

theCHEMICALbulletin

OCTOBER • 1999

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY REGULAR MONTHLY MEETING

FRIDAY, OCTOBER 22, 1999

Wellington of Arlington
2121 S. Arlington Heights Road
Arlington Heights, IL

DIRECTIONS TO THE MEETING

From Chicago: Take Interstate 90 (Northwest Tollway) west to Arlington Heights Road exit. Proceed north to the restaurant.

From the Southwest: Take 355 north to Route 53 north and exit at Algonquin Road east. Go to Arlington Heights Road. Turn left (north) and proceed to the restaurant.

FREE PARKING

TOPICAL GROUP 5:00-6:00 P.M.
(NOTE TIME CHANGE)

NOTE LOCATION CHANGE: Forest View High School (within minutes of Wellington Restaurant) Arlington Heights, IL

DIRECTIONS TO TOPICAL GROUP:

Take Interstate 90 west to Arlington Heights Road North and proceed to Route 62 (Algonquin Road). Turn right and proceed to next stoplight (Goebbert Road). Turn left and proceed several blocks to Forest View High School. The Topical Group presentation will be in the middle wing near the South entrance.

Dr. Jon Zerkowski, Assistant, Loyola University of Chicago, Chicago, IL "Solid-Phase Synthesis of Constrained Oligomers: Pearls of Wisdom about Beads".

By exploiting the pseudodilution effect, specific intramolecular constraints can be built into a biopolymer during its stepwise synthesis on an insoluble resin. This talk will survey some recent applications of macrocyclization technology using solid-phase organic chemistry.

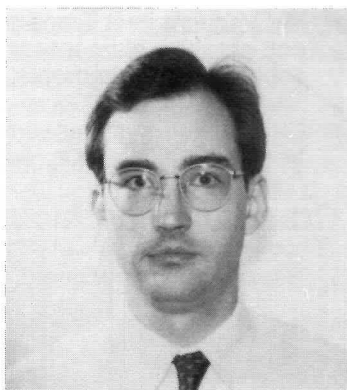
SOCIAL HOUR 6:00-7:00 P.M.

DINNER 7:00 P.M.

Dinner reservations are required and should be received in the section office (847/647-8405) by noon on Tuesday, October 19, 1999. Dinner cost is \$23 to Section members who have paid their local section dues, members' families, visiting ACS members. Cost to non-members is \$25. Seating will be available for those who wish to attend the meeting without dinner. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinners ordered. No-shows will be billed.

The menu consists of Soup du jour, tossed salad, combination boneless breast of chicken and roast sirloin of beef, baked potato, vegetable, rolls and butter, chocolate parfait, and beverage. Boston Scrod can be requested at time of reservation.

GENERAL MEETING 8:00 P.M.



THE TOPIC:

Patrick Murray, Group Leader, Nalco Chemical Company, Naperville IL, "Production of Water Soluble Polymers as Water-Conditioning Dispersions".

High molecular weight water soluble polymers derived from acrylamide are widely used as process aids and water treatment agents in a variety of industri-

al operations. Historically, these polymers have been produced as water-in-oil emulsions or as dry powders. The water-in-oil emulsions, or "latex" polymers, require that large quantities of oil and surfactants be employed in their manufacture, and these oils and surfactants are introduced to the environment along with the active polymer component. The dry powder polymers are energy intensive to manufacture, notoriously difficult to re-dissolve in water, and constitute an exposure (dusting) hazard. In order to overcome the disadvantages associated with the

(continued on page 2)

JOB CLUB

The next meeting of the Chicago Section Job Club will be held on Friday, October 22 at Wellington of Arlington at 5 p.m. 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.

Should you wish to attend the Section meeting following the Job Club, the fee for unemployed members is only \$12, and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

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

(continued from page 1)

water-in-oil emulsions and dry powder polymers, Nalco had developed and commercialized a unique homogeneous dispersion polymerization technology to manufacture these important polymers as liquids in aqueous salt solution. This technology provides for a number of environmental advantages associated with both the manufacture and the application of these polymers.

