



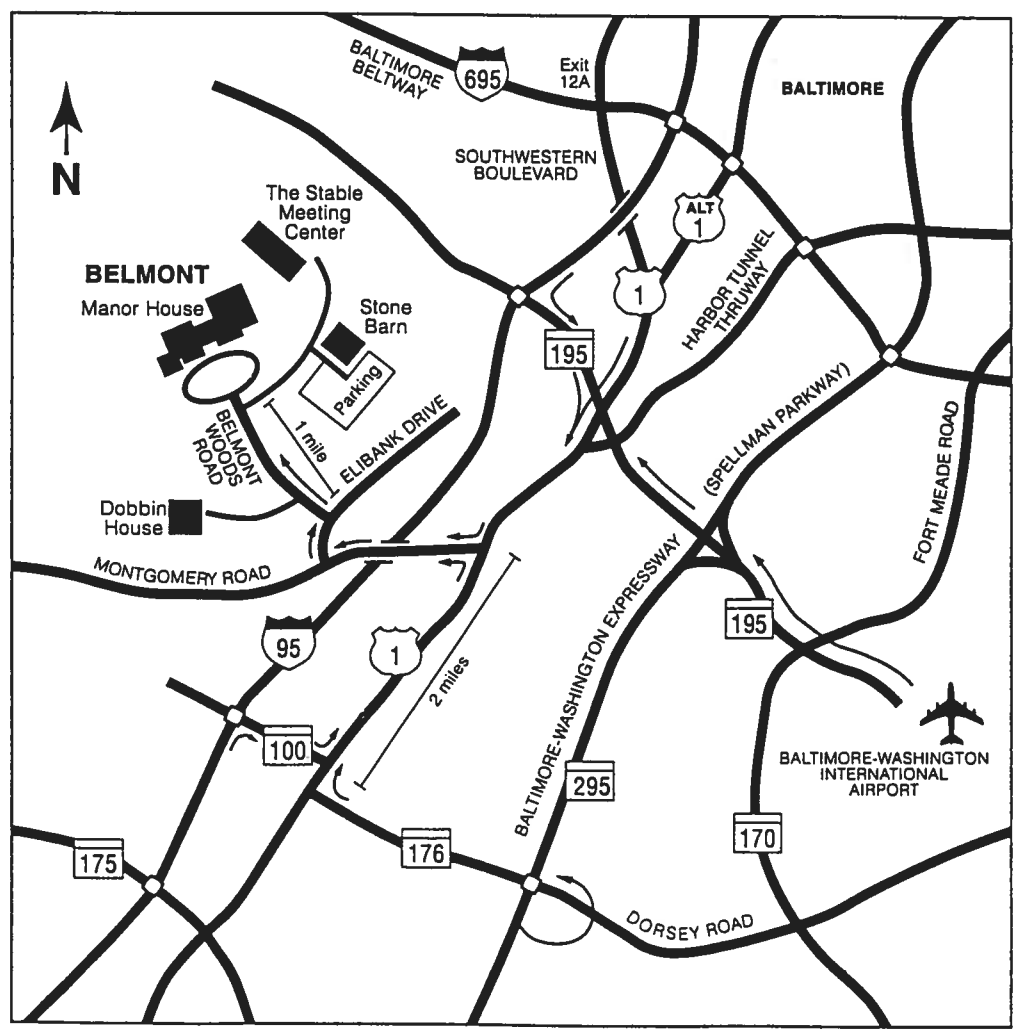
THE CHESAPEAKE CHEMIST


MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. LV

OCTOBER, 1999

NUMBER 7





Looking
For Real
Solutions
To Your
Analytical
Problems?

Then look no further...
the place to enhance your
knowledge in the analytical
and allied sciences is EAS!

At the Eastern Analytical Symposium & Exposition,
we take great pride in presenting an excellent
technical program, with over 600 invited and
contributed papers. The emphasis for presentations
is on cutting edge science and relates to real problems
faced by scientists in all fields. EAS offers more than
80 workshops, seminars and short courses; featuring
lectures, demonstrations, and/or hands-on experience
presented by speakers from exhibiting companies.
We've worked hard to bring together over 235 exhibitors
to provide scientists with a convenient single location to
meet and discuss a vendor's product, new equipment,
services, analytical techniques, and technologies.

