

theCHEMICALbulletin

<http://chicagoacs.org>

JUNE • 2006

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Monthly Meeting

FRIDAY, JUNE 23, 2006

Monastero's Ristorante
3935 W. Devon Ave.
Chicago, IL
BOTTICELLI ROOM
773-588-2515

DIRECTIONS TO THE MEETING

Take I-94 (Edens Expressway) to either the Touhy Avenue East or Peterson Avenue East exit. Both of these exits take you to Cicero Avenue. If you exit at Peterson Avenue, go 1/2 mile north on Cicero to Devon Avenue. If you exit at Touhy Avenue, go south on Cicero one mile to Devon Avenue. Go east on Devon Avenue just past Pulaski Avenue (about 1/2 block). The restaurant is on the south side of the street.

PARKING: Free valet parking available.

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

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

"Exploration of Peptide-Gold Interfaces using Surface Enhance Raman Scattering" presented by **Dr. Sandra Whaley Bishnoi**, IIT. See page 2 for more information.

SOCIAL HOUR 6:00 - 7:00 P.M.
Complimentary Cocktails provided by Hitachi HTA. See their ad on page 2.

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 Tuesday, June 20. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

MENU: Fresh fruit cup appetizer; Garden Salad with choice of dressing; Entrée: Lake Superior White Fish served with garlic, oregano, & olive oil, Veal Parmigiana served with tomato sauce and mozzarella cheese, or Vegetarian Spinach Lasagna. Accompaniments are broccoli and glazed carrots, penne pasta with tomato sauce, rolls and butter, and beverage. Dessert is Cheese Cake with fresh strawberry sauce.

The cost is \$30 to Section members who have paid their local section dues, members' families, and visiting ACS members. The cost to non-Section members is \$32. The cost to students and unemployed members is \$15. Seating will be available for those who wish to attend the meeting without dinner.

GENERAL MEETING 8:00 P.M.



Dr. Penny Le Couteur, Dean of Arts & Sciences, Capilano College, North Vancouver, B.C.

Topic: "Unbuttoning Napoleon" or "Why Didn't You Include Oil?"

Abstract: How "Napoleon's Buttons: 17 Molecules that Changed History" came to be written; how its authors selected the molecules they considered to be the most important in history; and the stories of some of the weird, wild, and wonderful connections between chemistry and the development of civilization.

Biography: Penny Le Couteur grew up in New Zealand where she received a B.Sc. and an M.Sc. in Chemistry from the University of Auckland. After receiving a Ph.D. in Chemistry from the University of California at Santa Barbara she moved to British Columbia and became a founding faculty member in the Chemistry Department of Capilano College in North Vancouver where she is now Dean of Arts and Sciences. She has served as an advisor in Chemistry with the Eastern Indonesian Universities Development Project in Sulawesi, Irian Jaya and Ambon in Indonesia, involved with curriculum development, pedagogy and organization.

Penny authored the first and second year university transfer courses in chemistry for B.C.'s Open University and is co-author of a Canadian Grade 12 Chemistry Textbook. Her latest publication "Napoleon's Buttons: How Seventeen Molecules Changed History", was selected as one of three finalists for the book category award for The 2003 National Academies of Science, Engineering and Medicine and was described by *Entertainment Weekly* as "a splendid example of better reading through chemistry."

NOTICE TO ILLINOIS TEACHERS

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

TOPICAL GROUP SPEAKER



Dr. Sandra Whaley Bishnoi

Talk Abstract: Many groups have hypothesized that short (less than 20 amino acids) peptides can be used for the delivery of metal nanoparticles to specific targets for either biomedical or nanofabrication applications. Although, several groups have been successful in the selection of peptides that will specifically bind to metal and semiconductor surfaces from biological / combinatorial libraries (phage, bacterial, and yeast displays), there has been limited discussion of the mechanism of binding between peptides and such surfaces.

Our group has recently focused on the use of molecular spectroscopy (namely, surface-enhanced Raman scattering) to study peptide-metal interfaces to help elucidate the binding mechanism of

"gold-specific" peptides isolated by other groups from biological, phage or yeast display systems. The goal of this project is to understand the molecular basis of this binding in order to improve upon the evolutionary technique used by others and design peptides for directed delivery of nanoparticles to specific biological targets.

Speaker's Biography: Dr. Bishnoi joined the faculty of the Biological, Chemical and Physical Science department at IIT in Fall 2006 after finishing a postdoctoral position in the lab of Professor Naomi Halas at Rice University in Houston, Texas. Prior to her postdoctoral training at Rice, she was an Advisory Engineer at International Business Machines in Fishkill, NY.

Dr. Bishnoi is a chemist by training, obtaining both her bachelor's and doctoral degrees at the University of Texas at Austin, though her research combines elements of chemistry, biology and material science. Her research program at IIT incorporates her graduate and postdoctoral interests in the isolation of peptides for specificity to inorganic surfaces and the study of self-assembled monolayers on gold nanoparticles using surface enhanced Raman scattering (SERS) to investigate the binding of peptides and other biopolymers to gold surfaces.

