



THE

CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXVII

APRIL, 1981

NUMBER 4

AMERICAN CHEMICAL SOCIETY



For
Outstanding
Achievement
in
Chemistry





THE CHESAPEAKE CHEMIST

MARYLAND SECTION 1980 FINANCIAL REPORT

Revenues:

Annual ACS Allotment	\$ 5,163.00
Local Section Dues	2,959.00
Publications	3,778.65
Meals (Total Revenue)	3,523.00
Interest, Dividends	992.20
Donations, Contributions	30.00
Return from 13th MARM	214.33
ACS Rebate for Councilor Travel Expenses	375.85
ACS Program Development Grant	250.00
Miscellaneous	14.48
Total Revenues	\$17,300.51

Expenses:

Administrative Expenses	\$ 380.74
Local Meetings (Speakers and Related Expenses)	1,381.28
Meals (Total Expense)	4,609.36
Publications	4,103.84
Meeting Announcements	442.55
Awards	351.60
Travel Subsidy to Councilors	1,699.75
Conference Expenses for Local Section Officers	90.00
Subsidy to Publication Account	2,000.00
Return to ACS Program Development Fund	250.00
Donation to Intercollegiate Student Chemists Conference	300.00
Total Expenses	\$15,609.12

Capital Changes:

Capital Balance January 1, 1980	\$10,409.11
Net Revenues Added in 1980	\$ 1,691.39
Capital Balance January 1, 1981	\$12,100.50

CHESAPEAKE CHEMIST 1980 FINANCIAL REPORT

Revenues:

Advertising	\$ 1,778.65
From Local Section Operating Fund	\$ 2,000.00
Total Revenues	\$ 3,778.65

Expenses:

Printing	\$ 2,659.00
Addressing	452.03
Postage	470.00
Typing	522.81
Total Expenses	\$ 4,103.84

Cash Balance January 1, 1980	\$ 722.48
Cash Balance January 1, 1981	\$ 397.29

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267-3302

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747-4195

COMMITTEE CHAIRPEOPLE - 1981

Awards and National Nominations.....
Joyce J. Kaufman
The Johns Hopkins University
338-7417

Chemical Education...Sr. Mary Vincent
The College of Notre Dame of MD
435-0100

Program.....Elwin C. Penski

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385-0159

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Student Awards.....Donald Hoster
Community College of Baltimore
396-7991

Remsen Award.....Dean Robinson
The Johns Hopkins University
338-7430

Finance.....Alvin Bober
655-5254

MEMBERS-AT-LARGE

Donald Hoster Richard Rebbert
Maria Kirk Sister Vincent
Cheryl Manger

ALTERNATE COUNCILORS

Linda Sweeting Alvin Bober
Robert L. Caret Clara Adams

The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to Raymond C. Petersen, 9329 Joey Drive, Ellicott City, Md. 21043. Send advertising copy and inquiries to Mary Salb, McCormick and Co., Inc., 204 Wight Avenue, Hunt Valley, Md. 21031. 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.

EXECUTIVE COMMITTEE MINUTES

The Executive Committee of the Maryland Section, American Chemical Society, was called to order by the Chairman, Mr. Penski, at 7:35 P.M. on Wednesday, January 28, 1981, at the Knott Science Center, College of Notre Dame, Baltimore, Maryland. The following members were present: A. Bober, R.L. Caret, H. Cohen, M. Eiss, Dr. Hoster, F. Hummel, H. Klapper, C. Manger, M. Miller, T. Parr, E. Penski, R. Petersen, N. Phillips, C. Rowell, M. Salb, E. Silver-smith, and Sister Mary Vincent.

The Chairman reported that he had received a list of five fifty year members from the National Office, who suggested that these persons be honored at a meeting.

Maria Kirk will serve as Membership Chairman.

The Minutes of the December meeting were read and approved as corrected.

The Treasurer distributed copies of his annual report, which included the budget for the coming year. Since a deficit is anticipated, the subject of increasing revenues was discussed. Numerous ideas were considered but no action was taken.

Chemical Education and Safety. The workshop on Problem Solving through Creative Thinking will be held on Saturday, Jan. 31, 1981. Twenty-four persons have registered, and Mr. Penski will be the moderator. It was expected that losses would be less than \$100.00.