Come to the Garden State Convention Center
in Somerset, New Jersey on November 14-19, 1999.
Don't miss this incredible opportunity to be a part of the
best Analytical Symposium & Exposition ever!

For more information visit
our EAS web site:
<http://www.eas.org/>

EAS Hotline: 1-302-738-6218 • Faxline: 1-302-738-5275 • email: easinfo@aol.com



THE CHESAPEAKE CHEMIST

VOL. LV

OCTOBER, 1999

NUMBER 7

THE CHESAPEAKE CHEMIST STAFF

Raymond C. Petersen.....Editor
9329 Joey Drive
Ellicott City, MD 21042
410/465-8520

Bruce L. Solnick.....Business Manager
3027 Parktowne Blvd.
Baltimore, MD 21234
410/882-6819

SECTION OFFICERS

Mark Greenberg.....Chair
College of Graduate & Extended Education
Towson University
7800 York Road
Towson, MD 21252-0001
410/830-2283 Fax 410/830-3525
e-mail: mgreenberg@towson.edu

Victoria Kuntz.....Vice Chair
12 Danforth Court
Towson, MD 21204
410/821-5042 (H)
e-mail: VAKuntz@aol.com

Mark A. Gold.....Chair-elect
SCT Corp.
2219 Rogene Drive
Baltimore, MD 21209
410/358-7325
e-mail: mgold@sctcorp.com

Anna Kraut-Vass.....Secretary
10946 Baskerville Road
Reisterstown, MD 21136
410/526-3260
e-mail: AnnaKraut@aol.com

Robert von Tersch.....Treasurer
Chemistry Department
U. S. Naval Academy
Annapolis, MD 21402
410/293-6607 Fax 410/293-2218
e-mail: vontersch@nadn.navy.mil

COUNCILORS

Donald Jones.....Western Maryland College
703/306-1625 ext 6819

David Roswell.....Loyola College
410/617-5547

Charles Rowell.....U. S. Naval Academy
410/293-6602

Merle I. Eiss.....Home
410/484-0521

MEMBERS-AT-LARGE

Donald Hoster
Dale L. Whalen
Mike Ellzy

Catherine Fenselau
Asoka Katumuluwa

COMMITTEE CHAIRS

Remsen Award.....William White
ERDEC, Edgewood (410/436-3058)

Maryland Chemist Award.....Shekar Munavalli
700 Paige Circle.....(410/436-2819 [W])
Bel Air, MD 21014.....(410/838-7565 [H])

Maryland Service Award.....Shree Iyengar
Anne Arundel Comm. Coll.....(410/541-2266)

Student Awards.....Carl Minnier
Essex Community College
7201 Rossville Blvd.
Baltimore, MD 21237.....(410/780-6613)
e-mail: cminnier@essex.cc.md.us

Education.....Shirish Shah
National Chemistry Week.....
Victoria Kuntz (410/821-5042)
e-mail: VAKuntz@aol.com
Mark Gold (410/358-7325)

Chemistry Olympiad.....Mike Zapf
(410/771-7471)

Kids & Chemistry.....Shirish Shah
High School Teachers...Kathleen Thompson

Archives.....Ernest Silversmith
(443/885-3214)

House.....Shirish Shah
e-mail: sshah4@juno.com

Member Assistance.....Merle Eiss

Public Relations.....Shirish Shah
(410/532-5712 [W] Fax 410/532-5799)

Publicity.....Donald Jones

Finance.....Jan Kolakowski

Women Chemists.....Esther Gibbs
(410/337-6300)

Long Range Planning.....Shekar Munavalli
(410/671-2819)

Minorities.....Alfred Amah
(410/383-5777)

Career Planning.....Linh Cheong
(410/354-7747)

Government Relations.....Shirish Shah

Retired Chemists.....Alvin Bober
(410/581-5321)

Young Chemists.....Demetrius Michos
(410/531-4771)

MARM 2000.....Laurence Boucher
(410/830-3057)

ALTERNATE COUNCILORS

Elwin Penski
Shekar Munavalli

Joseph Topping
Linda Sweeting

The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to the Editor. Send advertising copy and inquiries to the Business Manager. The Maryland Section is not responsible for opinions expressed herein. Editorials express the opinions only of their authors. The Editor is responsible for all unsigned material.