THE SPEAKER:

Patrick Murray is a group leader in the polymer science department at Nalco Chemical Company in Naperville, Illinois. He received his undergraduate education at Illinois Benedictine College (B.S. in Biochemistry, 1989) and carried out graduate studies at the University of Illinois at Urbana (Ph.D. Organic Chemistry, 1994).

SUPPORT PROJECT SEED

Project SEED (Summer Educational Experience for Economically Disadvantaged) for high school students is a program providing high school students from economically-disadvantaged backgrounds opportunities to experience the challenges and rewards of chemically-related sciences. The program provides students a chance to conduct hands-on research and learn what it's like to work as part of a team for eight to ten weeks during the summer with scientists in academic, industrial, or government research labs.

Each student does a chemical research project under the direct supervision of a scientist/mentor (called a preceptor). Students receive a stipend of \$1,750-2,000, depending on whether it is their first or second summer in the program. Students also get the chance to present their work at a poster session during a National meeting.

Since its inception in 1968, more than 4,000 youths have participated nationwide. For the Chicago area, less than 70 students have participated---not because we don't have students that qualify or aren't interested in the program (each year we can find plenty of students), but due to lack of academic, industrial, and governmental scientists willing to be mentors. We continue to have the few, dedicated scientists who have been involved in the program several years-- and we salute you!

In order to get more Chicagoland students involved in the program, we need two things: 1) more funding from Chicagoland corporations, foundations, and individuals to sponsor our students and 2) more scientists willing to partici-

pate as mentors/preceptors to foster the successful continuance and growth of this worthy program in the Chicago area for scientifically promising, but economically disadvantaged high school students.

If you are interested in mentoring a student, contact the ACS National Project SEED office at (202) 872-4380 for an application.

For you scientists who are NSF, NIH, or PRF grant holders, it is possible that you can get funding to sponsor a Project SEED student within your proposed

research programs. Check with the SEED office at (202) 872-4380 or (202) 872-6169.

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

CHERLYN BRADLEY AND CHARLES CANNON
Co-Chairs of Chicago Section's Project SEED Committee

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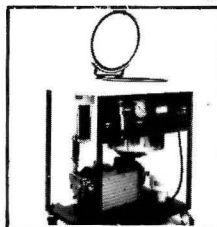
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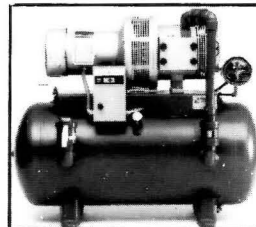
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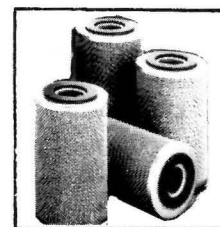
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"CHEM SHORTS" For Kids

This column is presented by the Elementary Education Committee. They hope that it will reach young children and help increase science literacy. Please cut it out and pass it on to your children, grandchildren, or elementary teachers. It is hoped that teachers will try to incorporate some of these projects in this column into their lesson plans.

Clearly It's Vitamin C

Kids, which has more vitamin C in it: Tang® drink mix or orange juice? Let's use some chemistry and a color test to find out. Have an adult make an iodine solution by adding 1 teaspoon of tincture of iodine to 1 tablespoon of water in a labeled plastic cup. Use two 8-oz plastic cups to make a starch solution: dissolve the 4 starch pellets (biodegradable packing peanuts available at mailing supply stores) in 1/2 cup of water. Cover the other cup with a coffee filter in an indented bowl-like shape. Pour the starch solution through the filter and label this clear solution as "Starch". Label three 3-oz plastic cups as "Vitamin C Test", "Tang Test", and "Orange Juice Test", and put 1 tablespoon of starch solution in each. Now add 1 drop of the iodine solution to each test cup using an eyedropper. What happens? They should all turn blue from the starch/iodine complex that forms. Label a fourth cup "Vitamin C Solution". Crush up a vitamin C tablet, put it in the cup, and add 2 tablespoons of water with stirring. Now place 1 drop of this vitamin C solution in its test cup ("Vitamin C Test") and swirl. What happens? (If nothing happens add another drop). Next mix 3/4 teaspoon of Tang® powder in 2 tablespoons of water in the fifth cup and label it "Tang Drink". Put a drop of this drink in the Tang Test cup. Does it take more drops to turn the solution clear than vitamin C? Lastly, add 1 drop of orange juice to its test cup. Does anything happen? How many drops of orange juice does it take for this solution to become clear?

