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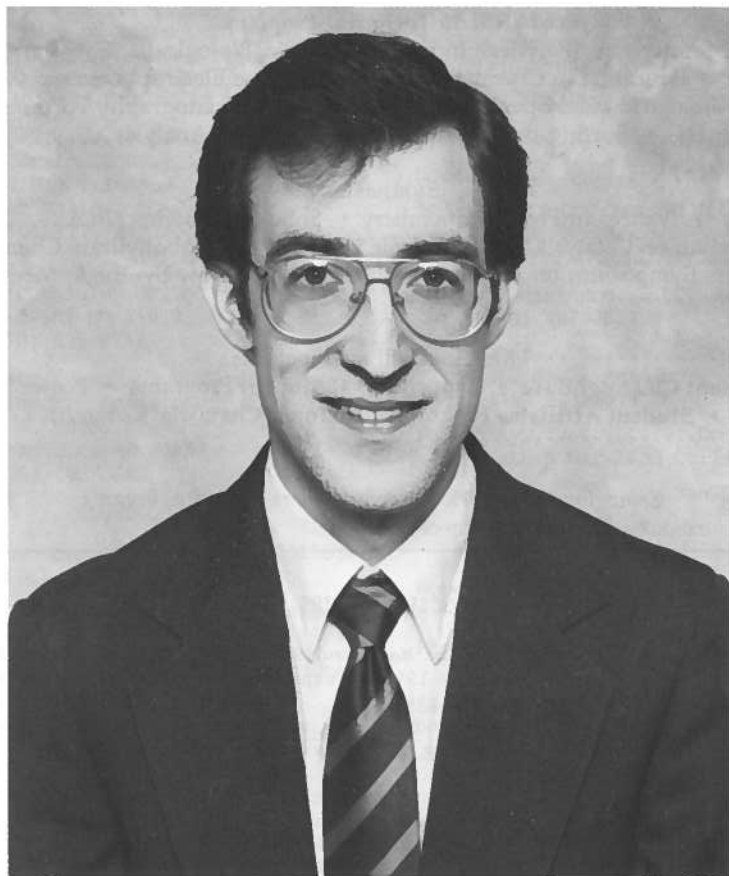
CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. LII

MARCH, 1996

NUMBER 3



DAVID J. McGARVEY



Villanova University and the Philadelphia Section ACS
seeks your participation in the

30th Middle Atlantic Regional Meeting

May 22 - May 24, 1996

Villanova University

Dr. Robert Giuliano, General Chair
Dr. Anthony W. Addison, Program Chair

MARM 96 Technical Program:

General Sessions in Analytical, Inorganic, Organic, Biological & Physical Chemistry

- Education in Chemistry • Capillary Zone Electrophoresis
- Biological Mass Spectrometry • Student Chromatography Forum
- Surfing the Internet • Environmental Analysis

Symposia

- Advances in Process Chemistry • Solid State Symposium
- Symposium on Catalysis with Inorganic Materials • Carbohydrate Chemistry
- Carothers Symposium on Polymer Architecture and New Synthetic Methods

Meeting will also include:

- Employment Clearinghouse • Exposition • Student Programs • Poster Sessions
- Student Affiliates Program • Younger Chemists' Committee

Come to the historical region where America began!!

SCIENCE FAIRS

The most recent involvement of the Maryland Section in the Baltimore Science Fair spans fourteen years, and in 1995 we expanded our efforts to include the Morgan State Science and Engineering Fair. Over the years we have awarded nearly one hundred certificates and plaques and a thousand dollars in savings bonds, in addition to entertaining numerous guests at our dinner meetings.

We want to acknowledge the many hours volunteered by our members to committee work and judging. Many members have served as judges for several years and they have enjoyed the fellowship and have always been impressed with the quality of the student projects. We thank these volunteers for their work.

We would like your help to continue this tradition. Won't you consider serving as a judge this year? The Baltimore Science Fair is held in late March and the Morgan Fair is in April. Please contact Mike Zapf for details.



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ACS AWARDS 201 SCHOLARSHIPS FOR 1995-96

The American Chemical Society (ACS) through its new Minority Scholarship Program, selected 201 African American, Hispanic, and American Indian students who will receive more than \$600,000 in scholarships for this academic year. Over the next five years, ACS expects to provide \$5 million to needy minority students with good academic records who plan to major in chemistry, biochemistry, or chemical engineering.

