



THE **CHESAPEAKE
CHEMIST**

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

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THE MARYLAND CHEMIST OF THE YEAR



Three of the Maryland counselors attended the Council meeting in Miami (Eiss, Jones, Rowell). The ACS Executive Director, John Crum, reported on the state of the Society. Total ACS membership at the end of May was 136,000 - 3,000 more than last year. The Society has waged an intensive campaign to get and hold members.

Preliminary analysis of the 1989 Salary Survey shows that unemployment rates for chemists are lower than last year. BS chemist salaries increased about 7% and PhD salaries increased about 5%.

Over 2,900 ACS members are participating in the Professional Liability Plan offered by the Trustees of the Group Insurance Plans for ACS members. In order to be viable, the program needs 1,400 more participants.

ACS Board Chairman, Ernst Eliel, reported that gifts and pledges to the Campaign for Chemistry totaled \$17.9 million. Corporate contributions are proceeding well; the individual campaign is slower. The entire membership will be asked to contribute to the campaign in 1990.

The Smithsonian Exhibit "Science in American Life" is scheduled to open in September, 1993. The Smithsonian exhibit is a key element in the Campaign for Chemistry; The Board of Directors has allocated \$4 million to the construction of the exhibit. The exhibit will have two parts, one centering around science, especially chemistry, as a dynamic counterpoint of American culture which has changed our life. The other component is a Learning Center which will allow visitors to explore scientific, especially chemical, concepts in an interactive or didactic mode. Other funds will be required after 1993 to staff and maintain this high-tech exhibit.

ACS President Elect, Paul Gassman, called for ACS members to help educate the public and the media about chemistry. The public perception of chemistry is currently one of mistrust and that perception needs to be changed by education.

The Committee on Professional Relations voted to merge Member Assistance and Career Counseling programs and to establish a hotline number for inquiries. The number is (202) 872-6374. All ACS members are welcome to call.

In other actions, the Council selected individuals for membership on the Council Policy Committee, Committee on Committees, and the Committee on Nominations and Elections.

Respectfully Submitted,

Merle Eiss, Don Jones, Chuck Rowell

1990 DUES BILL

If you have not received your 1990 dues bill or have questions about your bill, please call 800-333-9511.

To charge your payment by phone, call toll-free (800) 227-5558, or in Washington, D.C. area call (202) 872-6293.

If you have questions concerning your membership, call Audra Rafter, Manager, Office of Member Services at (202) 872-4414.

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671-3482

Maryland Service Award...Donald Jones

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Community College of Baltimore
396-7991

Women Chemists.....Ann Abeles
698-1604

Chemical Education and Safety.....
435-0100 Stephen Gregory

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Hope L. Bober Jeanette S. Hamilton
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CATHERINE CLARKE FENSELAU

Catherine Fenselau grew up in Nebraska. She received an A.B. degree from Bryn Mawr College in Pennsylvania and a Ph.D. from Stanford University. She studied at Stanford in the laboratory of Carl Djerassi. After post-doctoral work at the University of California and the NASA Space Science Laboratory at Berkeley, she joined the faculty of The Johns Hopkins University School of Medicine. She became a professor in 1982. In 1987 she moved to the University of Maryland Baltimore County as Professor and Chair of the Department of Chemistry and Biochemistry.

Dr. Fenselau has delivered invited lectures in Europe, Asia and North America. She has been visiting professor at the University of Warwick and at Kansai Medical University. She has been president of the American Society for Mass Spectrometry (1982-84), editor-in-chief of *Biomedical and Environmental Mass Spectrometry* (1973-89) and associate editor of *Analytical Chemistry* (1989 -). In 1985 she received the Garvan Medal.

