



THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XLIII

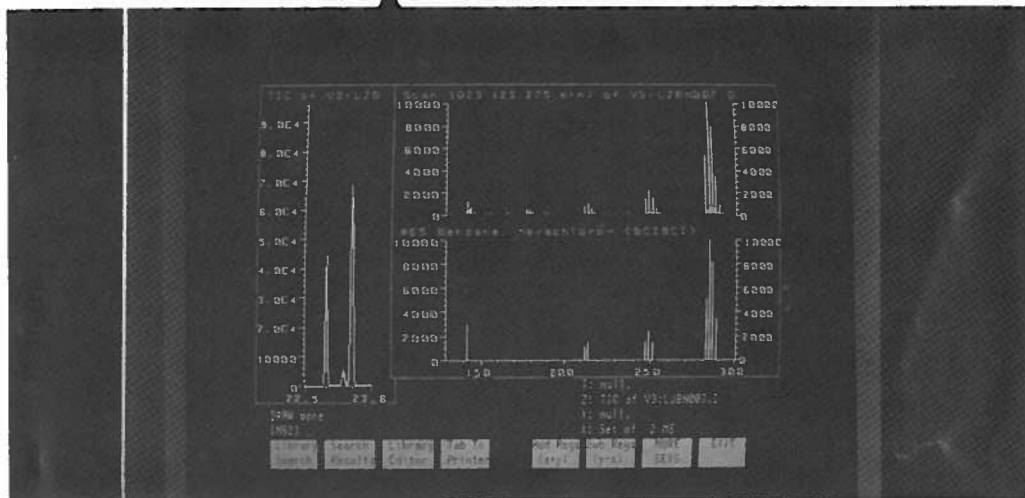
SEPTEMBER, 1987

NUMBER 7



PETER D. HIDALGO

No Compromises.



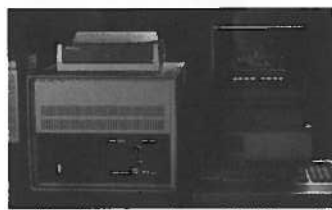
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Maryland Service Award...Donald Jones

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Women Chemist.....Lena Ohannesian
698-1604

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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.

REPORT OF THE COUNCILORS FROM THE DENVER MEETING

Denver is a fairly nice city in which to hold a large meeting. The meeting rooms and hotels were not too badly spread and the existence of a free shuttle system down the axis of the business district made the travel between meetings quick and efficient.

The meeting of the Council took place on Wednesday Morning (April 8) as usual. Although there were the usual interminable reports and comments, there was truly little business aside from housekeeping. There were three petitions under consideration but two of them were sent back to committee for further study. The one that passed was a formal statement that said that initial terms for new Councilors could be shorter than three years to assure even distribution. It does seem that was implied but now it is in black and white.

The Council selected Newman M. Bortnick and Clayton F. Callis as *nominees for President of the Society*. Both of these stalwarts are well trained in the inner workings of the system since they have served on the Board of Directors as well as in many other committee jobs. If history runs true to form, some outside candidate will appear by petition and will be elected because he/she has better name recognition even though no knowledge of how the governance of the Society works.

Dues. Without doubt the most acrimonious issue, and the one that took the longest, is the question of raising the dues. The Society has a by-law that automatically raises the dues according to a formula based on the rise in the cost of living. Each spring the Council has the option of accepting a lesser figure. There are several points of view on the value of this arrangement but there is no move afoot to do away with it. It does have some ramifications that bear reiteration.

Even if the full amount prescribed by the formula is selected the Society will only stay even with inflation as measured by the services price index. This means no new programs without pruning or removing the old ones. All of the programs of the Society get a good examination every year as a result and quite a few changes have occurred over the near-decade that this has been used. Further, whenever the Council acts to have a smaller increase, the lost revenues are never made up and the shortfalls compound.

At this meeting, one of the committees used the average salary rise for bachelors chemists instead of the cost of living index and came out with a number that was a dollar less than that based on the other data.