So which has more vitamin C in it, Tang® or orange juice? The more vitamin C a solution has, the fewer drops it takes to turn the starch/iodine solution clear. So the fewer drops it takes, the more vitamin C the solution has. Try testing some other drinks for vitamin C, such as calcium-fortified orange juice, orange soda, lemon-lime soda, cranberry juice, or anything that says "ascorbic acid" (another way of saying vitamin C) in the list of ingredients.

P.S. The tablet should have the most vitamin C, followed by Tang, and lastly the orange juice (which has the least).

Reference: "WonderScience" from the American Chemical Society, 1999, vol. 13(6), issue on chemistry & color (ACS, 1155 Sixteenth St., N.W., Washington, DC 20036).

"ChemShorts" are on the internet at: <http://membership.acs.org/C/Chicago/ChmShort/kidindex.html>

KATHLEEN CARRADO
Elementary Education Committee.

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SCIENCE INSTITUTE AT COLUMBIA COLLEGE

The Science Institute at Columbia College Chicago dedicated the use of all its facilities this summer to teachers and students from the Chicago public schools. The objectives for the two groups were the study of chemistry and assurance of quality chemistry instruction in the Chicago public schools.

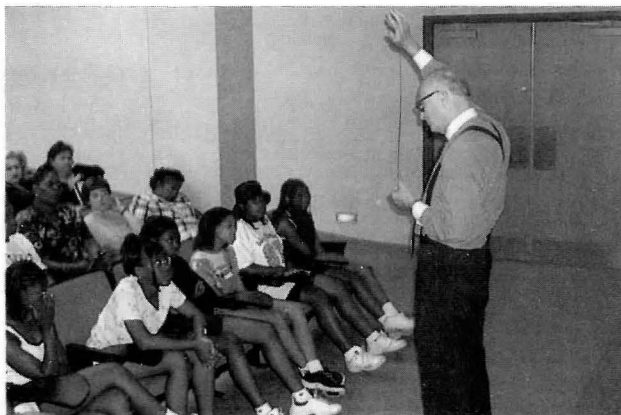
One group consisted of Chicago Public School teachers, who worked six hours each day with Science Institute staff and peer Master Teachers to learn content, hands-on experiments, methodology, and alternative methods of assessing their students.

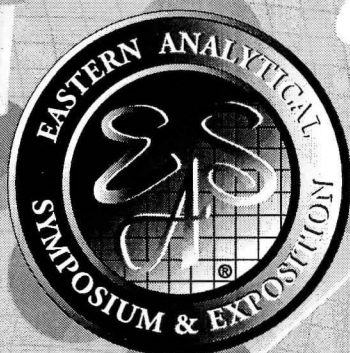
Next door to the teachers, eighth-grade inner-city students enjoyed engaging in hands-on environmental science activities during the Science Institute's Summer Science Camp.

On a few occasions, the two groups were brought together to participate in

joint activities. A visit with Dr. Alan Schriesheim, Director Emeritus of the Argonne National Laboratories and chair of Governor Ryan's Commission on Science and Technology, was the culminating highlight for both groups. Dr. Schriesheim answered many questions from the students and the teachers concerning societal issues related to chemistry. The children and the teachers alike were extremely impressed that someone with Dr. Schriesheim's credentials made the time to meet with them.

Dr. Schriesheim encouraged the children to pursue careers in chemistry and encouraged the teachers to make chemistry a prominent part of their lessons. After meeting with Dr. Schriesheim, many of the children expressed the desire to become scientists.





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ACS NATIONAL MEETING

The ACS Council Meeting opened with Memorial Resolutions for deceased Councilors, including Hertsell Conway from Chicago.

The Council voted to (unanimous unless noted):

Approve a petition clarifying the ground rules for the affiliation of the ACS (or any of its parts) with other technical organizations

Approve a revision of the Charge to the Committee of Professional Relations (CPR)

Approve a change of status of the CPR to a Joint Board Council Committee

Approve the expand the duties of the Committee on Publications to include those of the Committee on Copyrights, and to discharge the latter

Approve the change in effective dates of ACS membership from quarterly to daily (near unanimous)

Approve the change in responsibility for setting the surcharge for foreign delivery of C&EN from the

Board/Council to the Governing Board for Publications.