Dr. Fenselau is well known for her studies of the chemistry and enzymology of metabolic conjugation and the development of mass spectrometry to solve problems in biochemistry and pharmacology. Her current work addresses chemical and enzymologic aspects of protein modification and metabolism, as well as applications of mass spectrometry in biotechnology. She has published more than 160 papers and book chapters and has been instrumental in establishing and directing two major NSF Mass Spectrometry Centers: the Middle Atlantic Mass Spectrometry Center at Johns Hopkins (1978-87) and the Center for Structural Biochemistry at UMBC since 1987.

HIGH SCHOOL TEACHERS AWARDED MINIGRANTS

Eight high school teachers have been awarded \$1,000 each for development of lessons and materials in the area of science, technology, and society (STS) education by the American Chemical Society. Projects will be developed during the 1989-90 school year; dissemination of materials will begin in the spring of 1990.

The grant funds will support production of original lessons and resources that will be used over two to four days, or in teacher-designed curriculum modules using existing materials to comprise a four- to nine- week unit. Hands-on activities and an emphasis on problem solving, decision-making, and critical thinking skills are primary features of all the projects.

The goals of the ACS-STs Minigrants, offered by the Office of Precollege Science, are to help students understand science in its societal context, to assist teachers in developing and implementing innovative curriculum, and to form a cadre of experienced teachers and a selection of programs to serve as models for continued evolution of science programs.

All ACS-STs Minigrants project directors are high school teachers and are members or national affiliates of the American Chemical Society. Other participants in the projects include other teachers, college and university professors, members of ACS local sections, and members of local industry. Local sections have been particularly helpful in providing matching funds for the grants. Together with industry and school districts some \$5,800 in matching funds has been contributed to the STS projects.

ACS will conduct the minigrants program again in 1990. Applications for the 1990-91 school year are now available. The application deadline for projects scheduled to begin in the fall of 1990 is March 15, 1990.

For details and an application packet call or write David Licata, Manager, Office of Precollege Science, American Chemical Society, 1155 Sixteenth St., NW, Washington, D.C. 20036; (202) 872-4590.

THE MARYLAND CHEMIST AWARD

DATE:

Wednesday, December 13, 1989

PLACE:

Faculty/Staff Dining Hall
University of Maryland
Baltimore County

SPEAKER & TOPIC:

The Maryland Chemist Award
Address
8:00 pm
DR. CATHERINE CLARKE FENSELAU
University of Maryland
Baltimore County
"Biopolymer Structure Studies
by Mass Spectrometry"
Followed by the presentation of
The Maryland Chemist Award.

COCKTAILS & DINNER:

Social Hour 6:00 pm
(Sponsored by Fisher Scientific)
Dinner 7:00 pm

Dinner price is \$12.00 per person;
spouses and retired chemists, \$10.00;
students may attend for \$6.00

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

Ms. Menyan Cheng
Nova Pharmaceutical Corp.
6200 Freeport Center
Baltimore, Maryland 21224

by December 6. Late reservations
may be made by calling (301) 563-6183
by December 9 (answering machine).

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: From I-695, take I-95 south towards Washington. Take Exit 47B onto Route 166. Stay in the right lane and follow the signs to UMBC. Route 166 dead ends into Loop Road. Turn right onto Loop Road and follow it to Back Road. Turn left onto Back Road. The dining hall, a circular building, is on the left side of Back Road about one block from the intersection of Loop and Back Roads.

MARYLAND SERVICE AWARD TO KRIS KIRK

The recipient of the 1989 Maryland Section Distinguished Service Award is Maria Kristine Kirk of the College of Notre Dame of Maryland. Kris is perhaps best recognized as Secretary of the Maryland Section from 1985 through 1988.

She joins previous recipients of the award Don Jones, Ernie Silversmith, Tim Parr, Mel Miller, Howard Cohen, Al Bober, Elwin Penski, Merle Eiss and Ray Petersen.

ACS SCIENCE POLICY FELLOWSHIP 1990-91

One candidate is selected to work, starting in the Fall of 1990, with the ACS Department of Government Relations and Science Policy on science policy issues. The stipend is \$31,000, and applications are due on January 5, 1990. Contact: Mr. Eugene Voegtlin, 202/452/2127.