The choice was whether to stay even with the cost of service purchased or cut back to stay even with the rate at which salaries were rising. The latter course would seem logically to suggest a more limited set of programs supported by dues dollars.

The full escalator would have been four dollars. The actual value selected was three dollars. The vote for the final choice was 238 to 119 with the Maryland delegation split 2-2.

FACSS ANNUAL MEETING

The fourteenth annual meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) will be held October 4 through 9, 1987 at Cobo Hall in Detroit, Michigan.

The meeting will include four awards symposia and numerous topical symposia in addition to submitted papers.

NATIONAL CHEMISTRY DAY

November 6, 1987 has been designated National Chemistry Day. This presents us with a golden opportunity to focus public attention on the contributions of chemists and chemistry. Members have long recognized the need to promote public understanding and support for chemistry as the "central science." Now the time for action has come.

An advisory board of ACS members has been set up to lead the way and to guide the project. The ACS staff, under Randy Wedin, Special Assistant to the Executive Director, is providing materials, advice and support in planning and organizing this national event.

It is expected that local sections, some of which observed a Chemistry Day in 1986, will be the focal points of National Chemistry Day activities and that many individual ACS members will be participants.

MARYLAND SECTION PLANS

Tentative plans for the local celebration of National Chemistry Day are well developed but not finalized as we go to press.

An exhibition, supplied by the Center for the History of Chemistry, and augmented by additional displays, is planned to open at the Maryland Science Center on November 6 and to run for several weeks following.

Other events include the presentation of the Maryland Section service award at a reception to be held on November 6 at the Maryland Science Center, to which numerous dignitaries have been invited, and which will officially open the exhibit. The main speaker will be 1976 chemistry Nobel Laureate and 1976 Remsen Awardee William N. Lipscomb, Jr., who will discuss the impact of chemistry on everyday life.

HERMAN SKOLNIK AWARD

Dr. David R. Lide, Jr. has been named the 1988 recipient of the Herman Skolnik Award of the Division of Chemical Information, American Chemical Society. The Award was inaugurated in 1976 to recognize outstanding contributions to, and achievements in, the theory and practice of chemical information science. The award will be presented at the American Chemical Society National Meeting in Toronto, June 1988. A special symposium in Dr. Lide's honor will also be held at that time.

Dr. Lide has made significant contributions to the world of chemical information and documentation, notably serving as Director of the Standard Reference Data program of the National Bureau of Standards. Over the past 16 years, Dr. Lide's contributions to the chemical literature include establishment and editorship of the *Journal of Physical and Chemical Reference Data*, creation of the National Standard Reference Database Series of computer searchable numeric databases, and administration of the Standard Reference Data Program. His work in national and international chemical data activities such as IUPAC and CODATA have had a large impact on the world scientific community.

Dr. Lide holds a Ph.D. in Chemical Physics from Harvard University and is the author of over 100 papers on such topics as microwave and infrared spectroscopy, molecular structure, free radicals, high temperature chemistry, and scientific information.

Brigadier General Peter D. Hidalgo is the Commanding General of the U. S. Army Chemical Research, Development and Engineering Center (CRDEC) and the Deputy Commanding General for Chemical Materiel of the Armament Munitions and Chemical Command. He had served until June 1986 as the Deputy Chief of Staff for Chemical and Nuclear Matters at Headquarters, U. S. Army Materiel Command in Alexandria, Virginia.

A native of Louisiana, General Hidalgo began his Army career in June 1958, when he was graduated from the U. S. Military Academy at West Point and was commissioned into the Infantry. He received an M.B.A. from the University of Pittsburgh in 1964. He is also a graduate of the Infantry Officer Basic Course, The Chemical Officer Advanced Course, the U. S. Army Command and General Staff College and the U.S. Army War College.