Program. Mrs. Eiss has obtained speakers for several meetings. Some of the speakers include Herbert C. Brown, Janet Grasselli, and Amoretta M. Hoeber. Mrs. Eiss has selected the following tentative dates for meetings: Sept. 16, Oct. 21, Nov. 18 and Dec. 16, 1981; and Jan. 20, Feb. 17, Mar. 17, and April 28, 1982.

House. Mr. Phillips reported that 59 persons attended the January meeting at UMBC; \$414.00 was received.

Public Relations. Dr. Hoster reported that he sent a letter to all Maryland High Schools and Colleges announcing Dr. Adler's lecture on Geochemistry. The American Chemical Society would like High School competition experiments for a space experiment. The deadline has been extended. Guidelines were included in the letter; Colleges and Universities may also send entries if they have ideas.

Finance. Mr. Bober has no further report. He requested the Treasurer to check on the size of anticipated future subsidies from the ACS.

High School Activities. Mr. Bober is contacting Science Teachers in Maryland. He will make a presentation at City College on February 6, 1981, on the Future of Chemistry. This will include a discussion of preparation, types of work available, and salaries to be expected.

Student Awards. Dr. Hoster reported that 26 letters were sent out in November. He needs a few more pictures of students to send to the Editor of *The Chesapeake Chemist*.

Chesapeake Chemist. Dr. Petersen needs authority to find a printer quickly, if needed; the present printer may be going out of business. A new one may be more expensive. He needs pictures and a story about the Student Award meeting by February 20, 1981. He also requested a complete list of Remsen Award winners for the May issue.

Nominations. Dr. Miller has been appointed Chairman of the Nominating Committee.

MARM. Dr. Caret and members of the Executive Committee discussed the date and location of the 1986 MARM which will be held in Baltimore, but no final decisions were made.

Councilors. Dr. Rowell announced that the National Society is cutting some programs to save money on administration. The question was asked if the high school programs were a necessary expense.

Old Business. No discussion.

New Business. Mr. Penski requested approval of a change in Bylaw VII. Dr. Caret moved, seconded by Mr. Cohen, that it be accepted. The motion was carried unanimously. It must now be published in *The Chesapeake Chemist*, possibly in March, and voted on by the members.

Dr. Caret moved, seconded by Mr. Bober, that dinner subsidies be provided only for students and retired persons. The motion was carried. A motion to raise local dues to five dollars was defeated.

Since there was no further business, the meeting was adjourned at 9:35 P.M.

Respectfully submitted,
Frances C. Hummel, Secretary

TOWSON STATE UNIVERSITY CHEMISTRY SEMINARS

April 9 Thursday	Dr. Richard Heck, Chemistry Department University of Delaware	Organopalladium Com- pounds: Versatile Reagents for Organic Synthesis
May 5 Tuesday	Dr. Melvin Linzer National Bureau of Standards	Ultrasonic Tissue Characterization

Place: Towson State University - Smith Hall - Room 541

Time: 12:45 pm Coffee & Doughnuts: 12:30 pm

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ROBERT J. HUGGETT

Robert J. Huggett is an environmental chemist and chairman of the Department of Ecology-Pollution at the Virginia Institute of Marine Science, School of Marine Science, College of William and Mary. He received his M.S. from The Scripps Institution of Oceanography and his Ph.D. from The College of William and Mary. His research interests involve the transport, fate and effects of pollutants in estuarine systems. Since 1975 he has been extensively involved with the pollution of the James River by the pesticide, Kepone.

THE CONTINUING SAGA OF KEPONE IN THE JAMES RIVER

The James River in Virginia is perhaps the most studied estuary in North America, and in 1975 the pesticide, Kepone, was discovered to be in its biota and sediments. Since that time a great deal more has been learned about its circulation, sedimentation regimes and biota using Kepone as a "tag".

This presentation will trace the scientific findings to date involving the chemistry, biological effects, and projected fate of Kepone in the James River.