October Dinner Meeting

Global Salute to Polymers

Historical Polymer Site Awards Presentation

Guilford Pharmaceuticals
PEMCO International
Baltimore Museum of Art

Date: Wednesday, October 13, 1999

Location: The Stable Training Facility
The Belmont
Belmont Woods Road
Elkridge, MD

6:00 PM Reception

7:00 PM Dinner (Chicken or Salmon can be specified with ten days notice; if no preference then chicken will be served)

8:00 PM Perspective on Polymers. Awards presentation and speakers. Awards to be presented by Maureen Chan, Regional Director, Global Salute to Polymers.

Speakers/Award Acceptors

Dr. Bill Vincek, Vice President, Pharmaceutical and Chemical Development, Guilford Pharmaceuticals

Dr. Robert Hoguet, Director of Operations, PEMCO International
Ms. Mary Sebera, Head Conservationist, Baltimore Museum of Art

Meeting Registration

Dinner price is \$19 per person; \$17 for retired members and spouses, and \$10 for students. Reservations must be made by 12:00 noon on Friday, October 8, by contacting Dr. Shirish Shah at 410/532-5712. The Belmont is located in Howard County, a short drive from BWI. From Highway 1, take Montgomery Road east to Elibank Drive. Belmont Woods Road is the first left. Call 410/796-4300 for more complete directions.

Historical Polymer Site Awards

The Maryland Section is participating in the Global Salute to Polymers by naming three local facilities as Historical Polymer Sites. The sites chosen are Guilford Pharmaceuticals (organic polymers), PEMCO International (inorganic polymers), and the Baltimore Museum of Art (positive public perception, education, and conservation). These three facilities represent the wide range of types and applications for polymers and are all great examples of polymer work being done in Maryland.

Guilford Pharmaceuticals developed the first successful treatment for brain cancer, the Gliadel wafer that uses a polymeric delivery system to get the medication to the diseased tissue. This work is of global significance and will have a positive impact on many lives. Polymers to the rescue!

PEMCO International has manufactured ceramics, enamels, and porcelain since 1911 in Baltimore. PEMCO made the ceramic and enamel materials used in the first tunnel under the harbor (the 895 tunnel) and makes the coatings for products such as Weber grills and the colorants for fine china. They have survived many names, SCM, Mobay, and Bayer, and have returned to being PEMCO International.

The Baltimore Museum of Art is being honored for their work in bringing one of the most beautiful applications of polymers – art, to the public and the conservation work done which brings science and art together. The BMA, through conservation, education, and public programs, brings the world of polymers to the public and preserves them for future generations to enjoy.

August Activities

On August 5th, at the Walters Art Gallery, volunteers from the Maryland Section helped with the Archimedes Palimpsest exhibit for the First Thursday event, which is free and open to the public. Hands-on experiments related to Archimedes such as levers, pulleys, Cartesian divers, flexible mirrors, and UV light (used to view the manuscript) were set-up for visitors as well as demonstrations on how Archimedes proved the crown was not gold and the volume relationships between cones, spheres, and cylinders. *Every section officer* volunteered as well as other section members. Other volunteers also came from the Physics and Math departments at Towson University, Talmudical Academy, and Guilford Pharmaceutical. More than 1000 visitors came to the event bringing our total visitors to over 1600 at the two events!

We want to thank Federal Hill Office Supply for donating the UV ink and the Physics Department at Towson University for use of pulleys, levers, and flexible mirrors. Thanks to the Walters Art Gallery and Lisa Weilman for making the connection between art and science for the community.

NOMINATIONS SOUGHT

GUSTAVUS JOHN ESSELEN AWARD FOR CHEMISTRY IN THE PUBLIC INTEREST

The 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 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.

The
American Chemical Society
announces a
Call for Nominations for the

2000 Regional Awards in High School Chemistry Teaching

A nominee must be actively engaged in the teaching of chemistry in a high school (grades 9 through 12)

Nominations can be made by any individual, except a member of the award committee or a currently enrolled student of the nominee. Local sections of the Society may nominate the recipients of section awards for high school teaching as well.