The Council also approved (majority) to accept the latest redistricting plan for the 6 voting Regions of the ACS, with some objections from some of the affected Local Sections. This redistricting was necessitated by continuing shifts in the population of ACS members, producing Regional variances in excess of regulations. A related petition to address the Regional population variance by allowing more of a variance was defeated.

The largest issue before Council was a plan from the Meetings and Expositions Committee (M&E) to allow the National ACS Meetings to break even financially. A recent decision by the ACS Board to increase the amount of National Office overhead assigned to the budget of National Meetings would result in a continuing increase in deficits for future meetings. M&E proposed not only to continue to increase the cost of full meeting registration, but also to increase the cost of various discounted categories, including teachers and students.

Debate raged for almost an hour, with many deploring the original decision to reassign overhead costs. However, any change in that policy is not going to happen, so amendments were

proposed (involvement by Marsha Phillips) to modify the rate increases for precollegiate teachers (approved); freeze the rates for undergraduates (defeated; undergraduate student rates will gradually increase but attendance will be monitored for adverse effects), and to recommit the motion to committee (defeated). The amended motion was narrowly passed.

Other news about the meeting includes registered attendance of 9738 and continuing news from NECH favorable to job seekers.

ROBERT E. BUNTROCK
Councilor, Chicago Section

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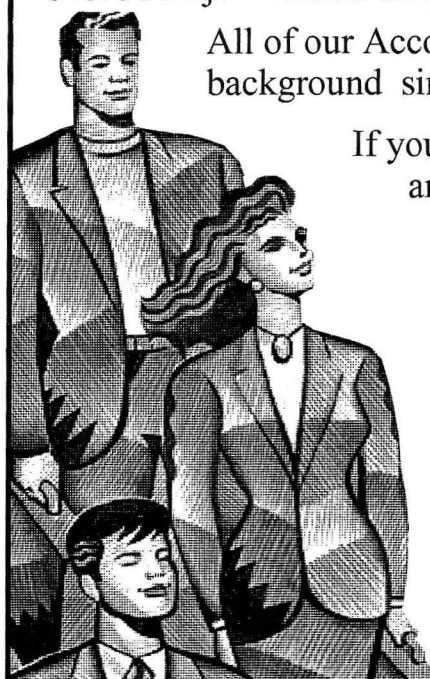
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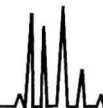
**Deadlines for receipt of
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October 15, 1999 – Meetings between
January 1 & June 30, 2000
March 15, 2000 – Meetings between
July 1 & December 31, 2000

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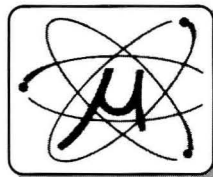
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KIDS & CHEMISTRY

The Kids & Chemistry program started three years ago in the Chicagoland area. The program has continued this year and expanded to several schools. To the delight of the teachers and students teams of scientists visited fourth and fifth grade classrooms performing hands-on chemistry experiments with students.

Each class received one to six visits approximately one hour in length each. The Chicago Section of the ACS would like to thank the following scientists for giving their time and expertise to this program. The team that visited Middleton School in Skokie included, Kurt Sedo, Anita Duggan, Alan Opsahl, John Lambert, Aldo Crovetto, Peter Senese, Everett Lee, Greg Ames, Caroline Dudowski, Sara Bergman, Tina Szafoni, Terri Fraterfigo, Darryl Prater, Mumtaz Hus-sain, Igantius Egwu, Henry Sharton, Marty Mackin, Julius Wagman, John Suerth, Randy Fronek, Carlos Orihuela, Merry Sandford, Randy Gapud, Julie Miyashiro, Steve Houdek, Heather Sten-mark, John Smarelli, Sabrina Morton, Per Blomquist, Daryl Szysfa, Linda Tam, Paul Wrezel, Sue Soura, Marci English, Tony Guy and Andrew Chay. These scientists were from Searle, Loyola University, AJ Crovetto & Associates Inc., Fort Dearborn Co., and retirees. The team that visited Highland School in Skokie included Dave Akjyama, Layla K. Broad-us, Helen S. Bronder, Helga Bush, Ed R. Coronel, Ann Czyzewski, Matt DeMonic, Jan B. Fang, Gail Freeman, Asima Hai, Yasmeen Hasan, Douglas Hoffman, Nick Hoffmeister, Beth A. Johnsen, Catherine Jung, Susanna Lai, Clay Little, Remy Lynn, Jodi Moe, Holly Opalenik, Michelle Potee, Steven Spicka, Tom Watanabe, Paul Wright, and Jerry Wysocki all from Searle. Also on the team were parents Richard Perlin, Wayne Rubenstein, Debby Kadet, Andrey Kuznetsov, Dan Koch, Candy Black, Jacob Farbet, Emmanuelle Siler, Tom Carson, Genie Shewrakramani, Ira Durbin, Donna Heller, Padmini Sathiaselalan and Steve Bush. A key person in getting the funding from Monsanto/Searle which supports both Middleton and Highland Schools is Arni Miller.