ChemREFS

ChemREFS is an experimental electronic bulletin board that carries information on federal sources of funding for research and education in the chemical sciences and engineering. Contact: Mr. Eugene Voegtlin, 202/452/2127.

SUGGESTIONS REQUESTED FOR POSSIBLE NOMINEES TO INVENTORS
HALL OF FAME

All ACS members are invited by the Society's Committee on Patents and Related Matters (CP&RM) to make suggestions to the Committee on possible candidates for induction into the National Inventors Hall of Fame. The inventor must be a U.S. citizen (naturalized or otherwise); and the invention upon which the nomination is based must be covered by a U.S. patent. The invention must have contributed greatly to the national welfare, and significantly promoted progress in science and the useful arts.

The nomination document requires certain information about any prospective nominee: the name of the inventor; the year of birth (and death, if no longer living); and, who would represent the inventor at an induction ceremony (i.e., the inventor personally, or a next of kin, relative, or a prior employer or associate) and where and how that person could be reached. A biographical sketch also is necessary. The serial number of the patent(s) upon which the nomination is based is essential.


The first inventor inducted into the Hall of Fame was, fittingly enough, Thomas Edison, in 1973. Other inventors already inducted into this select body are Messrs. Alexanderson, Alford, Alvarez, Armstrong, Baekeland, Bardeen, Beckman, Bell, Black, Brattain, Burbank, Burroughs, Burton, Camras, Carlson, Carothers, Carrier, Coolidge, Damadian, Deere, deForest, Diesel, Djerassi, Dow, Draper, Eastman, Edgerton, Farnsworth, Fermi, Ford, Forrester, Goddard, Goodyear, Greatbatch, Hall, Higonnet, Hillier, Kettering, Kilby, Kolff, Land, Langmuir, Lawrence, McCormick, Marconi, Mayroud, Mergenthaler, Morse, Moyer, Noyce, Otis, Otto, Parker, Pasteur, Plank, Plunkett, Rosinski, Sarett, Shockley, Sikorsky, Steinmetz, Stibitz, Tabern, Tesla, Tishler, Townes, Volwiler, Wang, Westinghouse, Whitney, W. Wright, and Zworykin. The Hall is dedicated to the individuals who conceived the great technological advances which this nation fosters through its patent system. The Hall honors these inventors and brings public recognition to them and to their contributions to our nation's welfare.

Persons who have been inducted after being nominated by ACS include Arnold O. Beckman, for his invention of a pH-meter for measuring acidity and alkalinity; Wallace H. Carothers, for major contributions to the development of neoprene and nylon; Carl Djerassi, for the invention of oral contraceptives; Charles Martin Hall, for the discovery of the electrolytic method for cheaply producing aluminum; Irving Langmuir, for the invention of the incandescent electric lamp; and Max Tishler, for his discovery of processes for the cheap synthesis of vitamins, and for his synthesis of sulfaquinoxaline, an antibiotic used as an additive in poultry feed to prevent coccidiosis.

Inventors are selected each year for the Hall of Fame by the Selection Committee of the Hall of Fame Foundation. The Selection Committee is composed of representatives from national scientific and technical organizations, including ACS. Each year the members of this Committee vote to select the most qualified inventors from those who are nominated for induction.

Nomination documents may be obtained by contacting the Staff Liaison to CP&RM, Ms. Nancy Mullens (202/872-4479); they will need to be submitted to Ms. Mullens by February 1, 1990.