RALPH W. F. HARDY

Ralph W. F. Hardy, a biochemist, is Director - Life Sciences in the Central Research & Development Department of the Du Pont Company. A native of Lindsay, Ontario, Canada, where he was born in 1934, Dr. Hardy received his bachelor's degree in chemistry in 1956 from the Ontario Agricultural College of the University of Toronto and received the Governor General's Silver Medal. From the University of Wisconsin, where he was a Wisconsin Alumni Research Foundation fellow and a Du Pont fellow, he received the M.S. degree in 1958 and the Ph.D. degree in 1960. Dr. Hardy has been a member of several national and international committees on world food production including the National Academy of Sciences World Food and Nutrition Study and has been a speaker at over 100 national and international symposia and conferences on this topic.

WORLD FOOD & CHEMISTRY

An overview of world food production for the remainder of this century will be presented in terms of assumptions, energy considerations, and strategies. The unprecedented opportunities in current and future molecular (chemical) studies of the yield-limiting processes of major food/feed crops will provide the basis for major technical inputs such as genetic engineering and plant growth regulants to enable a doubling of world crop production so as to meet the food expectations of an increasingly affluent and numerous world human population.

FACSS ANNUAL MEETING

The eighth annual meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) will be held September 20-25 at the Philadelphia Sheraton Hotel.

The sponsoring organizations for the meeting are: Analysis Instrument Division, Instrument Society of America; Association of Analytical Chemists, Inc.; Division of Analytical Chemistry, ACS; Society for Applied Spectroscopy.

The meeting features several workshops and short courses in addition to more than fifty special symposia. Authors who wish to present papers must submit a fifty word brief by April 15 to the Program Chairman, Mary A. Kaiser, E228/232, E. I. duPont de Nemours & Co., Wilmington, DE 19898; (302) 772-3250.

APRIL MEETING

DATE:

Wednesday, April 15, 1981

PLACE:

Knott Science Center
The College of Notre Dame
of Maryland
North Charles Street
Baltimore

SPEAKERS AND TOPICS:

6:00 pm
Robert J. Huggett
Va. Inst. of Marine Science
"The Continuing Saga of Kepone
in the James River"

8:30 pm
Ralph W. F. Hardy
E. I. duPont
"World Food and Chemistry"



ROBERT J. HUGGETT

COCKTAILS AND DINNER:

Doyle Building Dining Room

Cocktails 7:00 - 7:30 pm

Hot buffet dinner (7:30) \$8.50 per person, except students and retired chemists may attend the dinner for \$6.50

Please make reservations by mailing checks to

Elwin C. Penski
2515 Jerusalem Road
Joppa, MD 21085

by April 6. Late reservations may be made by calling

879-8589 (Baltimore local)
or 671-2243 (8:00 to 4:30
weekdays)
877-2923 (evenings after 7:00)

before April 8.

The exact number of dinner reservations must be provided to the caterer by April 8. Mailing checks early will reduce the length of lines at the door, make for a smoother operation, and assure your being served.

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



RALPH W. F. HARDY

MARYLAND SECTION STUDENT AWARDS

The ACS Maryland Section student awards for 1981-82 will be presented at the April 15 meeting of the Section.

The students receiving this year's awards will receive, in addition to recognition at the dinner meeting, a scroll and a one year subscription to the *Journal of Chemical Education*. Outstanding students were selected by criteria established at their respective institutions.

The awardees are:

Scott Stephenson, Anne Arundel Community College
Andrew G. Walther, IV, Catonsville Community College
Andre C. Dupree, Coppin State College
Wayne Brooke-Devlin, Community College of Baltimore
Phyllis Melvin, Essex Community College
Ellen Mahajan, Frederick Community College
My-Huong Nguyen, Goucher College
Trudi Holt, Harford Community College
Robert S. Cramer, Hood College
John Collins, Howard Community College
Denise Lally, Loyola College
Karen Dobbs, College of Notre Dame
Peter C. Smythe, Morgan State University
Joseph P. Dougherty, Mount Saint Mary's College
Dwayne C. Clark, United States Naval Academy
Steven L. Friedman, University of Maryland Baltimore County
Albert A. Burk, Jr., Western Maryland College
Gerald J. Hoffman, Towson State University
David E. Mills, Washington College



Towson State University

SUMMER 1981 CHEMISTRY OFFERINGS

CHEM 1905.361 CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION.
Meets Mondays and Wednesdays, 7-10 p.m. June 15—July 31. Instructor: Dr. Max Eisenberg, Department of Health and Mental Hygiene for the State of Md.