The scholarships are renewable and range in value up to \$2,500 each in freshman and sophomore years and \$5,000 each in junior and senior years, for a maximum of \$15,000 over a four-year period. Students may use the funds for tuition, books, supplies and lab fees, and lodging. Dorothy Rodmann, administrator of the ACS Minority Scholars Program, says it is intended to "give students financial support and encourage their interest in the study of chemical sciences." She adds that "we want to help students replace their loans with scholarship money and reduce their need to engage in work-study programs." Through the new scholarship program ACS hopes to increase interest in and participation by African Americans, Hispanics, and American Indians in the chemical sciences. Currently, their participation does not reflect the make up of the U.S. population. The scholarship program also offers mentoring services to the students.

CHINA AND IRAN SWEEP CHEMISTRY OLYMPIAD

Competing neck and neck, China and Iran scored big wins at the 27th International Chemistry Olympiad, held July 12-21 in Beijing.

For China, the results were true to its form in previous olympiads. But Iran's feat -- in just its third year of competition -- was stunning.

There is no official ranking of countries at the olympiad, which drew 163 students from 41 countries. However, China and Iran tied for the top spot on the basis of medals won, with each four-member team taking four gold medals. China's team members placed second, fourth, sixth, and eighth; the Iranians took first, third, fifth, and 20th.

Romania came in third with two golds and two silvers. Russia and the Czech Republic tied for fourth with two golds and two bronzes each.

The U.S. team garnered two silvers and two bronzes -- one of 18 delegations that garnered four medals. Jason C. Wong of Thomas Jefferson High School for Science & Technology in Alexandria, VA., placed 43rd and won a silver medal. Prashant Mishra of Detroit Country Day School, Beverly Hills, Michigan, ranked 56th and also got a silver medal. Bronze medals went to Elliot L. Waingold (79th) of Central York High School, York, PA, and G. Michael Sawka, Jr. (106th) of Gunn High School, Palo Alto, California.

China has been a dominant competitor since it first participated in 1987. This is the sixth year in a row it has finished first in the olympiad, which includes a five-hour lab exam and a five-hour theoretical exam.

-excerpted from C&EN, Maureen Rouhi

MARYLAND SECTION FUTURE MEETINGS

DATE	PLACE	SPEAKER	SUBJECT
April 17	Western Maryland	Jeffrey Smart	History of Chemical Warfare up to and Including the Civil War
May 15	Johns Hopkins	Awardee	Remsen Award

MARCH MEETING

DATE & PLACE

Wednesday, March 13, 1996
McCormick & Company
World Headquarters
Sparks, Maryland

Dinner reservations should be made by mailing checks, payable to Maryland Section of ACS, to

Dr. Shirish Shah
College of Notre Dame
4701 North Charles Street
Baltimore, MD 21210

SCHEDULE:

6:00 Reception by March 6. Late reservations may be made by calling (410) 532-6712

6:30 Dinner

7:30 Lecture by March 8. An answering machine is available at this number.
David J. McGarvey
"The Resurgence of Malaria"

It is not necessary to be a member of the American Chemical Society to attend. You may attend the lecture without attending the dinner.

Dinner price is \$16.00 per person, but spouses and retired chemists may attend for \$14.00; students may attend for \$8.00.

DIRECTIONS: Take I-83 north from I-695 (Baltimore Beltway). Take Exit 20-A (Shawan Road). At the second light (York Road) make a left turn to go north. Drive north about two miles (to about 14,200 York Road), then make a left turn onto Loveton Circle. There are two entrances to Loveton Circle with a traffic light at the second one. The McCormick World Headquarters is in a wooded lot about one-half mile from York Road (on the left if you got the first entrance to Loveton Circle). Parking is located to the left of the building and a reception area is at the front in the main entrance.

DAVID J. MCGARVEY

In 1987, David graduated from Oberlin College, in Lorain County, Ohio, where he was born and raised. He received a Master's degree in chemistry from Johns Hopkins University in 1989, and a Doctorate from Hopkins in 1995. David worked as a Legal Assistant for an administrative law firm in Washington, D.C., and performed administrative and organizational development functions for a national non-profit organization. David taught chemistry in a variety of contexts, including a recent course in environmental chemistry at Johns Hopkins.