In This Issue

Features

- 1 — Dinner Meeting
- 2 — Topical Group Speaker
- 3 — ChemShorts for Kids - Pepper Tension
- 3 — Job Club
- 4 — Jewel Nicholls
- 4 — Illinois State Fair
- 5 — In Memory of Nat Gilham
- 5 — Help Wanted
- 6 — ALMA e-News - House-keeping
- 6 — Chair's Report
- 7 — Summer Social
- 7 — Seymour Patinkin-Henry Hill Awardee
- 7 — Electronic Age
- 8 — Spring Council Report
- 9 — Weird Science Workshop
- 10 — In Memory of Steve Sichak
- 11 — Speaker Circuit Sign-Up

Every Issue

- 1 — Notice to Illinois Teachers
- 3 — Free T-Shirts
- 10 — Contact the Chair
- 11 — Ad Index
- 12 — Calendar

The New Frontier for Proteomics



Come hear about Hitachi's new NanoFrontier LCMS system at the ACS Chicago Section Meeting!

Date: Friday, June 23, 2006
Time: 6:00 pm
Place: Monastero's Ristorante and Banquets, Chicago, IL

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

Our LCMS product manager, **Jennifer Krone, Ph. D.**, will discuss the wonders of the new technologies culminated in the NanoFrontier at this month's ACS Chicago Section Meeting, during the cocktail hour sponsored by Hitachi.

Join us to learn about Hitachi's new NanoFrontier LCMS System while you enjoy a beverage on us!

NEW! Hitachi NanoFrontier LCMS System



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HITACHI
 Inspire the Next

"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.

Pepper Tension

Kids, can you make pepper flakes, paper clips, and needles "walk on water"? Indeed you can, and here are the things you will need to make it happen: a bar of soap or liquid detergent, water, three shallow bowls or dishes, pepper flakes or talcum powder, a small string, paper clip, fork, needle, and a small plastic berry basket.

Sprinkle pepper or talcum powder on the surface of cold clean water in a shallow dish. Allow the particles to spread out and cover the surface. Touch a bar of soap or put a drop of liquid detergent on the water's edge at the side of the dish. Observe what happens to the particles on the water surface. What did the pepper flakes do when you added the drop of soap? Did they (a) clump into a ball, (b) sink to the bottom, or (c) spread out toward the rim of the dish? You should see (c) happen; the pepper spreads out toward the rim of the dish.

What's happening here? The water molecules on the surface are strongly attracted to each other and pulled each other in all directions at once. This creates a strong but flexible "skin" on the water's surface that is called surface tension. As the soap or detergent dissolves, it breaks the surface tension of the water in the area of the soap. Surface tension results from the tight bonds between the water molecules. When these bonds are disrupted by the soap, the surface tension is broken. The pepper flakes act as a visual indicator of this process as it is happening, as they "walk on water" towards the rim of the dish.

In the second shallow dish, float a small loop of string in the middle of the surface of water. Touch a bar of soap or put a drop of liquid detergent inside the loop. Observe what happens to the loop of string. The surface tension inside the loop of string should be weakened by the soap but the surface tension outside the string should have pulled the string outward.

In the third shallow dish, lower a paper clip and a needle flat onto the water surface using the fork. In this same dish, carefully set the berry basket on the surface of the water. All three of these items should float on the water surface. Touch a bar of soap or put a drop of liquid detergent to the water surface. Observe what happens to the floating items. The paper clip, needle and even the plastic basket should have floated on top of the water due to the water's surface tension. As soon as the tension was broken by the soap, these items should have sunk to the bottom.

What else besides soap do you think could break the surface tension? Try different things! NOTE: The ACS Chicago Section's website version of this article will show a figure of the pepper experiment.

Reference:

<http://education.usace.army.mil/clubhouse/science/experiment.cfm?Topic=surften&id=126>

EDITED BY K. A. CARRADO,
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JOB CLUB

The next meeting of the Chicago Section ACS Job Club will be held on Friday, June 23 at 5 p.m. at Monastero's Ristorante. 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.

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

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.

FREE T-SHIRTS

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

L. JEWEL NICHOLLS DSA RECIPIENT



The Chicago Section's Distinguished Service Award was presented to L. Jewel Nicholls at the April 28 Chicago Section's luncheon meeting.

The Distinguished Service Award was established in 1974 at the suggestion of Louis L. Lerner, who was editor of *The Chemical Bulletin*. It was established to recognize members of the Chicago Section ACS who have provided outstanding and devoted service to the Section. A list of Jewel's service to our Section was given in the April 2006 *Chemical Bulletin*. Here is more biographical information on her.

Jewel received her B.S. in chemistry from Monmouth College in 1950 and her M.S. in chemistry in 1969 and Ph.D. in inorganic chemistry in 1977, both from the University of Illinois at Chicago. She was a Lecturer at Concordia Teachers College in River Forest, IL (1974-1977) and a Visiting Assistant Professor at UIC (1977-1980). While at UIC, she was the Department of Chemistry's Lecturer and Coordinator of Laboratory Safety from 1980 to 1988, worked as a chemist within the Environmental Health and Safety Office from 1988 to 1990, and then became Assistant Director of the Environmental Health and Safety Office in 1990.

