



THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXIX

OCTOBER, 1983

NUMBER 7

THE JOHNS HOPKINS UNIVERSITY

Department of Chemistry

Fall Semester Colloquium Schedule 83-84

Our colloquia are held at 4:15 pm (unless otherwise noted) in Remsen Hall 221 on the Homewood Campus of The Johns Hopkins University. Refreshments are served before each colloquium at 4:00 pm.

=====

<u>Day and Date</u>	<u>Speaker and Affiliation</u>	<u>Title or Field</u>
WEDNESDAY, October 12, 1983	Professor Thomas Cech Department of Chemistry University of Colorado Boulder, Colorado	"Self-Splicing RNA: The Intervening Sequences of the R-RNA Precursor of Tetrahymena is Looking More and More Like an Enzyme"
Tuesday, October 18, 1983	Dr. Steven Bertz Bell Laboratories	Field - Chemistry of organocopper reagents, arenesulfonylhydrazones, metal-carbin complexes, glycoaxal. Study of chemical topology, molecular complexity and chemical applications of graph theory and information theory.
Tuesday, October 25, 1983	Professor W. H. Breckenridge Department of Chemistry University of Utah	"Nascent Rotational Quantum State Distributions of Diatomic Products of Chemical Reactions"
Tuesday, November 1, 1983	Professor Charles R. Cantor Department of Human Genetics and Development Columbia University, N.Y.	"Nucleic Acids in Tight Places"
Tentative- Tuesday, November 8, 1983	Professor Evan P. Kyba Department of Chemistry University of Texas, Austin	Field - Organic chemistry - working on reactive intermediates, photochemistry; macrocyclic ligands; small heterocycles, transition metal-catalyzed reactions.

ACS VIDEO SHORT COURSE

TOPIC: CHEMICAL ENGINEERING FOR CHEMISTS
 SPONSOR: Maryland Section of ACS
 COORDINATOR: Dr. Linh Cheong, SCM Corporation, Baltimore, MD 21226
 DATES: November 14 and 21 at 7:00 pm
 PLACE: University of Maryland, Baltimore County
 Lecture Hall IV, Academic IV
 COST: ACS members \$35.00, high school teachers \$17.50; there will be a late registration fee of \$10.00 (after November 1); 20% discount for three or more registrants from the same organization (prior to November 1).
 REGISTRATION: Register by November 1; check made out to Maryland Section of ACS should be sent to:
 Alvin Bober, Chemistry Department, University of Maryland
 Baltimore County, Baltimore, MD 21228
 INFORMATION: Call Alvin Bober (455-2491 or 821-5980) or
 Linh Cheong (355-3600 ext 208)

POLYMERS FOR ELECTRONIC APPLICATIONS

As part of its Fall Institute in Science and Technology program, the State University of New York at New Paltz is sponsoring a short course entitled "Polymers for Electronic Applications". The course will be held at the Lake Mohonk Mountain House from November 7-9.

Further information is available from Dr. A. V. Patsis, Chemistry Department, CSB 209, State University of New York, New Paltz, NY 12561; telephone (914) 257-2175.

ELECTION OF SECTION OFFICERS

Please complete the following ballot for the election of the 1984 officers, councilors and members-at-large of the Maryland Section, and mail it to Cheryl Manger, 2533 Ebony Road, Baltimore, MD 21234. Please sign the envelope so that Section membership can be verified, but do not sign the ballot itself.

Chairman-elect	Harold Klapper	_____
Secretary	Cheryl Manger	_____
Treasurer	John Roach	_____
Councilor	Charles Rowell	_____
Alternate Councilors	Linda Sweeting (3 years)	_____
(vote for two)	Alvin Bober (2 years)	_____
Members-at-large	Paul Gabbert	_____
(vote for five)	Don Hoster	_____
	M. Kris Kirk	_____
	Thomas Bitterwolf	_____
	Barbara Seiger	_____



THE CHESAPEAKE CHEMIST

VOL. XXXIX

OCTOBER, 1983

NUMBER 7

THE CHESAPEAKE CHEMIST STAFF

Raymond C. Petersen.....Editor
 9329 Joey Drive
 Ellicott City, MD 21043
 465-8520
 Joseph Topping.....Associate Editor
 Department of Chemistry
 Towson State University
 Towson, MD 21204
 321-3056
 Eli Freedman.....Contributing Editor
 Alan Harmon.....Business Manager
 McCormick & Co., Inc.
 Hunt Valley, MD 21031
 667-7480