He served in Vietnam during 1968 and 1969 as a Chemical Operations Officer and then spent three years in the Pentagon in the Chemical and Nuclear Operations Directorate, Office of the Assistant Chief of Staff for Force Development. He next served as Director of Industrial Operations and then as Deputy Commander of Pine Bluff Arsenal. His next assignment was as Commander of the Indiana Army Ammunition Plant, Charlestown, Indiana, from 1975 to 1977.

General Hidalgo spent two years as the U. S. Army Chemical Exchange Officer to the United Kingdom, stationed in Winterborne Gunner, Wilts, England. He was then assigned to Fort McClellan, Alabama from 1980 to 1983 where he served as Director of Combat Developments, the Assistant Commandant for Support and the Assistant Commandant of the U. S. Army Chemical School. In June 1983 he was assigned to Aberdeen Proving Ground as Commander of the U. S. Army Toxic and Hazardous Materials Agency where he served until his assignment to AMC Headquarters in March 1985.

General Hidalgo's military decorations include the Legion of Merit, the Bronze Star, the Meritorious Service Medal and the Army Commendation Medal, among others. He is married to the former Pat Wilder of Florida and they have one son, two daughters and a grandson.

NOMINATING COMMITTEE REPORT

The Maryland Section's Nominating Committee has presented the following slate for this year's election of officers: Chairman-elect, Joseph Topping; Secretary, Maria (Kris) Kirk; Treasurer, Joseph DeFrank; Councilors, Donald Jones and David Roswell; Alternate Councilors, Timothy McNeese and Elwin Penski; Members-at-large, Hope Bober, Donald Hoster, James King, Dale Whalen and Jeanette Hamilton.

The official ballot will appear in a future issue of *The Chesapeake Chemist*.

SCIENCE FAIR WINNERS

The 1987 Baltimore Science Fair was held March 28 and 29 at Towson State University. The Maryland Section gave two major awards, one in Division I and one in Division II. The winners were Maxwell Meng in Division I and Chazdar Chuknyiski in Division II. Each received a \$50 bond, a plaque and an invitation to attend, with a guest, our April Section meeting. In addition, we also awarded five certificates of achievement in each division.

Judges for the event, who have our sincerest thanks, were Harold Klapper, Ted Stockus, Ken Gill, Joe DeFrank and Don Kyle.

DATE:

Tuesday, September 22, 1987

PLACE:

Michelson Hall
U. S. Naval Academy
Annapolis, Maryland

SPEAKER AND TOPIC:

8:00 pm
Peter D. Hidalgo
Commanding General
U. S. Army Chemical Research,
Development and Engineering Center

"Chemical Treaty Verification"

COCKTAILS AND DINNER:

Officers' Club
Social Hour - Cash Bar: 5:45 pm
Dinner: 6:45 pm

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

DIRECTIONS FOR NAVAL ACADEMY: Approaching Annapolis on Rte 2 from the north, cross Rte 50, and continue on Rte 450. After crossing the Severn River, turn left at the 2nd light onto King George St. At the end of King George St enter Gate 1 into the Academy.

From Rte 50, exit at Rowe Blvd. Follow Naval Academy Visitors signs to Gate 1.

CHEMICAL TREATY VERIFICATION

The United States objective is to achieve verifiable elimination of worldwide chemical warfare capability through destruction of stockpiles and production facilities and to deter clandestine development of new chemical-biological warfare capabilities. However, Soviet activities in the field of chemical warfare indicate that they have large stockpiles of chemical agents and are willing to conduct warfare in a chemical battlefield environment. The use of chemical agents and toxins in ongoing conflicts and the continuing proliferation of chemical warfare capability have led the U.S. Government to the conviction that a verifiable treaty is critical to national and international security. Meanwhile, in the absence of such a disarmament treaty, we must maintain a retaliatory capability and deterrent posture.

We have little information regarding the current Soviet capabilities; we do not know their offensive posture nor location of storage and production facilities. At this time, we would be dependent on the Soviets to tell us. Further, we do not now have the technological means to monitor and verify compliance to any chemical weapons convention. Not an enviable position.