While at UIC, Jewel co-authored several general chemistry laboratory manuals, developed videotapes for general chemistry laboratory instruction, and developed an undergraduate course in chemical laboratory safety with a National Science Foundation grant. She also worked as a consultant to several colleges and universities to develop chemical hygiene plans.

Jewel was Chair of the Chicago Section 1989-1990. She was Chair of the Division of Chemical Health and Safety in 1987. She has served on the Chem-Tech Advisory Board and the ACS Examination Committee. She is a member of Iota Sigma Pi.

When Jewel moved to Minnesota, she

taught in 1991 and 1992 at Saint Johns University and College of Saint Benedict in Collegeville, MN and at Saint Cloud State University, St. Cloud, MN. Some time later, she relocated to Arizona, where she has been an Adjunct Faculty member of Chandler-Gilbert Community College since 2003, teaching a course in Introductory Chemistry.

Jewel's children are Dana Labrum, a library director in Vermont; Jim Nicholls, a plant manager in Washington state; and Pam Marks, who lives in Arizona and is the mother of Jewel's three grandchildren. Pam is a chemist and teaches chemistry at Arizona State University. Pam's husband, Steve, is a chemist at Intel.

Jewel now lives in Mesa, Arizona, enjoying the pool for swimming every morning. Besides her course teaching, she is also active in her church, in the American Association of University Women (AAUW), and with her grandchildren.

POP TOP RINGS COLLECTION

Instead of throwing away those pop top rings from your pop cans, please bring them to the dinner meeting so we can donate them to a program at Ronald McDonald House.

ATTENTION: GRADUATE SCHOOL RECRUITERS

Would you like to increase the pool of applicants to your graduate programs? Then register for the ACS graduate school recruiting breakfast and ice cream social for undergraduate chemistry students! The ice cream social will be held on Sunday, September 10, 2006 from 5:00 - 6:30 p.m. and the breakfast will be held Monday, September 11, 2006, from 9:00-11:00 a.m. in San Francisco, CA as part of the 232nd ACS National Meeting.

The graduate school recruiting morning tea and breakfast offers:

- Representatives of schools the opportunity to meet qualified graduate school candidates.
- Students a chance to discuss their educational plans informally and intimately with faculty, staff, and students from participating institutions.

Registration ends August 8, 2006.

For more information, contact Adam M. Boyd at 1-800-227-5558, ext. 6188 or email a_boyd@acs.org.

ILLINOIS STATE FAIR

The Illinois Sections of the ACS are again planning to have a tent at the Illinois State Fair. **Last year, over 11,000 people visited our tent.** The tent provides information to the public on chemistry by ways of demos, hands-on activities, literature, and give-aways. This year the Illinois State Fair is from August 11-20 in Springfield. **We are looking for individuals or companies to help sponsor our tent.** In return for financial contributions we will promote your company's name at the front of the tent as a sponsor as well as on CDs with information given to over 300 school teachers throughout the state of Illinois. **This is a great way to get your company recognized in the public as well as promoting chemistry.** If you are interested in making a donation please e-mail Cherlyn Bradley at CBRAD1027@aol.com or call the Section office at (847) 647-8405 as soon as possible.

CHERLYN BRADLEY
FRAN KRAVITZ
CO-CHAIRS, AD-HOC COMMITTEE
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IN MEMORY



NATHANIEL L. GILHAM, SR.

On Wednesday, March 22, 2006, a friend to many, a colleague, a gentle and quiet man passed away. In early February, Nat had a stroke. He spent many days in the hospital and then in a rehabilitation center before succumbing to pneumonia. He will be missed by many, especially by his friends at the Chicago Section.

Nathaniel was born on October 6, 1929 in Atlanta, Georgia to Reverend Dawson and Bertha Gilham. He was the youngest of four sons (Dawson Jr., Timothy and Titus) and one sister, Elizabeth, who died at age five. He attended Claflin College in Orangeburg, South Carolina from 1947 to 1948. In 1948, he transferred to Clark College in Atlanta, Georgia. He spent the next two years there until he enlisted in the United States Army in the Medical Corps, Laboratory Services in 1950. Nat achieved the rank of sergeant and was honorably discharged in 1952. He completed his B.S. at Clark College in 1956. During this time, he married Florence E. Edwards in October, 1953 and had four children (Vicki, Faye, Nathaniel Jr. and Joseph) in addition to his stepdaughter Sandra.

In 1963, Nat began his professional career as a biochemist at the University of Chicago Hospital until 1965. He then joined Oak Park Hospital as a clinical instructor of microbiology. In 1966, he began working on his M.S. in chemistry at Ohio Christian College in Columbus, Ohio. He completed his degree in 1968 and joined the Division of Biochemistry at Cook County Hospital as a Biochemist II working in the area of lipid, renal and gastroenterology. Interestingly, he also founded the Halsted Medical Laboratory as owner and director from 1967 to 1973. By 1973, Nat was promoted to supervisor of the Biochemistry Section of the Fantus Health Center Laboratory at Cook County Hospital.