David shares a home with his wife, Christina, and his son, Ben. He played third base in the chemistry department's softball team, and organized a departmental jazz band that performed at departmental functions.

THE RESURGENCE OF MALARIA

In the 1950s, scientists believed that malaria could be eradicated completely. By the 1990s, the outlook for the disease is worse than ever. DDT proved to be a disappointing and dangerous method of control for the mosquitoes. The parasites have developed resistance to traditional antimalarial drugs such as quinine and chloroquine.

An herb used in traditional Chinese medicine has yielded a 1,2,4 trioxane that cures malaria. Recent work at Johns Hopkins University in the labs of Professor Posner has resulted in the synthesis and evaluation of new analogues based on this molecule. These compounds are easier to synthesize than the natural product, and cure the disease more effectively. Researchers have also investigated the mechanism of action of these drugs.

SKILL STANDARDS SYMPOSIUM

The American Chemical Society (ACS) announces the symposium, "SKILL STANDARDS: IMPLICATIONS FOR INDUSTRY AND EDUCATION", to be presented March 25-26, 1996 at the Spring ACS National Meeting in New Orleans.

As we approach the 21st century, U.S. chemical process industries (CPI) play a dominant role in the U.S. and global economy. To ensure that our nations' CPI remain competitive, we must have available a highly skilled workforce with the updated technological expertise required for quality performance.

Sponsored by the ACS Division of Chemical Technicians and co-sponsored by the ACS Divisions of Chemical Education and Industrial and Engineering Chemistry, the symposium will examine in detail the findings and recommendations of "Voluntary Industry Standards for Chemical Process Industries Technical Workers", a three-year project funded by the U.S. Department of Education and conducted by the ACS Education Division in collaboration with prominent representatives from industry, education, and government.

These are samples of the questions and issues that will be addressed:

- * What job functions are performed by the technical worker?
- * What knowledge and skills are required by entry-level technicians and plant operators?
- * How can we convert identified skill standards to educational objectives?
- * What is the role of the local industry-school alliance?

The symposium brings together a cross section of professionals including chemical industry CEOs, human resource specialists, chemical technicians and plant operators, high school and college faculty and administrators, union and government officials. The discussions will provide a unique opportunity for dialogue.

FEATURED SPEAKERS: Richard Barth, CEO of Ciba-Geigy and Chair, Standards Project Steering Committee, will open the symposium. Patricia McNeil, Assistant Secretary for Vocational and Adult Education, U.S. Department of Education, will provide a national perspective. James Houghton, CEO of Corning Glass and Chair, National Skills Standards Board, will be the guest speaker at a ticketed luncheon on Monday, March 25th. Following the luncheon there will be a panel discussion on the impact of skills standards on industry and education. Other invited speakers will discuss a variety of project-related issues such as professionalism for technicians, project quality evaluations and industry-school alliances.

REGISTRATION: ACS members and non-members are invited to attend and are encouraged to pre-register. Obtain pre-registration forms by calling the ACS at 1-800-227-5558. On site registration will also be available. If you plan to attend the symposium and/or ticketed luncheon, please call 1-202-872-6308 so that we can make appropriate arrangements. To obtain additional symposium information, call James Latham, Session Chair, at 1-510-847-6191 or E-MAIL JAMES.LATHAM@CLOROX.COM

CHANGE OF ADDRESS

It is not necessary to notify *The Chesapeake Chemist* of address changes. We get our mailing labels from the ACS each month, so if you inform the ACS of your address change, we will automatically receive the correct label.