Margaret Winker Cook organized a group of Northwestern University students including Brigit Riley, Jason O'Bryant, Brooke Weinger and Brendan Crowley to service Hubbard Woods School in Winnetka. Critical to the success were Kimeri Swanson and Bob Golden from Hubbard Woods School.

Amcol International, Inc. has continued its participation at Riley School in Arlington Heights and received a certificate of appreciation from the school.

Jim Ancmon and Patrick Davis were the coordinators. Terry Volkman from Human Resources and John Hughes, CEO supported the program. They visited four 4/5th grade classes twice each during the year. A finale for the year included chemical demonstrations, certificates for the kids, gifts for the teachers and a pizza lunch catered by Amcol International, Inc. Santa Maria del popolo School in Mundelein was visited by volunteers Hanne Broockmann, Eric Geiger, Jean Goze, Laura Hanson, Shawn Hawk, Peter Held, Cathy Sporer and Peg Tierney all from Stepan.

Copeland Manor School in Libertyville was visited by volunteers Mike Cerney, Brian Dayton, Peer Jacobson, Randy Makela, Denise Wilcox from Abbott and Peter Held from Stepan.

Volunteers Bruce Baldi, Thomas Borkman, Mike Doremus, Jennifer Freeman, Joan Garrapolo, Joseph Pasini Donald Vefiee from Abbott and Peter Heid from Stepan worked with Rockland School in Libertyville.

Finally, Monsanto Company funded the program at Avoca West School in Glenview with volunteers Linda Tam, Kyle Kolaja, Ann Zaiser, Per Blomquist from Searle, Lecia Apantaku from the University of Chicago and the following parents, Miko Ito, Karen Steinemann, Agata Mikolajczyk and Mely Yu E1-Shourbagy.

The ACS would like to thank these fine people for their community service. For further information concerning the program, please contact the ACS office, (847) 647-8405.

ANN LEVINSON, Kids & Chemistry
Chairman

IN THE NEWS

MediChem Research, Inc., a contract research organization specializing in chemistry as it applies to new drug discovery and development, has opened customer service and business-development offices in South San Francisco, CA, and New London, CT. The offices position MediChem, which is headquartered outside Chicago, near several of the pharmaceutical and biotechnology companies it serves in the San Francisco, San Diego and Seattle markets, as well as throughout the Connecticut, New Jersey and Cambridge/Boston, MA, areas. MediChem assists customers through combinatorial chemistry, custom synthesis, cGMP synthesis and analytical services.


Ricerca, Inc. has appointed Terry L. Foster, Ph.D. as Director, pharmaceutical Business Development. Dr. Foster will spearhead Ricerca's sales and market development efforts to the pharmaceutical and biotechnology industries as part of Ricerca's strategy to expand its client base in these markets. Ricerca intends to become a premier provider of pharmaceutical research and development services in these industries by utilizing Dr. Foster's expertise in developing and building client relationships to achieve significant growth in market share.

Dr. Foster has over 20 years of business cultivation and management experience in the pharmaceutical industry encompassing clinical trials, medical device development, and pharmaceutical chemistry with such companies as Collaborative Clinical Research, Healthquest Therapy & Research Institute, Abbott Laboratories, and Faideigh Dickinson Laboratories, Inc. His professional experience also includes more than 13 years of university research and teaching. Dr. Foster is a member of AAPS, ASM, and DIA. He received his Ph.D. from Texas A&M University.