Nat, as we know, was not one to do just one thing. In 1972, he began his aca-

demical career as a clinical chemistry instructor at both the YMCA Community College and the Medical Laboratory Technician Program at the YMCA Community College/Cook County Hospital. He spent ten years teaching at both. Concurrently, Nat also was a clinical chemistry instructor for the Medical Laboratory Technician Program at Malcolm X College/ Cook County Hospital, which he retired from in 1991. During this time, he became a research associate in the Division of Urology Hekteon Institute working on the early detection of prostatic cancer using LDH Isoenzymes V/I ratio. He published many papers on this subject. Also during this time period, Nat was promoted again at Fantus Health Center and Pediatric Emergency Room Laboratory of Cook County Hospital to technical manager, Director of Laboratory Services until his retirement in 1991.

He earned many honors during his professional career including the recognition award from the College of American Pathologists of Fantus Clinical Laboratory and the College of American Pathologists of Pediatric Emergency Room Laboratory, certificate of recognition for distinguished service from the Department of Patient Education and Resources, certificate of recognition for teaching at Malcolm X College, certificate of tribute for ten years of distinguished service teaching at the YMCA College and the award of meritorious service for the Chicago Public Schools for Health -Hospital Training Projects.

Nat joined the American Chemical Society in 1976. It wasn't long until he became involved with the local section. In 1977 he started on the Tellers Committee which was closely followed by work on the Public Affairs Committee (78-88). He has been on Chemistry & Public Affairs (79), Nominating Committee (80-83), Policy (87), Environmental & Lab Safety (83-88), College Education (81-82), High School Education, Public Relations (86-87) and Chemistry Day (97-01). His pet project has always been the Chicago Board Liaison Committee (80-05) which he served as chair of the committee and most recently as co-chair instilling his wisdom for the chairs that will follow him on that committee. Nat was elected an alternate councilor in 1986 and was then elected as a councilor of the Chicago Section in 1987 until 2005. He served nationally on the following committees: Project SEED (83-93), Local Section Activities (94-01), Constitution and Bylaws (01-02) and the Admissions Committee (03-05). He was also a congressional science counselor for Sen. Charles Percy in 1979.

In his free time, he was a member of the board at Ada S. McKinley Family Services. Nat was also a member of Old St. Patrick's Church and founder of the

church's choir. He leaves behind his children, grandchildren (Donzelle, Chilita, Cheron, Agnes, Nina, Alex, and Nathaniel III), great grandchildren (David, Darius, Christopher, Cornelius, Winston and William), his ex-wife, his oldest brother, Dawson and his very special friend and companion, Rosemary Traba.

FRAN KRAVITZ

HELP WANTED

The Chicago Section, along with the other Illinois Sections of the ACS, is planning to have a tent at the Illinois State Fair again this summer. **We need volunteers to make this program a success.** If you enjoy meeting people and having a good time with your colleagues, join us in the tent. **Last year, we had over 11,000 people visit us.** The tent provides information to the public on chemistry by ways of demos, hands-on activities, literature, and give-aways. The Illinois State Fair is from August 11-20 in Springfield. There are nearby reasonable priced hotel-motels for accommodations during the fair and we usually meet as a group for a community dinner in the evenings. Parking and admission to the fair is free for volunteers.

We are also looking for individuals who may not be available for the fair but would still like to volunteer. We need individuals to help schedule volunteers for the actual fair, design hands-on activities, design display material for our boards, help with solicitation of funds, designing a computerized quiz for attendees who visit the tent and help design the CD for teachers. We meet once a month either by phone or in person on a Saturday, but the above opportunities can be done remotely as a subcommittee.

If you are interested in a fun, rewarding and challenging opportunity e-mail Cheryl Bradley at **CBRAD1027@aol.com** or call the Section office at (847) 647-8405 as soon as possible.

CHERYL BRADLEY
FRAN KRAVITZ
CO-CHAIRS, AD-HOC COMMITTEE
ON THE ILLINOIS SECTIONS OF THE
ACS COOPERATIVE STATE FAIR
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contact the Section office
Phone: (847) 647-8405
Fax: (847) 647-8364

ALMA E-NEWS

Housekeeping

Greetings Laboratory Managers,

As labs struggle to handle growing workloads with fewer resources, some have adopted "Lean" philosophies to eliminate waste and improve productivity. A beneficial side effect of these efforts is usually a marked improvement in housekeeping which, in turn, leads to a safer lab. One of the first "Lean" tools that organizations typically apply is the 5 S's which come from Japanese concepts roughly translated as follows:

1. Organization — throw out the junk.
2. Neatness — organize what is left.
3. Cleaning — clearly mark where things go when not in use.
4. Standardization — make the system easy to use and sustain.
5. Discipline — embed the previous four steps in your culture and constantly improve them.

This is a good time to combine these ideas with lab cleaning to get rid of obsolete items, organize equipment, and generally create a safer, more pleasant environment for your staff. So, make an event of it -- shut down the lab for a few hours, bring in pizza, and involve all of the staff in transforming your lab into a showplace.

