your subscription to *ChemMatters*, the ACS award-winning quarterly magazine for high school chemistry students! A one-year subscription to *ChemMatters* is only \$14.00. Buy 5 or more subscriptions and the cost is \$7.00 per subscription. Multi-year discounts are also available. Each one-year subscription includes 4 issues of the magazine. Each issue includes articles that reveal chemistry at work in everyday life.

ChemMatters was designed for teachers to use as a supplement to their first year high school chemistry course. A free teacher's guide is available online which provides additional information on articles, follow-up hands-on activities, classroom demonstrations, and additional resources. Visit us on the web at www.chemistry.org/education/chemmatters.html.

CALENDAR

September 10-14: The 232nd ACS National Meeting, San Francisco, CA.

September 22 - October 8: Chicago's first *Chicago Science Expedition: Two Weeks Worth of Wow!* Kick-off event on September 22 is the unveiling of the world's largest Periodic Table of the Elements at the Daley Plaza. For further information, contact Mike Davis at (312) 553-3211 or email him at mdavis@ccc.edu. (See article in this issue).

September 29: Chicago Section's Dinner Meeting/Education Night. The after-dinner speaker will be Paul Kelter, University of IL at Urbana-Champaign. See details in this issue.

October 11-13: Laboratory Safety and Health ACS Short Course in Chicago. Go to <http://chemistry.org/short-courses> to register or to view online brochure on this course.

October 20: Chicago Section/Northwestern University joint Dinner Meeting. The Fred Basolo Medalist is Prof. Ivano Bertini, Dept. of Chemistry, University of Florence, Florence, Italy. Lecture at Northwestern University, Evanston; the dinner at Zhivago's Restaurant, Skokie.

October 25-27: Midwest Regional Meeting, Quincy, IL. For more information, go to chemistry.org/meetings/regional or call (217) 641-4554. (See article in this issue).

October 25-27: Analytical Laboratory Managers Association's 27th Annual Conference, Portland, OR. For information, contact ALMA by phone, (505) 989-4683 or email at alma@labmanagers.org.

October 28: Chemistry Day, Columbia College Chicago. This year's theme is "Your Home - It's All Built on Chemistry".

November 15: Chicago Section's Dinner Meeting/Julius Stieglitz Lecture. Prof. Samuel Danishefsky, Professor of Chemistry at Columbia University and Director of the bioorganic lab at Sloan - Kettering Institute for Cancer Research. Note that this is a Wednesday.

December 8: Chicago Section's Holiday Dinner Party and Meeting. The after-dinner speaker is Bassam Z. Shkhashiri, University of Wisconsin-Madison, Fountain Blue Banquets.

January 27-31, 2007: The Association for Laboratory Automation (ALA) will hold its LabAutomation2007 Conference in Palm Springs, CA. For more information, contact Anne O'Day via (630) 305-0003 or aoday@labautomation.org.

February 25 - March 2, 2007: PittCon Conference and Expo, McCormick Place, Chicago, IL. For information, go to www.pittcon.org.

March 25-30, 2007: The 233rd ACS National Meeting, Chicago, IL.

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