Nominations due November 15, 1999

For more information and an application form, please contact Cheryl Brown at c_brown@acs.org or at American Chemical Society
1155 Sixteenth St. NW; Washington, DC 20036
800/227-5558 ext. 6022

Applications invited for the 2000 Glenn E. and Barbara Hodsdon Ulliyot Scholarship

Philadelphia—The Chemical Heritage Foundation (CHF) is pleased to invite applications for the Glenn E. and Barbara Hodsdon Ulliyot Scholarship. The goal of the Ulliyot Scholarship is to advance public understanding of the importance of the chemical sciences and industries to the public welfare. Applications are invited from educators, graduate students, science writers, and journalists.

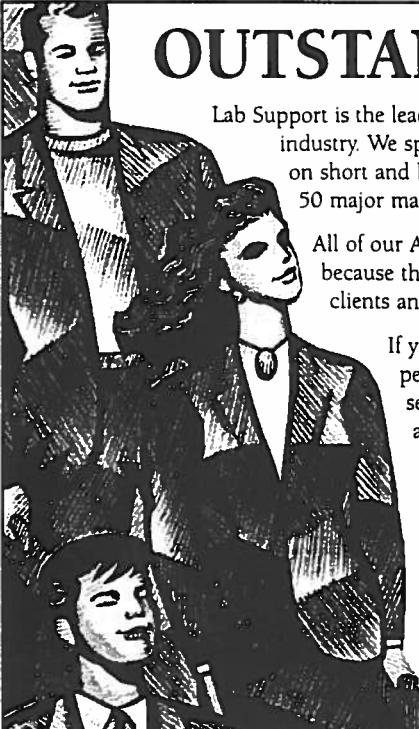
The fifth annual Ulliyot scholarship, which will be awarded for summer 2000, offers a stipend of \$3,500 plus modest travel and research support. The purpose of the stipend is to support a minimum of two months research on the heritage of the chemical sciences utilizing the resources of CHF's Othmer Library of Chemical History in Philadelphia, other area libraries, and associated resources.

Interested applicants should send their curriculum vitae and a one-page outline of the research project that includes a strategy for its application in furthering public understanding. The proposal should demonstrate how the resources of the Othmer Library are relevant to the applicant's project. Two letters of reference should be sent directly to CHF. Applications must be received by 15 February 2000 and should be sent to Leo Slater, Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, PA 19106; phone 215 873 8224; fax 215 925 1954.

The Chemical Heritage Foundation Announces the Winner of the 1999 Glenn E. and Barbara Hodsdon Ulliyot Scholarship

Philadelphia—The Chemical Heritage Foundation has awarded the 1999 Glenn E. and Barbara Hodsdon Ulliyot Scholarship to Mr. Gerard J. Fitzgerald. Mr. Fitzgerald is a doctoral student in the history department at Carnegie Mellon University, and a fellow in the Graduate Research and Training Program in Cold War Science and Technology, which is funded through the National Science Foundation. Fitzgerald is currently completing his dissertation, "From Prevention to Infection: Aerobiology, the Industrialization of Disease, and Biological Warfare in the United States, 1920-1960," which is a scientific and technological history of America's biological weapons programs during the twentieth century. He will be in residence at the Chemical Heritage Foundation for two months this summer, and plans to study the technical aspects of penicillin production that may have influenced biological weapon production.

The Glenn E. and Barbara Hodsdon Ulliyot Scholarship is made possible through the generosity of Glenn E. and Barbara Hodsdon Ulliyot. Glenn Edgar Ulliyot earned a B.S. in chemistry from the University of Minnesota and a M.S. and Ph.D. in chemistry from the University of Illinois. Ulliyot's primary scientific interests have been with medicinal chemistry, therapeutic agents and their biological activity. He has published many papers, received patents on numerous compounds, and played a significant role in the development of several major products at Smith Kline & French Laboratories (now SmithKline Beecham). Owing to his deep commitment to education, he established the Ulliyot Public Affairs Lecture and the Glenn E. and Barbara Hodsdon Ulliyot Scholarship at the Chemical Heritage Foundation, both of which are aimed at furthering public understanding of the chemical sciences and industries.




OUTSTANDING PEOPLE

Lab Support is the leader in the scientific professional staffing industry. We specialize in placing qualified degreed scientists on short and long-term assignments in laboratories in over 50 major markets throughout the United States and Canada.