Now here's another safety suggestion: With the arrival of summer, many of our staff will spend time doing yard work at their homes. At your next safety meeting, provide each staff member with a free pair of safety glasses to wear while mowing, edging, and trimming. It's cheaper than paying for time off due to an eye injury!

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

CHAIR'S REPORT

It has been approximately six months since I became chair of the Chicago Section and I want to share my thoughts on what we have accomplished during the first half of 2006. As you will recall, I expressed my platform with the phrase — Today, Tomorrow and Beyond. Under each category, here are my thoughts.

TODAY — We haven't really had a program to deal with career issues. However, we will have a before-dinner discussion in the early fall conducted by the Chair of our Professional Relations committee, Mark Cesa. The national ACS has some workshops on career options for mid-career chemists. I have thought about getting someone from the National ACS office to present a program. If you would be interested in this type of program, email me at bmoriarty@nalco.com or call the office and our office manager, Gail Wilkening, will give me the message. The phone number for the section office is (847) 647-8405.

I also proposed to see if some of our programs could be provided to a greater number of members by, maybe, web casting the meetings or using some other more recent technology. Our webmaster, Milt Levenberg, is looking into this for us and should have some answers soon.

TOMORROW — We will once again be active at the Illinois State Fair, along with other local sections in Illinois. In addition, we have been trying to promote the Legislative Action Network (LAN). As you know, the president of the ACS, Ann Nalley, is trying to increase the number of LAN members. If you haven't joined this program and have web access, please join so our legislators at the national level may hear your thoughts and ideas.

BEYOND — We were able to get some members interested in participating in Earth Day this year. We should have more interest and participation in Earth Day next year. Of course, planning has begun for Chemistry Day, occurring on Saturday, October 28. This year's theme is "Your Home: It's All Built on Chemistry". Please contact me if you are interested in helping out with this activity.

Of course, I am always interested in hearing from section members. Again, either contact me directly via email or contact the section office to relay a message. Thanks for your continued support. The Chicago Section cannot do anything without its members.

BARB MORIARTY

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THE ACS GUIDELINES REVISION

The ACS Committee on Professional Training (CPT) is undertaking a major revision of the ACS Guidelines for approval of bachelor's degree programs in chemistry. The goals of revising the ACS guidelines include:

- Simplifying the ACS guidelines for approval of chemistry programs
- Allowing greater flexibility for departments to develop certified degree tracks
- Encouraging department-initiated innovation and curriculum improvement
- Providing faculty and infrastructure requirements that support excellent chemistry programs.

The overview of the proposed revisions to the ACS guidelines that CPT is considering can be accessed from the CPT website at www.chemistry.org/education/cpt.

CPT invites you and your department to respond to these proposed changes by June 1, 2006, and thereby contribute to the ACS guidelines revision process. Please send comments to CPT by email to cpt@acs.org with a subject of "ACS Guidelines Revision."

SUMMER SOCIAL ACTIVITY

For the past couple of summers, we have had a Summer Social Activity open to all members of the Chicago Section, plus friends and family. I propose that this summer we attend one of Chicago's minor league baseball teams' games. We will be getting together on **Friday, July 14, 2006** to see the Schaumburg Flyers play the Kansas City T-Bones. Tickets should be approximately \$11/person. The game is at Alexian Field, 1999 Springinsguth Road in Schaumburg. The game starts at 6:45 PM. If you are interested, please contact the section office for details and to reserve your tickets. The phone number for the section office is (847) 647-8405.

BARB MORIARTY
CHICAGO SECTION CHAIR



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.

SEYMOUR H. PATINKIN RECEIVES HENRY HILL AWARD

Seymour Patinkin received the Henry Hill Award on Tuesday, March 28, 2006 in Atlanta, Georgia. The Henry Hill Award was established in 1984 by the Division of Professional Relations to recognize outstanding achievement in the area of Professional Relations. It honors Henry Hill, Distinguished Chemist and Past President of the American Chemical Society.

Seymour was born in Chicago in 1926 and graduated from Engelwood High School in 1943. He went to the Illinois Institute of Technology for one year, but then went into the navy in 1944 as an electronic technician's mate. He returned to IIT after the war and graduated in 1948 with a B.S. in Chemistry.

Seymour worked for one year at Inland Steel Company doing coal and coke testing for making steel. He went back to graduate school and earned his Ph.D. in 1954 and was hired by the Sinclair Oil Company. He worked in the field of petrochemicals and gasoline additives including the process of making isoprene and long chain alcohols using Natta-Ziegler catalysts. While at Sinclair, he received over 30 patents and co-authored with Bernard Friedman, the chapter Alkylation of Aromatics with Alkenes in the multi-volume series on the Friedel-Crafts reaction edited by George Olah.

In 1966, he left Sinclair to accept a full time position at Roosevelt University. His main area was organic chemistry, organic reaction mechanisms and instrumental analysis. He was the first winner of Roosevelt Elizabeth Balanoff award for university service. He was chair of the chemistry department from 1990 to 1996 and retired from full time teaching in August 1995 and was appointed Professor Emeritus.

