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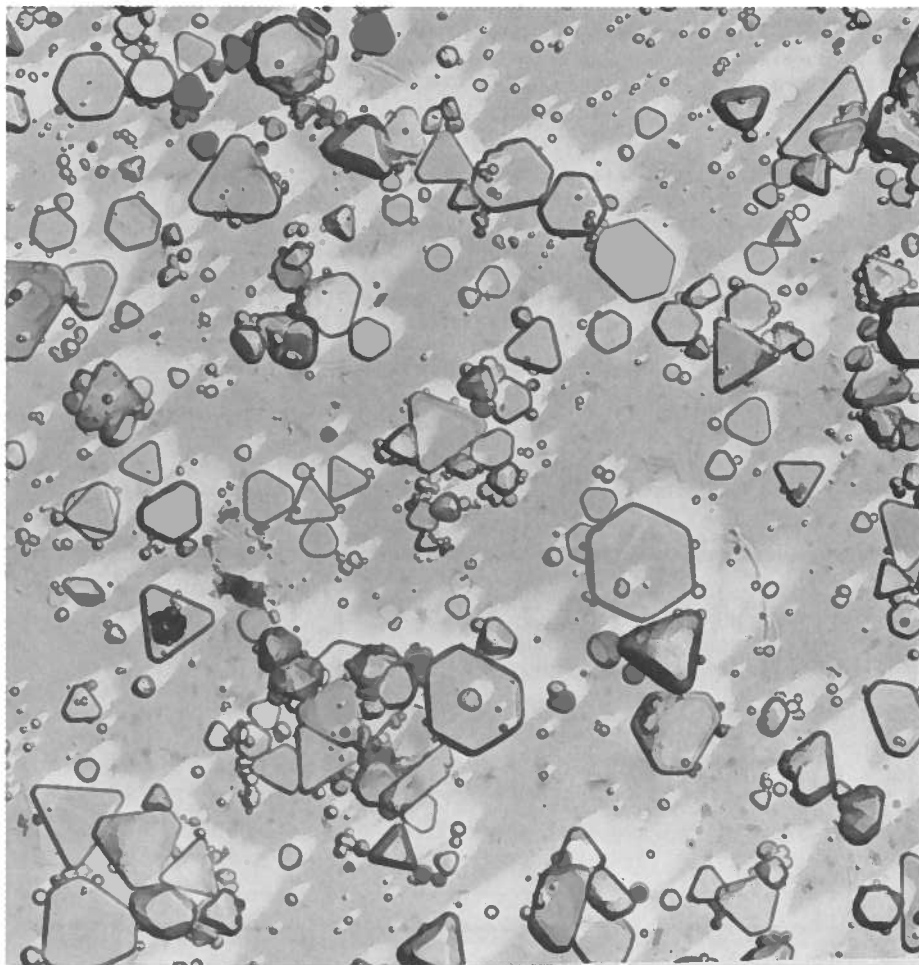
CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXVI

OCTOBER, 1980

NUMBER 7



SILVER HALIDE CRYSTALS

ALBERT LEO RECEIVED SIGMA XI AWARD

The Chesapeake Chapter of Sigma Xi, The Scientific Research Society presented its first Chesapeake Award for Excellence in Science to Dr. Albert J. Leo at the 1980 Initiation and Awards Dinner held on June 5th at the Officers' Club in the Edgewood Area of Aberdeen Proving Ground. Dr. Leo is presently the Director of the Pomona College Medicinal Chemistry Project, Pomona College, Claremont, California and is co-author of the definitive work "Substituent Constants for Correlation Analysis in Chemistry and Biology." The Chesapeake Chapter honored Dr. Leo for his work which has had important impact on computer-aided drug design research. Dr. Leo delivered the keynote address of the evening entitled "The Ultimate Basis of Biological Activity."

THE AUSTIN M. PATTERSON - E.J. CRANE AWARD

The Dayton and Columbus Sections of ACS are sponsors of the Austin M. Patterson - E. J. Crane Award, made for contributions in the fields of chemical literature, documentation of chemistry, chemical information storage and retrieval, and implementing and managing chemical information services.

Nominations must be received by January 10 of odd-numbered years. Information may be obtained from The Patterson - Crane Award Committee, Chemistry Department, Wright State University, Dayton, OH 45435.

CONSULTING SERVICES

The Association of Consulting Chemists and Chemical Engineers, Inc., a non-profit member corporation established in 1928, now has available its latest directory of consultants to the chemical process industries. The price of the directory is \$25.

The association also maintains a clearing house for consultants and holds periodic meetings at which prominent guest speakers discuss pertinent and topical subjects.

Further information about the association may be obtained from its Executive Secretary, 50 East 41st Street, New York, N. Y. 10017.

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THE CHESAPEAKE CHEMIST

VOL. XXXVI

OCTOBER, 1980

NUMBER 7

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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 Raymond C. Petersen, 9329 Joey Drive, Ellicott City, Md. 21043. Send advertising copy and inquiries to Merle I. Eiss, 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.