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FUTURE MEETINGS

JANUARY 17:

MEETING CANCELED

FEBRUARY 21:

W. R. GRACE RESEARCH CENTER
J. AXELROD
NATIONAL INSTITUTES OF HEALTH

MARCH 21:

U. S. NAVAL ACADEMY
OCEANOLOGY

APRIL 18:

WESTERN MARYLAND COLLEGE
A. MCCLELLAND
NSF
CAREERS IN CHEMISTRY

FELLOWSHIPS FOR NUCLEAR CHEMISTRY SUMMER SCHOOL
FOR CHEMISTRY MAJORS

Twenty-four fellowships are available for qualified chemistry majors finishing their sophomore or junior years to attend the Summer School in Nuclear Chemistry at either San Jose State University in California or Brookhaven National Laboratory on Long Island, New York. The awards include transportation, books, fees, room and board as well as six units of college credit. The program of lectures, laboratories, and tours is designed to interest students in pursuing a career in nuclear chemistry in order to alleviate a severe shortage of manpower in a number of areas of national need: health care, including nuclear medicine, the radio-pharmaceutical industry, national security, nuclear energy, nuclear waste isolation, environmental issues and fundamental nuclear science. Graduates of the Summer Schools are assisted in finding employment the following summer at national laboratories, universities or in industry. Applications, due January 30, 1990, and further information may be obtained from:

Summer Schools in Nuclear Chemistry
Attn: Dr. P. A. Baisden L-234-rc
Lawrence Livermore National Laboratory
P. O. Box 808
Livermore, California 94551

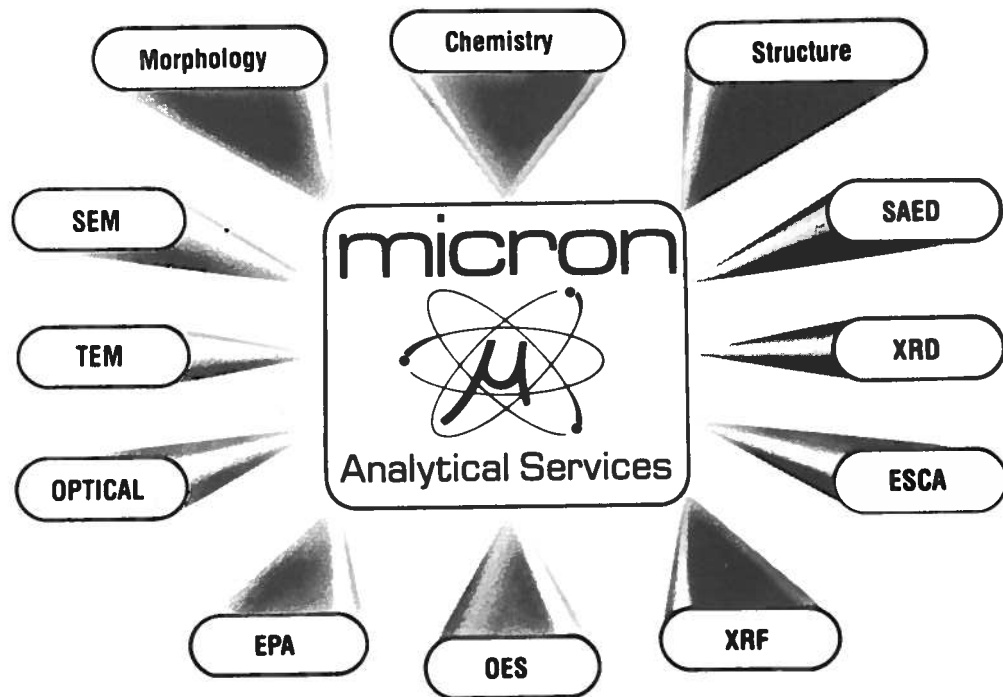
The Center for Indoor Air Research, a new non-profit corporation which sponsors objective scientific research on the full gamut of indoor air research topics, has available its 1989/1990 Request for Applications booklet. For the provision of sufficient time for the Science Advisory Board and peer review process to occur, applications for July 1, 1990 funding must be received by December 31, 1989. For more information on the Center for Indoor Air Research and/or a copy of the Request for Applications booklet, call or write:

Center for Indoor Air Research
1099 Winterson Road, Suite 280
Linthicum, Maryland 21090
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