Seymour joined the ACS in 1949 and became active in the Chicago Section in 1970 as a member of the Professional Relations committee and chair of that committee in 1974. He continued his activities in professional relations both at the local and national levels, chairing the Division of Professional Relations in 2003. He and Susan Shih designed a symposium titled "Adjunct Faculty Issues in Higher Education" at the 2003 Great Lakes Regional Meeting. He has served as a councilor for the Chicago Section for 28 years and, at the National ACS level, has been a member of the following committees: Membership Affairs, Professional Relations, Local Section Activities, Economic and Professional Affairs, and Economic Status.

FRAN KRAVITZ

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 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

AND GLADLY TEACH: A RESOURCE BOOK FOR CHEMISTS CONSIDERING ACADEMIC CAREERS 2nd Edition Now Available

Among the specific topics included in the second edition of this 81-page book are the nature of an academic position in various types of institutions; preparations to make while still in graduate school; choosing between a postdoctoral position and a temporary teaching job; preparing a curriculum vitae, research proposal, and statement of teaching philosophy; campus visits for job interviews; weighing competing job offers; and balancing time demands in working toward tenure. Differences among institutions and issues of concern to women and underrepresented minorities are addressed as appropriate.

Interspersed within the chapters are statements from twelve recent Ph.D.s, describing their trajectories toward academic careers. The book ends with an extensive bibliography of printed and electronic resources.

For a complimentary copy of *And Gladly Teach*, contact the ACS Office of Graduate Education at GradEd@acs.org or the ACS Office of Society Services by phone at (800) 227-5558 or (202) 872-4600, or by e-mail at help@acs.org. To purchase multiple copies of the book, go to the ACS Online Store, product number 61617.

REPORT OF COUNCIL MEETING HELD IN ATLANTA

The 231st National Meeting of the ACS was held in Atlanta, GA from March 26-30, 2006. The Chicago section was fully represented by 12 councilors and two alternate councilors. The councilors who attended for the section were: Roy Bible, Cherlynlavaughn Bradley, Charles E. Cannon, Mark Cesa, David Crumrine, Russell W. Johnson, Fran K. Kravitz, Claude A. Lucchesi, Barbara E. Moriarty, Seymour H. Patinkin, Marsha Anne Phillips and Stephen Sichak. The alternate councilors representing the section were Inessa Gorelik and Milt Levenberg.

As is the custom, the council remembered past Chicago councilors Stan Drigot and Nat Gilham.

Finances: The Committee on Budget and Finance reported that the Society ended 2005 with a net contribution from operations of \$11.6 million, which was \$9.1 million favorable to the approved budget. The amount exceeded expectations due to higher-than-budgeted print and electronic information services revenue and investment income, as well as expense savings from staff vacancies and reductions in information technology spending.

The Council voted to set the dues for 2007 at \$132, an increase of \$5, to cover the increase in the Consumer Price Index. In addition, the special assessment for 2007, which was expected to be \$8, was decreased to \$4. 2007 will be the last year of the special assessment.

Governance: The council selected two candidates for 2007 President-Elect to stand for election this fall. They are Bruce E. Bursten and Bassam Z. Shakhashiri. The candidates for District V director were chosen to be John E. Adams and Judith L. Benham. The candidates running for Directors-at-Large were announced to be William H. (Jack) Breazeale, Jr, Dennis Chamot, Peter K. Dorhout, Paul R. Jones, Valerie J. Kuck and Dorothy J. Phillips. Three candidates will be elected, two to serve a full term (2007-2009) and one to serve the remainder (2007-2008) of the term created by the resignation of James D. Burke, effective December 31, 2006.

A Governance Review Task Force was jointly appointed by the Board of Directors and the Council Policy Committee to review the Society's governance and its Constitution and Bylaws, to ensure that the Society has a governing framework to enable it to best fulfill its mission, meet membership needs and remain a world-class organization. The

task force is looking at five key elements: membership, governance structure, governance organization, geographical organization and disciplinary organization. The task force has prepared an initial set of ideas that were discussed by various committees and other governance structures.

In addition, a Program Review Advisory Group (PRAG) was established to assist the Committee on Budget and Finance in reviewing all Society programs. Programs will be reviewed every four years. This is in addition to the Committee on Committees that reviews committees.

Membership Affairs: Membership in the American Chemical Society was 158,422 as of December 31, 2005. This represents an increase over 2004, reversing the recent trend of decreasing membership.

Meetings and Expositions: The 231st ACS national meeting attracted 12,546 registrants as of March 28, 2006. This included 4,158 student members.

Economic and Professional Affairs: By the end of Tuesday, there were 1,247 job seekers at the Chemjobs Career Center and 197 posted positions available. The number of interviews conducted in Atlanta by the end of Tuesday was 1,180. A total of 29 workshops, 33 mock interviews and 75 resume reviews were held in Atlanta.

Special Discussion Topic - Membership: Several groups have recommended recently that the requirements for ACS membership should be less restrictive. The council discussed the topic as to whether requirements for ACS membership should be less restrictive, more restrictive or stay the same. Many councilors expressed their views; some felt undergraduate students pursuing a degree in the chemical sciences should be made student members, rather than student affiliates. Others felt that our criteria for membership should be tightened.