Edward J. Walsh was born in Waterbury, Connecticut and received a B.S. in chemistry from Yale in 1963. At the University of Wisconsin he worked with Jerome A. Berson on the "Scope and Mechanism of the Oxy-Cope Rearrangement" and received a Ph.D. in organic chemistry in 1968. In the following year he held an NIH post-doctoral fellowship with Jerrold Meinwald at Cornell.

Dr. Walsh was a Lecturer at the University of Rochester, University College, from 1970-1975. He has been associated with Eastman Kodak Research Laboratories since 1969 and is currently Laboratory Head, Color Photography Division.

THE INSIDE STORY OF COLOR PHOTOGRAPHY

Color has excited the interest of untold generations, but it was not until 1666 that Isaac Newton showed that color is a property of light itself. A further lapse of almost 200 years occurred before color-photographic principles were first demonstrated. Maxwell, at that time, showed that pictures in red, green, and blue could be superimposed on one screen to give a representation in color of a subject photographed through red, green, and blue filters. Registration of such images is very difficult and light losses are high since each of the filters transmits only one-third of the projector output. Maxwell's experiment will be demonstrated.

Nearly all modern color photographic processes use images in three different colors: cyan (blue-green), magenta (blue-red), and yellow. These are complementary to red, green, and blue, respectively; each transmits two-thirds of the projector output and, since the images are formed in superposition in a single photographic material, registration is no problem. Dyes of these hues are formed by chemical reactions within emulsions which are a few ten-thousandths of an inch thick. The advent of "instant" color photography has been a challenge to organic chemists and photographic scientists alike. The principles of such systems will be discussed.

POSTER SESSION

Sponsored by the Chesapeake Chapter of Sigma Xi, the Scientific Research Society

Dr. Paul Bossle, Analytical Branch, APG
"Ion Chromatography"

Mr. Wendel J. Shuely, III, Chemical Branch, APG
"Computerized Thermogravimetric Analysis"

Mr. William P. Ashman, Physics Branch, APG
"Acetylcholinoreceptor Environment Model"

FALL INSTITUTE IN SCIENCE AND TECHNOLOGY

The State University of New York at New Paltz will again sponsor a Fall Institute in Science and Technology. A course in scanning electron microscopy will be conducted from October 20-24, and a course on fundamentals of adhesion will be held from November 5-7.

For further information contact Dr. Angelos V. Patsis, Department of Chemistry, State University of New York, New Paltz, N.Y. 12561, (914) 257-2175.

OCTOBER MEETING



EDWARD J. WALSH

SCHEDULE:

- 6:00 Cocktails
Poster Session
- 7:00 Dinner
- 8:30 Edward J. Walsh
Eastman Kodak Co.
"The Inside Story of
Color Photography"

RESERVATIONS:

Reservations should be made by mailing checks to

Elwin C. Penski
2515 Jerusalem Road
Joppa, MO 21085

by October 10. If necessary, 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 October 9.

Dinner price \$8.00 per person, but spouses, students and retired members may attend for \$6.00

DATE:

Wednesday, October 15, 1980

PLACE:

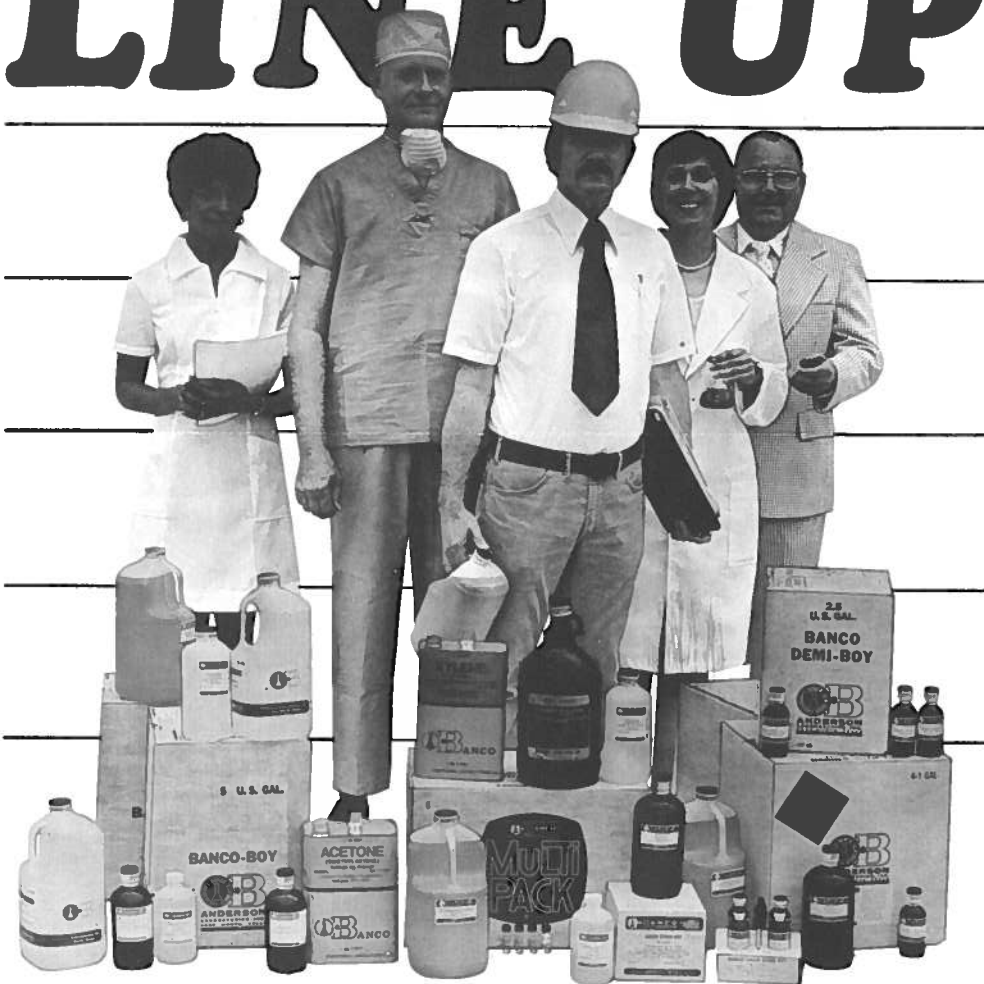
Officers' Club
Edgewood Area
Aberdeen Proving Ground
(NOT the Aberdeen Area)