RETURN IT TO ACS

If you are a member who has received an invitation to join ACS, please accept our apologies. When you receive a membership invitation in error, please mark "Already a Member" on the application and return it to us in the postage-paid envelope. We will then suppress this name and/or address variation in future "merge/purges" to ensure that we omit it from our membership invitation mailings.

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LOCAL HIGH SCHOOL CHEMISTRY AWARD

Many sections have an Awards or Education Committee already in place; and these committees have been soliciting nominations for local section awards to high school chemistry teachers for a long time.

Why not enhance your local section award for high school chemistry teachers by submitting your winning recipient's application to the ACS for a chance at an ACS Regional Award? As an added bonus, the recipient of an ACS Regional Award in High School Chemistry Teaching automatically becomes a candidate the following year for an ACS National Award - the James Bryant Conant Award.

Many inspiring and dedicated chemistry teachers serve our high schools. In most cases, it was that really great high school chemistry teacher that sparked your interest into becoming a chemist. Get your section moving to submit a nomination of an outstanding teacher to be recognized in 2000.

Who Can Be Nominated?

A nominee must be actively engaged in the teaching of chemistry in a high school (grades 9 through 12) either in the territory of a local section in the region or in territory within the geographic region but not assigned to any local section.

What's Needed?

The nomination must include a biographical sketch of the nominee with date of birth; a list of publications, if any; and a statement and evaluation of the nominee's achievements as a teacher of high school chemistry. The document should clearly demonstrate as many of the following attributes as possible: (1) the quality of the candidate's teaching (unusually effective methods of presentation should be emphasized); (2) ability to challenge and inspire students; (3) extracurricular work in chemistry by the candidate, including science fairs, science clubs, and activities that stimulate the interest of young people in chemistry and related sciences; (4) willingness to keep up to date in the field, as evidenced by pursuit of a higher degree in chemistry, enrollment in refresher courses and summer institutes, regular attendance at scientific meetings, and other means of self-improvement.

Seconding letters are not essential; as many as five, however, may be included with each nomination. Only those that contain factual information

about the candidate not provided in the nominating document will be transmitted to the selection committee. Such letters may include careful evaluations of the teacher's effectiveness by a supervisor or principal, by associates, or by members of the Society who have visited the nominee's classes. Letters from currently enrolled high school students are not acceptable.

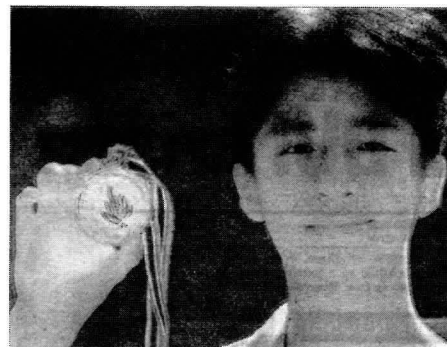
Who Can Nominate?

Any individual, except a member of the Award Committee or a currently enrolled student of the nominee, may submit one nomination or seconding letter in any given year. Local Sections of the Society may also nominate candidates for the award in their region.

Where Do I Send The Application?

Six copies of the complete nominating document (including reprints or other supplementary material) must be furnished. Deadline for receipt of the nomination is November 15, 1999 for the year 2000 award. Contact Cheryl Brown at the ACS for more information and a nomination form. The address is: 1155 16th Street, NW, Washington, DC 20036; Tel: 800/227-5558 ext. 6022; e-mail: c_brown@acs.org.

The regional award consists of an appropriate certificate prepared by the Society and a cash prize of \$1000. The certificate will bear the title "American Chemical Society (insert name of region) Regional Award in High School Chemistry Teaching." The award will be presented at the annual regional meeting. Travel expenses for the recipient to the regional meeting at which the award will be presented will be reimbursed by the Society.



CHEMISTRY OLYMPIAD

Congratulations to Ann Levinson. One of her students, Alexander Ho won a gold medal in Bangkok at the 31st International Chemistry Olympiad. He is a graduate of Niles West High School. He will be attending the University of Illinois at Chicago. He will be majoring in medicine. Congratulations also go to Alex for his outstanding achievement.