We also offer the following summer courses:

First Summer Session Day (June 11—July 15). Chemistry for Non-Scientists, General Chemistry I, Chemistry for Allied Health Sciences I, Quantitative Analytical Chemistry, Essentials of Organic Chemistry, Organic Chemistry I and Principles of Biochemistry.

Second Summer Session Day (July 16—August 19). Chemistry for Non-Scientists, General Chemistry I & II, Chemistry for Allied Health Sciences II, Organic Chemistry II.

Evening School (June 15—July 31). Chemistry for Non-Scientists, General Chemistry I & II.

For course information, call 321-3058. For registration information, call 321-2022.

MOVEMENT OCCURRING ON EMPLOYED INVENTOR COMPENSATION RECOMMENDATIONS

Significant steps have been taken in recent months to implement four Board-approved recommendations on compensation for employed inventors. The recommendations, developed by an ACS task force, were forwarded on July 17, 1980, to various ACS units for possible action, culminating a 10-year effort to promote greater Society interest in this issue.

Recommendation one states, "...ACS should actively encourage employers to establish recognition programs for employed inventors. This was referred to the Division of Professional Relations and others. A division spokesman says that this has been an issue of longstanding concern to the division, but that "the recommendation doesn't go far enough. We have long favored legislation on this...." The Board, however, does not favor ACS support of legislation at this time.

Recommendation two, referred to the Committee on Professional Relations, calls for the Society to "bring more forcefully to the attention of employers the importance of inventor recognition...." The Committee agreed to consider revision of the *Professional Employment Guidelines* to address this issue.

Recommendation three offered specific recommendations to "educate chemists... on the subject of patents...." The Committee on Education is considering at its Atlanta meeting the possibility of increasing the number of ACS publications and other materials on the subject. A symposium on "Compensation for Employed Inventors" is being sponsored in Atlanta on March 30 by the ACS Committee on Patent Matters & Related Legislation, and the Committee on Professional Relations. Finally, the Committee on Local Section Activities has directed that speakers on patent matters be added to the ACS Speaker Service listing.

The last recommendation calls for employers to allow prospective employees ample time to review employment agreements; to refrain from forcing former employees to sign over rights to inventions conceived after termination of employment; and to release to the inventor the rights to inventions in which the employer has no interest.

So far, nothing has been done to explicitly implement this recommendation, but Dr. Willard Marcy, chairman of the task force that drafted the recommendations, points out that it could serve as a working draft for language to modify the *Professional Employment Guidelines*, as the Professional Relations Committee said it would consider.

Although these recommendations have met with a great deal of opposition from some groups and individuals in the Society, Marcy notes that according to a recent poll, close to 1 in 3 ACS members is an employed inventor. "Also," Marcy adds, "you've got to keep in mind that ACS represents the individual chemical professional. It does not represent the chemical industry. Although ACS's interests and the industry's often coincide, ACS positions can and do differ from the industrial view in some cases. Employed inventor compensation is such a case."

Marcy feels strongly that concerned rank and file ACS members should push for greater ACS involvement through their sections, divisions, and committees. "ACS should continue to be involved in this issue," he says. "No one else is going to carry the ball on this for the individual chemist, so it's up to us. After all, that's what ACS is here for."

Peter Farnham
Member - Related Programs

ACS AND PROFESSIONAL RELATIONS

One goal of the ACS is to enhance the professional well-being of chemists and chemical engineers. Many activities and publications related to this goal are carried out and developed by the Council Committee on Professional Relations (CPR), and coordinated through the Office of Professional Relations. These include:

ACS Professional Employment Guidelines (PEG) - PEG, now in its fifth edition, is a published collection of recommended good employment practices for chemists and their employers, which have been approved by the Council and endorsed by the Board of Directors.

Multiple Termination Investigations - The practice of investigating multiple terminations of chemists and chemical engineers began in 1971. The investigations consist of gathering termination condition information from both the employer and the terminees, and comparing these conditions to the recommended standards outlined in PEG. The results are tabulated and reported twice yearly in *Chemical & Engineering News*.