COMMITTEE CHAIRPEOPLE - 1982

Awards.....Ernest Silversmith
 Morgan State University
 Baltimore, MD 21239
 444-3214
 Chemical Education and Safety.....
 655-5254 Alvin Bober
 Program.....Nolan Phillips
 Archives.....Ernest Silversmith
 House.....Paul Gabbert
 Linh Cheong
 Member Assistance.....Joseph Cogliano
 W. R. Grace & Co.
 988-9004

SECTION OFFICERS

Charles Rowell.....Chairman
 U.S. Naval Academy
 Chemistry Department
 Annapolis, MD 21401
 267-2808
 Nolan Phillips.....Chairman-elect
 J. M. Huber Corp.
 Havre de Grace, MD 21078
 385-0159
 Cheryl Manger.....Secretary
 SCM Corp.
 Baltimore, MD 21226
 355-3600 ext 358
 Harold Klapper.....Treasurer
 3313 Terrapin Drive
 Pikesville, MD 21208
 653-3351

Public Relations.....Robert W. Kreps
 Westinghouse Ocean Systems
 765-5230
 Membership.....Maria Kristine Kirk
 4000 Mayberry Avenue
 Baltimore, MD 21206
 435-0100
 Publicity.....Donald Jones
 Western Maryland College
 Student Awards.....Donald Hoster
 Community College of Baltimore
 396-7991
 Remsen Award.....Robert L. Caret
 Towson State University
 Finance.....Harold Klapper
 653-3351

MEMBERS-AT-LARGE

John Roach Paul Gabbert
 Timothy McNeese Alice Zeiger
 Thomas Bitterworth

ALTERNATE COUNCILORS

Linda Sweeting Merle Eiss
 Timothy McNeese

COUNCILORS

Donald Jones.....Western Maryland College
 848-7000 ext 493 or 876-2055
 David Roswell.....Loyola College
 323-1010 ext 235
 Charles Rowell.....U. S. Naval Academy
 267-2808

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.

Alan MacDiarmid received his B.Sc. and M.Sc. degrees from the University of New Zealand. He received the Ph.D. degree in 1953 from the University of Wisconsin, where he held a Fulbright Scholarship. He also received a Ph.D. from the University of Cambridge (1955). He was awarded in 1972 an honorary M.A. from the University of Pennsylvania and in 1983 an honorary Ph.D. from Elizabethtown College.

After teaching briefly in 1955 at the University of St. Andrews in Scotland, Dr. MacDiarmid became an Instructor at the University of Pennsylvania, where he is now Professor of Chemistry. In 1967 he received the ACS Philadelphia Section Award and in 1971 the ACS's Frederic Stanley Kipping Award in Organosilicon Chemistry. In 1982 he received the Madison Marshall Award of the ACS North Alabama Section and the Doolittle Award of the ACS Division of Organic Coatings and Plastics Chemistry. In 1983 he was the recipient of the Centenary Medal of the Royal Society of Chemistry (England), the Jeremy I. Musher Memorial Lectureship at the Hebrew University in Jerusalem, and the ASEA Centenary Lectureship in Sweden. He has also been a guest professor at the University of Karlsruhe and at Kyoto University.

He is a former member of the Board of Editors of *Inorganic Chemistry*, and now serves on several editorial boards including those of *Inorganic Syntheses*, *Syntheses in Inorganic and Metal-Organic Chemistry*, *Journal of Inorganic and Nuclear Chemistry*, *Inorganic Methods and Reactions* and *Journal of Synthetic Metals*. He is Editor of Volume XVII of *Inorganic Syntheses*. He is a counselor of the Philadelphia Section of ACS and in 1975 served as Chairman of the Inorganic Division of ACS.

Dr. MacDiarmid is co-author of about 250 papers in various fields: silicon hydrides; silicon-transition metal carbonyls; organo-silicon monomers and polymers; fluorine compounds of silicon, sulfur and phosphorus; silicon adducts with bipyridyl radical anions; sulfur-nitrogen chemistry; polyacetylene and polymeric low-dimensional metals; and electrochemistry of organic polymers.