EXECUTIVE COMMITTEE MINUTES

The Executive Committee was called to order by Alvin Bober, the Chairman, at 7:35 p.m. on February 25, 1987 in the Chemistry Reading Room of the College of Notre Dame.

The other members present were: Steve Gregory, Bill White, Hope Bober, Alvin Bober, Ron Erickson, Susan Lever, John Lever, Joe Topping, Paul Carter, Don Hoster, Sr. Denise Eby, Joe DeFrank, Ted Stockus, Larry Funke, and Kristine Kirk.

Two significant corrections to the minutes of the last Executive Committee were: the date of the meeting was January 7, 1987, not February 4; the preceding meeting was held November 5, 1986, not January 7.

Treasurer's Report: Joe DeFrank, the Treasurer, reported that expenses (\$3,921.18) had exceeded income (\$941.33) by about \$3,000 for January-February 1987. The disparity will be resolved when the Section's annual allocation from National is disbursed, pending submission of the Maryland Section Annual Report.

Expenses included: printing, typing and mailing costs for the *Chesapeake Chemist* (\$1,805.38); \$140.00 for the Maryland Chemist plaque; \$562.28 for airfare and lodging for the Remsen Award winner; rental of the lecture hall and dining room for the December and January meetings (\$300.00); \$789.02 for the food and beverage at the January meeting, and \$215.75 in administrative expenses, such as computer equipment, postage, and the Past Chairman's plaque.

Outstanding bills included \$800.00 for room rental and meals for February and March. Income included \$18.33 in interest on the Yorkridge-Calvert NOW account, which stands at \$1,167.17; and meal receipts of \$508.00 for January and \$415.00 for February. The Yorkridge-Calvert CD totaled \$11,125.08 as of January 1, 1987, and there was \$682.33 in the Union Trust checking account.

DeFrank noted that the deadline for requesting National to collect local dues is April 1. The Committee should decide on a possible increase in local dues tonight so National can be notified.

Bober reported that Harmon had about \$1,900 in the *Chesapeake Chemist* account, and has about \$200 in outstanding bills. These funds will be transferred to the Section's account.

Awards: Don Hoster reported that the plans for Student Awards Night were in progress. Information on the 20 awardees had been sent to Ray Petersen for publication in the April *Chemist*. Bober congratulated Hoster on a fine job.

Chemical Education: No report.

Program: The program for 1988 is almost complete and will feature many local speakers, reported Bill White, the Program Chairman. The September meeting will be held at the Naval Academy, while Grace will host the October meeting. The March meeting will be a joint meeting with the American Society of Microbiologists (ASM). In April, the College of Notre Dame will be the site of the Student Awards meeting.

White had inquired about holding a meeting at the Maritime Institute near BWI, which would include a tour of the facilities and simulators used in training ship pilots and navigators. Due to the higher cost of the meals, the Section would have to charge about \$25.00 per person. It was suggested that a market survey to determine interest be done.

Bober encouraged White to plan a January meeting in Baltimore; an extra issue of the *Chemist* would be needed at a cost of about \$1,000. Also, a special meeting to discuss formation of a Woman Chemist Committee was added to the Student Awards program at 4 p.m. Linda Sweeting of Towson State University will act as moderator.

Bober further requested that Hope Bober was coordinating plans for the picnic at Belmont on July 19, co-sponsored by the Chemical Society of Washington. An ad will be run in the May *Chemist*, listing activities (pool, tennis, volleyball, softball.)

House: John Corliss reported by phone that 19 persons attended the first lecture in January, 39 were at the second talk, and 41 attended dinner. In February, 24 attendees were at the first talk with 28 at the second, and 37 at dinner. Bober reported that Beckmann was providing funds for the March social hour.

By-Laws: Elwin Penski was unable to attend, but reported that there would be some business to be considered at the next Committee meeting.

Member Assistance: No report. Bober noted that the State has an entry-level position open.

Public Relations: Irwin Potofsky was unable to assume the post resigned by Bob Kreps. Suggestions were sought for a replacement.