If you have any questions and/or comments about the above actions, please contact me by email (**bmoriarty@nalco.com**) or one of the other councilors.

BARBARA MORIARTY

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

SECOND CAREER CHEMICAL EDUCATION SCHOLARSHIPS AVAILABLE

Attention Persons Interested in Becoming Second Career Chemistry Teachers

The Hach Scientific Foundation would like to offer second career chemical education scholarships to chemists. Scholarship money is available for second career chemistry teachers! The Hach Scientific Foundation is a private multi-million dollar foundation dedicated to chemistry and chemical education. The Hach Scientific Foundation 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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ANALYSIS FOR THE CHEMICAL ELEMENTS

FALL 2006 MEETING CALL FOR PAPERS - THINK AHEAD!

The 232nd ACS national meeting will be held in San Francisco, CA, September 10-14, 2006. Undergraduate students are invited to submit abstracts for the Undergraduate Research Poster Session and/or the Successful Student Affiliates Chapter Poster Session. Undergraduate and SAACS (Student Affiliates ACS) abstracts should be submitted to the Division on Chemical Education. For more information, email saprogram@acs.org.

WEIRD SCIENCE AND WADE AT UIC

The Department of Chemistry of the University of Illinois at Chicago Presents a Workshop Course in Chemistry for High School/Junior High School Teachers

Weird Science appears for the eleventh time at UIC this summer, again with all-new material, and this session promises to be the Ultimate. Weird Science consists of documented chemistry demos, labs, computer applications, make-and-takes, and lectures that chemistry teachers can really use. It is offered as Chem 572 (Teaching Methods in Chemistry), a three semester-hour graduate-level course.

Where and When: On the UIC campus from 8:30 am until 5:00 pm for five days, Aug 7 -11, 2006.

Credit: Three semester-hours. Chem 572 is not available on a non-credit basis, but may be repeated for credit. A maximum of three semester-hours of credit in Chem 572 may be applied toward the requirements for the M.S. or the Ph.D. in chemistry at UIC.

Cost: The tuition rate for courses offered through the UIC Office of Continuing Education in Summer 2006 is currently unavailable. The current tuition is a bit over \$900 for Chem 572. The tuition rate will be posted on the UIC OCE website <http://www.oce.uic.edu/oce/public/>.

Topics: Teaching entropy so students understand it, colloidal suspensions and other in-between situations, new developments in electrochemistry, spotting and fixing common misconceptions, and much more.

Enrollment: Go to the UIC Office of Continuing Education website at www.oce.uic.edu and follow the procedure described. Please call OCE at 312-996-8025 or 800-453-3728 (from outside Chicago) in case of questions or problems. Enrollment has to be limited, so apply early and often!

Note: This will probably be the last time for this program that has run for 11 years!

Additional information about the presenters appears at <http://www.chem.uic.edu/marek>

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IN MEMORY

STEPHEN SICHAK, SR.

The Chicago Section has lost another wise, talented and vital colleague from its ranks. Stephen Sichak, Sr. passed away on Thursday, May, 11, 2006 in his sleep. This leaves a void in many of our lives. He will be greatly missed by his friends. His kind and patient spirit was evident to many of us as we saw him do with a passion what he enjoyed best, chemical safety.

Steve was born on September 2, 1928 on the east side of Chicago. He attended St. Louis University where he received his B.S. degree in Chemistry. He also received a B.S. in microbiology from the University of Indiana. Steve began his career as a senior chemist with the Toni Division of the Gillette Company in 1956. In 1967, he was appointed Laboratory Safety Director. His career ladder included technical coordinator of product safety at Dr. Scholl, safety supervisor for ARCO, and finally a senior safety engineer at Argonne National Laboratories. He remained there for ten years until his retirement in 1996. Steve authored and published "The Laboratory Safety Deskbook, I: A Guide to OSHA Standards".

Steve joined the American Chemical Society in 1960. He became active in the Chicago Section in 1964 on the staff of the *Chemical Bulletin*, where he served eleven years and one year as business manager. Also during that first year, he was active on the House Committee. His true interest and passion began in 1972, when he chaired the Safety Committee for the next three years. Steve continued to be a member of the Safety Committee either in the role of chair or co-chair, training others under its new name, Environmental Health and Safety. Steve had also been involved with Chemistry Day since the beginning; as an extremely active member of the committee and in the role of safety. In 1984-85 he was elected Chair-Elect of the Section, and succeeded to Chair in 1985-86 and Past Chair in 1986-87. He held many roles in the Section including Vice Chair (81-82), Policy Chair (81-82), Office Affairs and Budget Director (81-84), Professional Relations (72-73) and Nominating Committee (02). Steve also served the Section faithfully as a director for fifteen years and as an alternate counselor from 74-79 and finally as a counselor from 1980 until his passing.