POLYACETYLENE, (CH)_x, THE PROTOTYPE CONDUCTING POLYMER

Silvery films of the flexible, semiconducting polymer, polyacetylene, (CH)_x, either in its *cis* or *trans* form, may be oxidized (p-doped) or reduced (n-doped) either chemically or electrochemically through the semiconducting to the metallic regime to give lustrous silvery or golden flexible films of "organic metals". A summary of the chemistry, electrochemistry, physics, bonding and structure of the parent and doped materials will be presented.

MICROANALYSES

Analysis for all elements

Trace analyses and molecular weights

GALBRAITH LABORATORIES, INC.

P.O. Box 4187 • Knoxville, TN 37921

(615) 546-1335

OCTOBER MEETING

DATE:

Wednesday, October 26, 1983

PLACE:

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

SPEAKERS AND TOPICS:

5:45 pm
Jack R. Lodge
Baltimore Gas & Electric Co.
"The Electric Utility
Perspective on Acid Rain"

8:30 pm
Alan G. MacDiarmid
University of Pennsylvania
"Polyacetylene, (CH)_x, the
Prototype Conducting Polymer"



ALAN G. MACDIARMID

COCKTAILS AND DINNER:

Doyle Building Dining Room
Cocktails 6:45
Dinner 7:30
Steamship Roast Beef

Dinner price \$10.00 per person, but retired chemists and students may attend the dinner for \$8.00

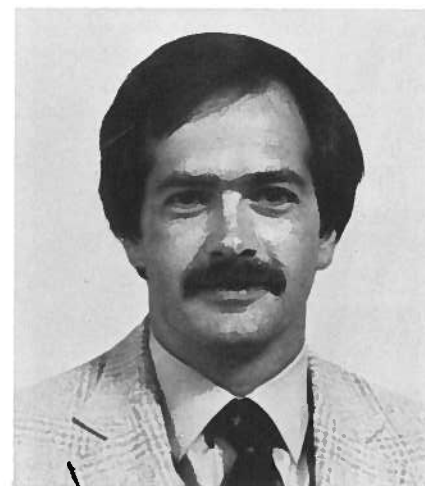
Dinner reservations should be made by mailing checks, payable to Maryland Section of ACS, to

Nolan Phillips
J. M. Huber Corp.
Havre de Grace, MD 21078

by October 17. Late reservations may be made by calling Linh Cheong (x 208) or Cheryl Manger (x 358) at

(301) 355-3600

by October 20.



JACK R. LODGE

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

CHANGES OF ADDRESS

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

JACK R. LODGE

Jack R. Lodge is employed as a Senior Engineer by the Baltimore Gas & Electric Company. He received a B.S. in chemical engineering from the University of Maryland in 1968 and an M.S. in environmental engineering from the Johns Hopkins University in 1978.

Since 1970 Jack Lodge has been involved in a variety of air, water and radiological environmental issues related to the fossil fuel and nuclear generation of electricity. He is currently working on air quality issues.

His affiliations include the Air Pollution Control Association (Acid Precipitation Committee), the Utility Air Regulatory Group (Acid Deposition Committee) and the Maryland Chamber of Commerce Air Quality Committee.

THE ELECTRIC UTILITY PERSPECTIVE ON ACID RAIN

The electric utility industry position on the acid rain issue is essentially three-fold:

- 1) not enough is presently known about acid rain to adopt a control program;
- 2) more research is needed to assure the effectiveness of any measures that may be taken; and
- 3) there is no basis for the urgency which characterizes several current legislative proposals for further emission reductions.

The rationale underlying this philosophy will be discussed.

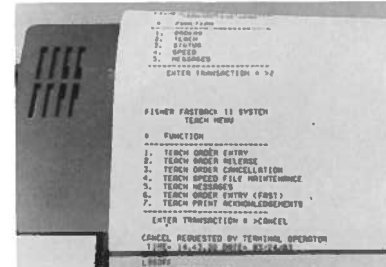
REMSEN AWARD

The Remsen Award Committee is accepting nominations and suggestions for the 1984 Remsen Award. Nominations and requests for information should be sent to Dr. Robert L. Caret at Towson State University.