Member Assistance - Assistance is provided to individual ACS members who seek help with professional problems they have been unable to resolve, most often with a present or former employer. Frequently a consultant is called upon to investigate by personal interview with the member, the employer, and other persons familiar with the specific situation. These consultants are chemists with wide experience and perceptive interest in professional problems. Complaints investigated by CPR cover a broad spectrum from alleged discrimination to unsafe working conditions. While the ACS cannot bargain with the employer on behalf of individual members, complaints can be resolved or recommendations made for an appropriate course of action. (In connection with this the ACS makes available low-interest loans to members who may need representation by legal counsel.)

Professional orientation seminar - "Chemistry: A Job or a Career?" is a seminar designed for use by ACS student affiliates and undergraduate departments of chemistry and chemical engineering. Consisting of a set of slides, accompanying tape cassette or manuscript, and companion booklets, the program discusses job-hunting and interviewing techniques, professional ethics, and the importance of keeping up with new developments in the field of chemistry.

Professional handbook series - Booklets available from the Office of Professional Relations are "The Employment Interview", "Employment Agreements", and "Trade Secrets - Ethics and Law". The latter two are currently being revised and are available in manuscript form.

The Office of Professional Relations at ACS headquarters in Washington, D.C. has two full-time staff members, Mr. Earl Klinefelter, Manager, and Ms. Connie Talmadge, Assistant to the Manager, who work on professional relations matters and are available to members with questions or problems.

Members of CPR, as well as Earl Klinefelter and Robert Neuman, Head of the Department of Professional Relations and Manpower Studies, are often available to travel to Local Section Officers Conferences, regional meetings, and local section meetings to discuss professional relations matters. Alternatively, Mr. Klinefelter can make suggestions for other speakers. If your section is interested in having someone address a meeting, you may write or call Mr. Klinefelter at (202) 872-4431.

When did YOU
last attend a Maryland Section meeting?

COUNCIL COMMITTEE ON PROFESSIONAL RELATIONS REVISES TWO PUBLICATIONS

Revised editions of two popular handbooks prepared by the Council Committee on Professional Relations (CPR) are now available. The handbooks are entitled "Employment Agreements" and "Trade Secrets...Ethics and Law." Both are designed to assist scientists and engineers in understanding these important areas of professional life.

"Employment Agreements" outlines the key provisions contained in most professional employment agreements and suggests model language concerning these provisions. In addition, the booklet contains samples of several companies' contracts, and a recommended reading list.

"Trade Secrets...Ethics and Law" contains descriptions of several hallmark court cases, and proffers recommendations for employers and employees on the proper and ethical handling of trade secrets. A supplemental reading list is included in this booklet, as well.

CPR will be pleased to have these revised handbooks sent to all who are interested. Please address your requests to: American Chemical Society, Office of Professional Relations, 1155 16th Street, N.W., Washington, D.C. 20036. Individual copies will be sent without charge. Costs for additional copies are as follows: 2 to 10 copies - \$2.00 each; 11 to 100 copies - \$1.00 each; over 100 copies \$.50 each.

THE JOHNS HOPKINS UNIVERSITY

CHEMISTRY COLLOQUIA

Colloquia are held at 4:15 p.m. in Remsen Hall 221 on the Homewood Campus of the Johns Hopkins University. Refreshments are served at 4:00 p.m.

<u>Day and Date</u>	<u>Speaker and Affiliation</u>	<u>Title or Topic</u>
Tuesday April 7	Gregory Geoffroy Penn. State University	Synthesis and Reactivity of Hetero-nuclear Bimetallic Organometallic Compounds
Tuesday April 14	M. C. Lin Naval Research Laboratory	Laser Applications to Hetero- geneous Catalysis
Friday April 24	Eric Heller Univ. of California, L.A.	How Important are Quantum Ef- fects in Molecular Vibrations?
Tuesday April 28	Carl Lineberger Joint Institute for Laboratory Astrophysics	Laser Photodetachment Spec- troscopy of Negative Ions and Small Free Radicals

MARYLAND SECTION FUTURE PROGRAM

<u>Date</u>	<u>Location</u>	<u>Speakers</u>	<u>Topics</u>
May	John Hopkins Univ.	Remsen Award	

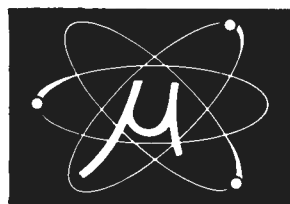
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