It is not necessary to be a member of the American Chemical Society to attend.

DIRECTIONS: Take I-95 to exit 4. Take route 24 south to the Edgewood Area of Aberdeen Proving Ground. The guard will be expecting all who have made reservations. After being admitted by the guard, continue straight past a traffic light. The road will then be identified as Hoadley Road. Follow this to a stop sign, a chapel and Austin Road. Turn right on Austin Road. After a Children Warning sign bear left onto Parrish Road. The second right, Gunpowder Loop, will pass the front of the Officers' Club (Bldg E-4650). Parking is in the rear.

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IOTA SIGMA PI AWARDS

IOTA SIGMA PI, National Honor Society for Women in Chemistry, is soliciting nominations for the following awards: National Undergraduate Award, National Graduate Award, Award for Professional Excellence, Research Award, and National Honorary Member. For each of the awards the deadline for receipt of the nomination dossier is February 1, 1981. For additional information and nomination forms write as follows: National Undergraduate Award—Ms. Margaret Ellis, Division of Science and Mathematics, Seattle, Central Community College, 1705 Broadway, Seattle, WA 98122; National Graduate Award—Dr. Celia Menendez-Botet, Biochemistry-Memorial Sloan Kettering Cancer Center, 1275 York Ave., New York, NY 10021; Award for Professional Excellence—Dr. Lynda Ellis, Division of Health Computer Sciences, University of Minnesota, Box 501 Mayo Memorial Building, Minneapolis, MN 55455; Research Award—Sister Mary Rose Stockton, Department of Chemistry, Marian College, 3200 Cold Spring Road, Indianapolis, IN 46222; National Honorary Member—Dr. Violet Diller, Department of Physics, University of Cincinnati, Cincinnati, OH 45221.

NORTHEAST REGIONAL CONFERENCE ON COOPERATIVE EDUCATION IN CHEMISTRY

The Northeastern Regional Conference on Cooperative Education in Chemistry will be held in Morristown, New Jersey, October 16-17, 1980. It is the third in a series sponsored by ACS to provide background information for academic chemistry departments, industrial firms and government agencies interested in developing new cooperative programs for chemists.

To obtain additional information about this conference contact Sr. Marian Jose Smith, Dept. of Chemistry, College of St. Elizabeth, Convent Station, N.J. 07961, (201) 539-1600.

For information about other conferences in the series or other ACS cooperative education activities contact Dr. Robert W. Ridgway, Office of Cooperative Education, ACS, 1155 - 16th St., N.W., Washington, D.C. 20036.

ELECTION OF SECTION OFFICERS

Please complete the following ballot for the election of the 1981 officers, councilors, and members-at-large of the Maryland Section, and mail it to Frances Hummel, 9627 Whiteacre Road, Columbia, MD 21045. Please sign the envelope so that Section membership can be verified, but do not sign the ballot itself.

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(Vote for five)

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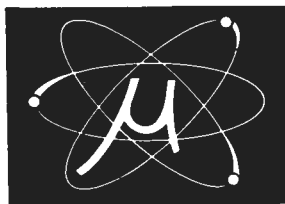
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- ☐ **Electron Probe X-Ray Microanalysis**
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- ☐ **Electron Spectroscopy for Chemical Analysis**
Analysis of thin (25-50Å) surface films
- ☐ **Optical Emission Spectroscopy**
Semi quantitative and quantitative analysis of trace elements
- ☐ **X-Ray and Electron Diffraction**
Identification of crystalline compounds
- ☐ **X-Ray Fluorescence**
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