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ORGANIC LETTERS

The ACS is pleased to announce that the premier print issue of Organic Letters, the all-new web and print periodical designed to deliver rapid, brief reports on significant research in all areas of organic chemistry will debut at the 36th National Organic Chemistry Symposium, June 13-17, 1999, at the University of Wisconsin.

This premier print edition follows publication of the web edition, which debuted on ACS's web site on May 17, 1999, <<http://www.pubs.acs.org>>. More than sixty articles have been published on the web to date, preceding the print edition by several weeks.

Aiding the speed of publication is the new Web submission process developed by ACS Publications specifically for Organic Letters. Editor-in-Chief, Amos B. Smith III, reports that over 65% of the papers in the inaugural issue were submitted via the Web using the electronic template. The process allows authors to format and submit manuscripts online and also includes a Web site for galley review and approval by authors. Peer review of manuscripts also takes full advantage off the speed of the web.

Using ACS's trademark Articles ASAP (As Soon as Publishable), Organ-

ic Letters allows access to full-text articles in both HTML and PDF formats within 48 hours of author approval.

Organic Letters is the first of three journals to be published by ACS under an innovative collaboration with the Association for Research Libraries, through its Scholarly Publishing and Academic Resources Coalition (SPARC).

Robert D. Bovenshulte, who directs the Society's publishing efforts, said, "From pricing to peer-review, Organic Letters is an extraordinary important journal, not only in itself, but because it is testing innovations that could change the face of research publishing."

Featuring an international editorial advisory board, Organic Letters' regular full-year institutional subscription rate is \$2,300. A special 1999 half-year institutional print rate of \$1,150 includes FREE web access through the remainder of 1999 as part of the subscription price.

To learn more about his new publication, or to inquire about subscriptions, call 1-800-333-9511 or visit the Organic Letters Web site at <<http://pubs.acs.org/orglet>>.

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NOMINATIONS SOUGHT

The Gustavus John Esselen Award for Chemistry in the public interest is one of the most prestigious honors provided by the Northeastern Section of the American Chemical Society. The award annually recognizes a chemist whose scientific and technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The significance of the work should have become apparent within the five years preceding nomination, and the Awardee shall be a living resident of the United States or Canada at the time of nomination.

The Esselen Award has no limitations with respect to the Chemical field in which the nominees are active. Since its inception the following awards have been given:

- 1987: F. Sherwood Rowland, University of California at Irvine, and Mario J. Molina, now at The Massachusetts Institute of Technology. *Discovery of the Influence of Chlorofluorocarbons on the Ozone Layer.*
- 1988: Alfred P. Wolf and Joanna S. Fowler, Brookhaven National Laboratories. *Chemical Procedures to Make Positron Emission Tomography a Practical Method in Medical Diagnosis.*
- 1989: Carl Djerassi, Stanford University. *Synthesis and Promotion of the First and Most Common Birth Control Hormone.*
- 1990: Thomas J. Dougherty, Roswell Park Cancer Institute. *The Development of Photodynamic Therapy for the Treatment of Malignant Disease.*
- 1991: Jettold Meinwald and Thomas Eisner, Cornell University. *Chemical Responses in the Insect and Plant World.*
- 1992: Bruce N. Ames, University of California at Berkeley. *Methods for Detection of Carcinogens and Causes of Aging and Cancer.*
- 1993: James G. Anderson, Harvard University. *Experimental Methods for Measuring Global Ozone Loss.*
- 1994: Kary B. Mullis. *The Discovery of polymerase Chain Reactions (PCR) for the Replication of DNA Molecules.*
- 1995: Howard J. Schaeffer, Burroughs Wellcome Company. *Nucleosides with Antiviral Activity - The Discovery of Acyclovir (Zovirax®).*
- 1996: Roy G. Gordon, Harvard University. *Low Emissivity Glass;*

Energy Conserving Windows.