All of our Account Managers make "quality assignments" because they have a background similar to that of our clients and of our employees.

If your company is looking for outstanding lab personnel or if you're an outstanding scientist seeking a new career offering variety, opportunity and a great benefit package, call Lab Support today.

On Assignment



LAB SUPPORT
Science Professionals On Assignment

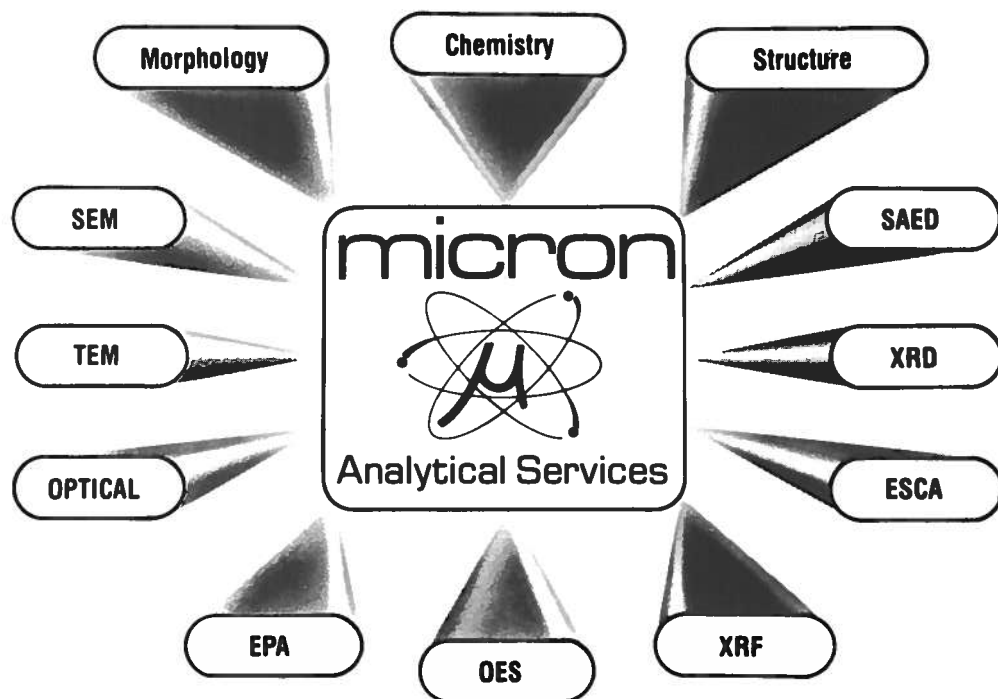
410-653-5371

26651 West Agoura Road • Calabasas, CA 91302
Nationwide: 1-800-998-3332 • <http://www.labsupport.com>

00117980 L301 08/30/99
DR YALE HOWARD CAPLAN
3411 PHILIPS DR
BALTIMORE MD 21208-1827

Nonprofit Org.
U. S. Postage
PAID
Baltimore, Md.
Permit No. 2917

PLEASE DO NOT DELAY — DATED NOTICE INSIDE



3815 Lancaster Pike Wilmington, Delaware 19805
(302) 998-1184

SCIENCE FAIR PARTICIPATION

The Maryland Section participated in the Science and Engineering Fair at Morgan State and the Towson/Kiwanis sponsored Baltimore Science Fair at Towson University. Both fairs were held in March.

In the Baltimore Science Fair Maryland Section first place awards went to Gregory Needle of Woodlawn High School in Division I and to Antardeb Guharay of Dunloggin Middle School in Division II. A second place award in Division II went to Natalie Kuperman of Burleigh Manor Middle School.

At the Morgan Science and Engineering Fair the Maryland Section's first prize in the senior division went to Gina Joshua of Milford Mill Academy while first prize in the junior division went to Lily Mendelson of Roland Park Middle School.

Persons serving as judges in March at Morgan and/or Towson included Kevin Lin, Michael Haller, Naru Ohja, Sarah Narayan, Robert Smith, Yvonne Ying, Victoria Kuntz, Scott Bembenek and Mike Waltz. Maryland Section and Mike Zapf extend thanks to these people.