As seriously as he took his duties to the Section, he was also extremely active at the National level. Steve represented

the Section as a counselor for twenty-five years, at which time he served on Chemical Safety (Defunct) as a committee associate until the new Committee on Chemical Safety (CCS) was formed. He was a committee associate on CCS from 1988-1991 and full member of the committee from 1994 through 2003. Steve became a consultant to the committee in 2006. Steve also served as a member on Constitution and By-Laws from 2002 until 2003. He was active in the Chemical Health & Safety Division from 1993 to 2003 and chaired that Division in 1994. He was also a long time member of the Division of Professional Relations and active on the newsletter committee from 1979 to 2003 and a member-at-large from 2001 to 2002.

Steve received the Distinguished Service Award from the Chicago Section in 1994 and the Chicago Association of Technological Societies Merit Award in 1991. He was a member of the Executive Committee R&D Section National Safety Council and the National Fire Protection Association. He was chair of the Midwest Chapter of Cosmetic Chemists in 1976 and president of the Toastmaster International Argonne Club in 1990.

Steve's other love besides the Section and his family was his church. He was an extraordinary minister at St. James in Arlington Heights and on the Parish Council for 3 years. He loved to cook, with veal parmesan being one of his specialties. He leaves behind his devoted and loving wife Peg, 13 children and 16 grandchildren. Our prayers go out to his family.

FRAN KRAVITZ

NATIONAL CHEMISTRY WEEK: "YOUR HOME-IT'S ALL BUILT ON CHEMISTRY"

October seems far away, but it and National Chemistry Week (NCW) will be here before we know it. Each year the American Chemical Society's NCW campaign reaches millions of people with positive messages about the contributions of chemistry to their daily lives. It is the one time during the year that chemists unite nationwide with the common goal of spreading the word in their local sections that chemistry is good for our economy, our health, and

our well-being (see note below). The NCW celebration dates for 2006 are October 22 - 28 with the theme, "Your Home-It's All Built on Chemistry".

Planning starts long before NCW arrives, and the Chicago section's NCW coordinators are Dave Crumrine (dcrumri@luc.edu) and Tom Kucera (tjkucera@interaccess.com). Some ways that you can contribute to the NCW campaign are: helping at an event planned by the coordinators; performing chemical demonstrations at a neighborhood school; conducting hands-on activities with children at museums, malls, or libraries; or writing articles or letters to the editor of the local paper.

NCW is sponsored by the Office of Community Activities (800-227-5558 ext. 6097, ncw@acs.org). Visit <http://chemistry.org/ncw> over the summer as more content is added!

Please join the celebration!

Note: This will also be the theme of the **ACS Illinois Sections State Fair project** this year when our Illinois sections jointly host a tent again at the State Fair August 11-20. Come join us in Springfield, IL. Also see article on the State Fair project in this issue.

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

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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.

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.

DEADLINES FOR CHEMICAL BULLETIN

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

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
September	August 4
October	August 25
November	September 22
December	October 13

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 4,600 members, who are professional chemists and others in related professions in industry, academia and government throughout greater Chicago.

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CALENDAR

May 31-June 2: The Great Lakes Regional Meeting, Hyatt Regency Hotel, Milwaukee, WI. The theme is "A Festival of Chemistry in the City of Festivals". For more information, go to chemistry.org/meetings/regional.

June 4: The fourth Global Climate Change Forum, "How Can We Continue to Meet Our Energy Needs without Jeopardizing Our Future", Chicago Cultural Center, 10 am to noon.

June 23: Chicago Section Dinner Meeting. The after-dinner speaker is Dr. Penny Le Couteur, Dean of Arts & Sciences, Capilano College, North Vancouver, British Columbia. She is the co-author of the book "Napoleon's Buttons - How 17 Molecules Changed History" and she will speak about how her book was developed and several of the stories within the book. **(See cover page of this issue)**

June 26-30: High Performance Liquid Chromatography: Fundamentals, Troubleshooting, and Method Development course, Axion Analytical Laboratories, 14 North Peoria St., Suite 100, Chicago. For details, contact Lee Polite at (312) 243-2153 or lee@axionlabs.com. The course will also be held October 23-27.

June 26-30: 10th Annual Green Chemistry & Engineering Conference, Washington, DC. The theme is "Designing for a Sustainable Future". To learn more about the conference, please visit the conference website: www.greenchem2006.org

July 10-14: McCrone Research Institute will host the Inter/Micro 2006 conference in Chicago, IL. Full information on the event will be on the website, www.mcri.org.

August 7-11: The Weird Science course in chemistry for high school/junior high school teachers, University of Illinois at Chicago. Go to the UIC Office of Continuing Education website at www.oce.uic.edu and follow the procedure outlined. Please call OCE at (312) 996-8025 or (800) 453-3728 (from outside Chicago) for further information. **(See article in this issue)**

August 11-20: Illinois ACS Sections' joint tent activities at the Illinois State Fair — including chemistry demonstrations, hands-on activities, give-aways, and daily raffle. Contact the Section office at (847) 647-8405 if you would like to volunteer to help.

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

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

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

Whether you spend your summer traveling, going to school, working, or playing....Have a wonderful summer and see you in the Fall with the September issue — Editorial Staff

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