University of Maryland, Baltimore County

Department of Chemistry and Biochemistry Spring 1996 Seminar Schedule

March 13*	Dr. Peter Kollman University of California San Francisco, CA	"Molecular Dynamics Simulations of Molecules of Organic Chemical and Biochemical Interest"
March 26	Dr. Pat Mariano UM, College Park	"Synthetic Organic Photochemistry"
April 2	Dr. Paula J. Grabowski University of Pittsburgh	"Regulated Splicing of Messenger RNA Precursors in Neuronal Cells"
April 30	Dr. Kenneth Breslaur Rutgers University Piscataway, NJ	"DNA Structure/Stability and Drug-DNA Interactions: A Thermodynamic Perspective".
May 21	Dr. Carl D. Hoff University of Miami Coral Gables, FL	"Activation of Sulfur-Sulfur and Sulfur-Hydrogen Bonds at Group 6 Metals: A Thermodynamic and Kinetic Study"
June 4	Dr. Stephen K. Burley Laboratory of Molecular Biophysics Howard Hughes Medical Institute Rockefeller University, NY	"X-ray Crystallographic Studies of Eukaryotic Transcription Factors"

Seminars are at 3:30 PM in Room 403, Biological Sciences Building unless otherwise noted
For additional information, contact Dr. Theodore Budzichowski at (410)-455-2523
or Dr. Bradley Arnold at (410)-455-2503
* Place to be announced, please call.

AUDIO TRAINING KITS

The Maryland Section has a small selection of ACS audio training kits for loan. These are high quality kits on the following topics:

Statistics for Chemists
Infrared Spectroscopy
Scientific German
C-13 NMR Spectroscopy

Each can be borrowed for up to one month for a small handling charge to pay for postage and insurance.

Other topics may be added in the future, depending on demand.

Contact Dr. Shirish Shah at the College of Notre Dame, phone (410) 532-5712.

E-MAIL ADDRESSES

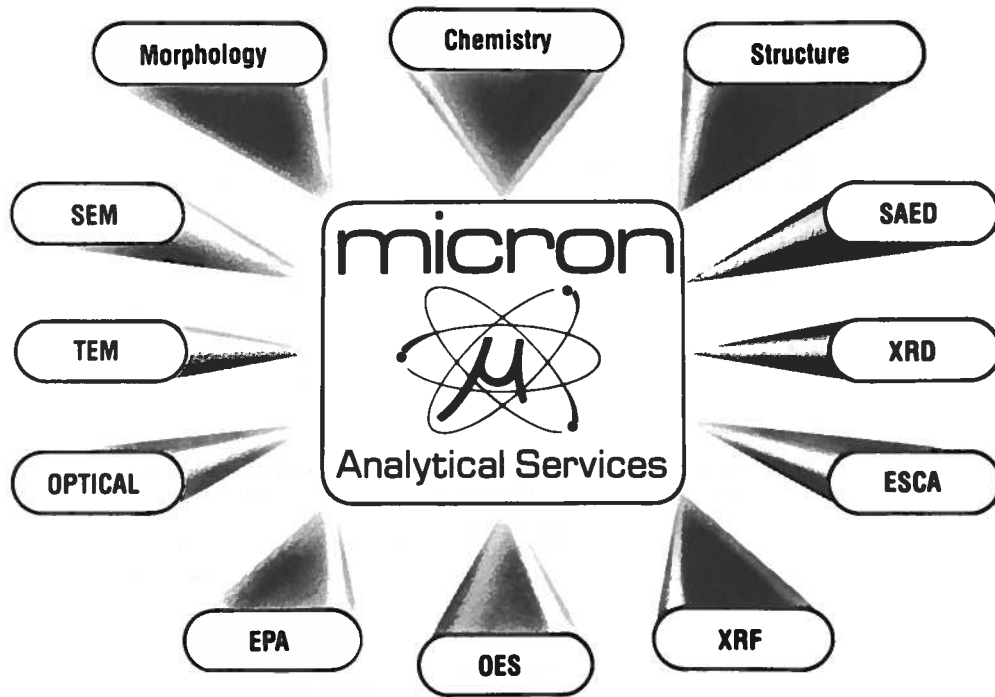
Members who wish to have their E-Mail addresses registered with the Section should contact Diane Schmidt at the address given below. We may find this system useful for notification about events and Society matters. For the initial contact, please use the following scheme: line 1 - E-Mail address; line 2 - name; and line 3 - any other note.

Contact: DMS@VM.CFSAN.FDA.GOV on Internet or DM1@BFD on Bitnet.

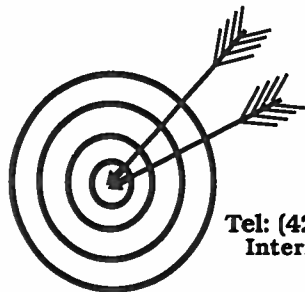
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