Membership: Ted Stockus reported 4 new members for the December-January period. He will send each a letter of welcome, and noted he needed more stationery. The Secretary noted that she has the Section's stationery supplies, so any requests should be directed to her.

Finance: Harold Klapper reported that the Section had a deficit of about \$2,000 in 1986. Although there is a reserve of approximately \$15,000, continuing losses would not be prudent. Klapper suggest three approaches: 1) local dues could be increased, 2) the number of meetings and issues of the *Chemist* could be decreased, and 3) expenses for rentals and meals could be lowered.

The options were considered by the Committee. Income would be increased about \$800 by a \$1 increase in dues - 590 Section members pay local dues, currently \$4.00. The Executive Committee unanimously approved an increase to \$5.00 for 1988, the first such change in several years.

White noted that a grant, possibly from the Maryland Humanities Council, might be a source of support for certain projects, such as the National Chemistry Day program which would supplement the Section's funds.

Stockus observed that the Section subsidizes the cost of the dinners at the monthly meetings, and that the disparity between income and expenses for the dinners has continued to increase. Other sites might be less expensive; John Corliss was asked to investigate alternate locations, which would still be able to provide auditorium and dining facilities.

High School Activities: Mike Zapf reported to Bober by phone that the International Chemical Olympiad exam was scheduled for April and that information was being mailed to high schools. Five judges will represent the Section at the Science Fair in March; the winners will exhibit their posters at the April meeting. The Section has been invited by the University of Maryland College Park to participate in a career program for high school students on April 25. Dr. Tung L. Wu of Coppin State College has received \$100 as a Project SEED grant to support student research. Don Kyle will assist Zapf with high school projects.

Sister Denise Eby distributed a brochure describing the Inservice Precollege Teacher Development Program for which she sought support at the last Executive Committee meeting. The Committee unanimously approved a \$600 allocation for 20 textbooks for the participating elementary school teachers. Larry Funke noted that similar support would be welcome for an update program planned for teachers of physical science.

The Science Teaching Award is not being given this year due to a lack of qualified nominees. Sr. Denise will use her contacts to promote the award and identify possible candidates.

Congressional Science Councilors: No report.

Chesapeake Chemist: No report. Bober noted that Alan Harmon reported a balance of \$1,900 in the *Chemist* account, which is to be transferred to the Section account.

MARM: Joe Topping reported that he was awaiting the last MARM committee reports. He planned to write the final report in early March and submit it to the MARM chairmen for approval.

Archives: In connection with the Diamond Jubilee of the Section, John and Susan Lever distributed a proposal for an Anniversary Program on September 29, 1989. Assisting them will be Tim Parr, Ernie Silversmith, and Don Jones. Included in the festivities would be lectures, poster sessions, exhibits, and social events. It was suggested that a chairman be appointed for each committee.

Old Business: Paul Carter and Ron Erickson reported on their plans to observe National Chemistry Day. The feasibility of setting up a chemistry exhibit at the Maryland Science Center is being investigated. Suggestions were asked for a nationally known chemist to act as the opening day speaker. Governor Schaefer will sign a proclamation. ACS films may be shown in the auditorium, and a career booth has been suggested. Bober will meet with Carter and Erickson to discuss sources of support (chemical companies, foundations, etc.)

New Business: The question of alternative meeting dates was raised. The present schedule of the third Wednesday of the month seems successful, so no change was made for 1988.

The next meeting of the Executive Committee will be on April 29, 1987 at 7:30 p.m.

The meeting was adjourned at 9:10 p.m.