MARYLAND SECTION FUTURE PROGRAM

DATE AND LOCATION	SPEAKER	TOPIC
November 16, 1983 Edgewood	David Katz Comm. College of Philadelphia	Chemistry in the Toy Store
December 14, 1983 College of Notre Dame	Maryland Chemist of the Year	
February 15, 1984 College of Notre Dame	Alan Adler West. Conn. State U.	The Shroud of Turin
March 28, 1984 Aquarium in Baltimore	Aquarium Staff Member	Artificial Sea Water
April 25, 1984 West. Maryland Coll.	Basam Shkhashiri U. of Wisconsin	New Ideas and Exhortations for Using Chemical Demonstrations
May , 1984 Johns Hopkins	Remsen Award	

FASTBACK[®] A lab supply ordering system that speaks your language



FASTBACK took us 15 years and millions of dollars to develop. And it was worth every minute, every penny. The system expedites all our sales and inventory control functions. Now we're able to pass it on as a service to Fisher customers. FASTBACK provides instant access to more than 80,000 lab supply items — industrial, clinical, medical and educational.

It's simple, too. Communicate with our main computer via teleprinter in English, not "computerese." You eliminate paperwork since orders are printed as they're placed. And FASTBACK is as easy to install as it is to use. Your data terminal may already be suitable to plug into the system. For more details, just contact your Fisher rep or nearest branch.

7722 Fenton Street
Silver Spring, MD 20910
(301) 587-7000

D M D DATA
MANAGEMENT
DIVISION

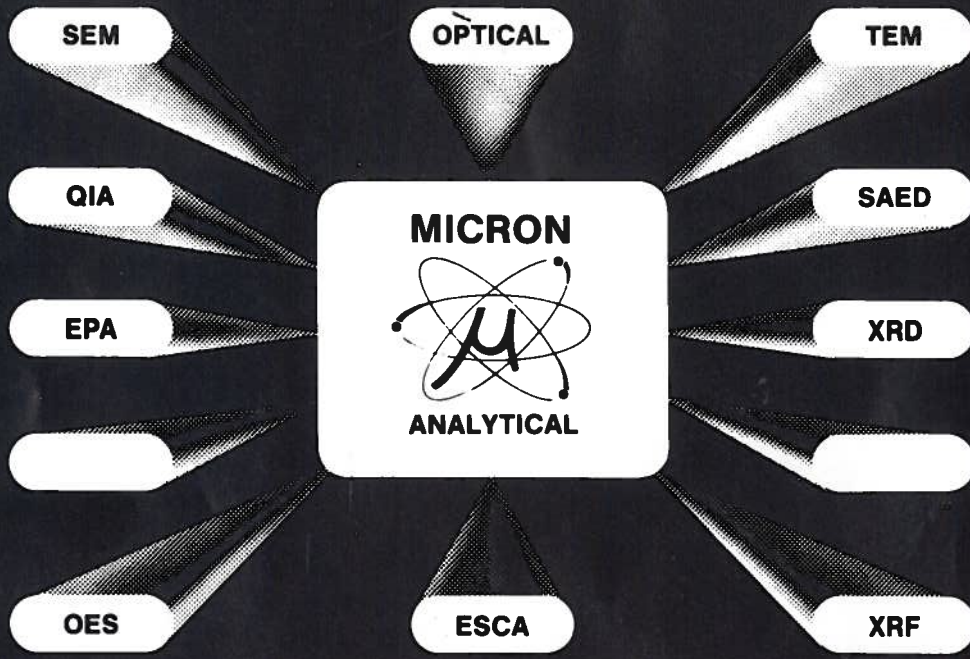
Fisher Scientific
An **ALLIED** Company

0117980X 10/83 ZN 301
DR YALE HOWARD CAPLAN
3411 PHILIPS DR
PIKESVILLE MD 21208

1



PLEASE DO NOT DELAY — DATED NOTICE INSIDE



INTEGRATED ANALYTICAL SERVICES
P.O. BOX 3536 WILM. DEL 19807
PHONE 302-998-1184

ANALYTE

LABORATORIES, INC.

ACIDS - BASES

HAZARDOUS WASTE

ANTIFREEZES

301-747-3844

ORGANIC SCREENS

BOILERS

ANALYTICAL CHEMICAL
SERVICES

PETROLEUM

ENVIRONMENTAL

6630 Baltimore Natl. Pike
Route 40 West
Baltimore, Maryland 21228

SOLVENTS