- 1997: Rangaswamy Srinivasan, UVTech Associates, *The Widely Used Laser Methodology of Tiny Focused Ablative Photodecomposition.*
- 1998: Kyriacos C. Nicolaou, Scripps Research Institute, *Chemical Synthesis and Chemical Biology of Natural Substances.*
- 1999: Robert S. Langer, Massachusetts Institute of Technology, *The Development of Unique Polymers for Medical Applications.*

THE AWARD CONSISTS OF A BRONZE MEDAL AND A CHECK FOR \$5,000. Travel expenses incidental to the conferring of this award will be reimbursed. The award is normally given in Cambridge, Massachusetts at the April meeting of the Northeastern Section. The Awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest.

TO NOMINATE a candidate please

provide the names of two co-sponsors as well as a brief biography of the candidate, a description of the work which has been recognized as communicating the positive values of the chemistry profession, and copies of selected, pertinent articles. Popular news and feature articles should be included as an indication of public interest. Nominations and inquiries should be directed to Dr. Iclal S. Hartman, 131 Shade Street, Lexington, MA 02421. **NOMINATIONS SHOULD BE POSTED NO LATER THAN NOVEMBER 1 1999.** Joint nominations are acceptable. The Committee will review the nominations and the award recipient will be notified by the first of February.

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CALENDAR

October 3-8, 1999. The American Chemical Society in cooperation with Virginia Tech presents "Introduction to Polymeric Adhesives and Composites" (PADH9910) at the Four Points Hotel by Sheraton in Blacksburg, VA. For more information call the ACS Short Course Office at (800) 227-5558, ext. 4508.

October 8, 1999. The 1999 ACS Inorganic Award Seminar sponsored by Aldrich Chemical Company will be presented by Professor Richard D. Adams, University of South Carolina on "The Genesis of Catalysts for the Macrocyclization of Thietanes and Thiiranes". The seminar will be held at 4 p.m. in Room LR3, Technological Institute, Northwestern University, 2145 Sheridan Road, Evanston, IL. For further information contact Dianne de Haseth, Department Assistant at (847) 467-1802.

October 12, 1999. Environmental Resource Center presents "RCRA an DOT Annual Update and Refresher Training" at the Ramada Plaza Hotel O'Hare in Chicago, IL. For additional information contact Victoria at (800) 537-2372 ext. 222.

October 13, 1999. Environmental Resource Center presents "EPA's Storm Water Permits & Pollution Prevention Plans" at the Ramada Plaza Hotel O'Hare in Chicago, IL. For further information contact Victoria at (800) 537-2372 ext. 222.

October 21-22, 1999. The American Chemical Society presents "Frontiers in Inorganic Polymers" (INPO9910) at the Philadelphia Marriott in Philadelphia, PA. For more information call the ACS Short Course Office at (800) 227-5558, ext. 4508.

October 27-29, 1999. The 20th Annual Conference of the Analytical Laboratory Managers Association will meet at Argonne National Laboratory in Argonne, IL. For additional information call the ALMA at (505) 989-4683.

October 29, 1999. The 1999 Fred Basolo Medal Lecture will be presented by Professor Thomas J. Meyers, University of North Carolina on "Proton-Coupled Electron Transfer". The lecture will be held at 4 p.m. in Room LR3, Technological Institute, Northwestern University, 2145 Sheridan Road, Evanston, IL. For further information contact Dianne de Haseth, Department Assistant at (847) 467-1802.

November 12-14, 1999. The ASTM Committee E-47 on Biological Effects and Environmental Fate will meet in conjunction with SEATAC at the Marriott Philadelphia in Philadelphia, PA. For more information call Len Morrissey, ASTM at (610) 832-9730.

November 14-19, 1999. The 38th Annual Eastern Analytical Symposium & Exposition will be held in Somerset, New Jersey. For further information call (302) 738-6218.

November 19, 1999. The Chicago Section American Chemical Society presents Derek Davenport on "The Royal Institution of Great Britain 1799-1999" to be held at Monty's in Bensenville. For more information call the Section office at (847) 647-8405.

December 5-10, 1999. The American Chemical Society in cooperation with Virginia Tech presents "Polymer Chemistry: Principles and Practice" (PCPP9912) at the Four Points Hotel by Sheraton in Blacksburg, Virginia. For additional information call the ACS Short Course Office at (800) 227-5558, ext. 4508.

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