Respectfully submitted,
Kristine Kirk,
 Secretary

FUTURE MEETINGS 1987-1988

| DATE AND LOCATION | SPEAKER AND AFFILIATION | SUBJECT |
|--|--|---|
| October 21, 1987 W. R. Grace Research Center | Dr. Kenner C. Rice National Institutes of Health | Opiates |
| | Early speaker not yet identified | |
| November 18, 1987 Aberdeen Proving Grounds | Dr. Gary W. Carriveau National Gallery of Art | Chemistry as an Aid in Understanding Art |
| December Johns Hopkins | Maryland Chemist Award | |
| February 3, 1988 College of Notre Dame | Dr. Rita R. Colwell University of Maryland | Developments in Marine Biotechnology |
| | Early speaker not yet identified | |
| March Linthicum | Not yet identified | Maritime Institute of Technology |
| April College of Notre Dame | Dr. Alan McClellan E. I. DuPont | Chemical Careers in Industry |
| | Student Awards | |

TWENTY-SECOND MARM

The 22nd Middle Atlantic Regional Meeting will be held in Millersville, Pennsylvania May 24-26, 1988. The meeting will include a large number of symposia as well as general sessions.

Abstracts of papers, on ACS forms, should be submitted to the Program Chairs by February 1, 1988. Program Co-chairs are Dr. Lindy Harrison and Dr. Keith Peterman of the Physical Sciences Department, York College of Pennsylvania, York, PA 17403-3426.

ARCHIVES NEEDS CHESAPEAKE CHEMISTS

As a part of the Maryland Section's archives, we would like to have a complete set of *The Chesapeake Chemist*. Four issues, relatively recent ones, are missing: April, September and October of 1978 and March of 1981.

If you have any of these and would be willing to contribute them, please contact Ernie Silversmith.

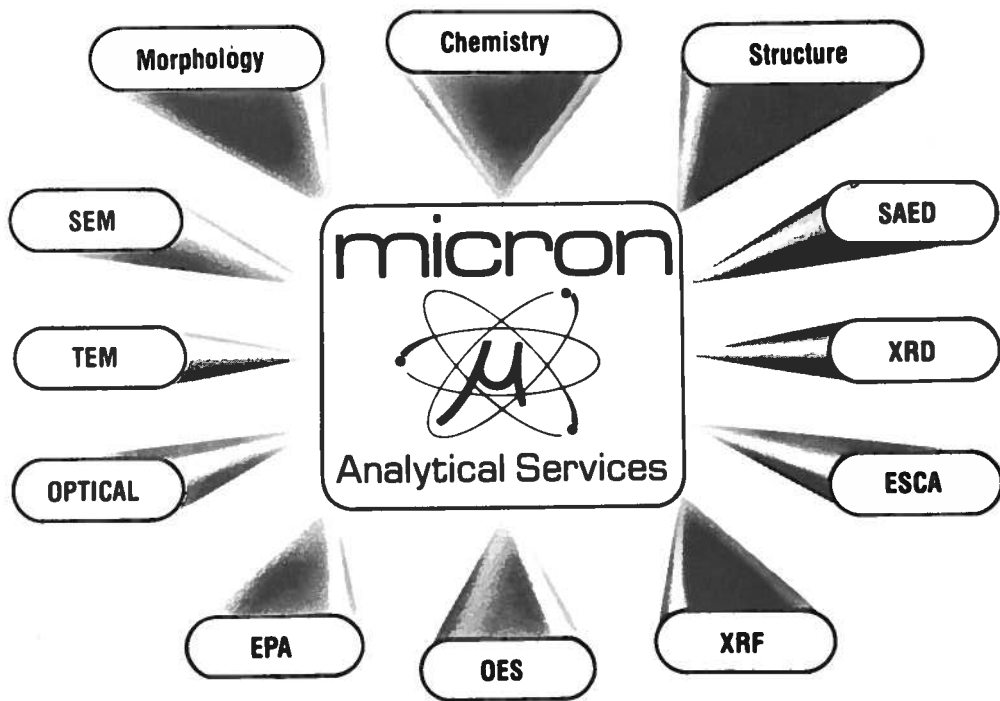
FIFTY-YEAR MEMBERS

Four members of the Maryland Section have been recognized for completing fifty years of membership in the American Chemical Society. They are Mr. Ivor W. Mills of Earleville, Mr. Melvin Fuld of Baltimore, Mr. Walter K. O'Loughlin of Towson and Dr. John W. Richards of Emmitsburg.

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