



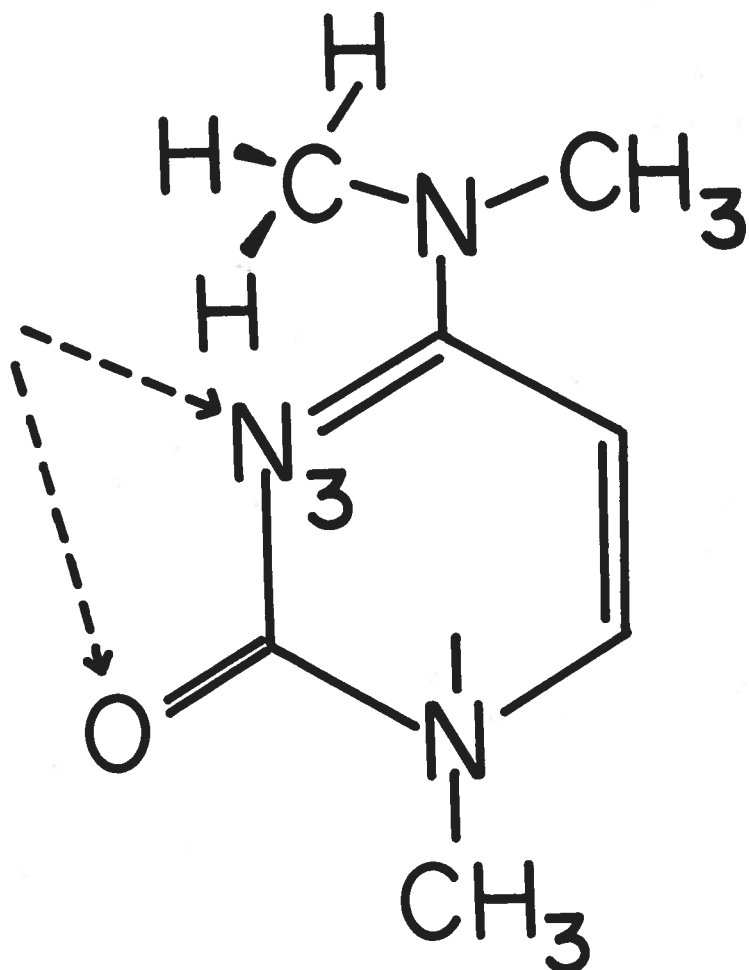
THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXIV

NOVEMBER, 1978

NUMBER 8



ELECTION OF MARYLAND SECTION OFFICERS FOR 1979

CHAIRMAN-ELECT: Melvin Miller _____ SECRETARY: Frances Hummel _____
 TREASURER: Ronald Kassel _____
 COUNCILLORS: Charles Rowell _____ Donald E. Jones _____ F. Timothy Parr _____
 (vote for 3)
 ALTERNATE COUNCILLORS: Merle Eiss _____ Alvin Bober _____
 (vote for 2)
 MEMBERS-AT-LARGE: Sr. Mary Vincent _____ Robert Caret _____ Alice Zeiger _____
 David Herlocker _____ Harold Klapper _____

The 1978 Chairman-Elect, Howard Cohen, becomes the 1979 Chairman.

Instructions: Mark your ballot, place it in an envelope, sign the envelope, and mail it to Robert Schneider, Secretary, Maryland Section, ACS, 1021 St. Michael Road, Mt. Airy, MD 21771, so that it is postmarked no later than November 17, 1978. The outer envelope must be signed to validate your ballot.



THE CHESAPEAKE CHEMIST

VOL. XXXIV NOVEMBER, 1978 NUMBER 8

EDITORIAL STAFF

Eli Freedman.....Editor
 2411 Diana Road
 Baltimore, MD 21209
 Phone: (301) 484-0632 after 7 pm
 Raymond C. Petersen..Associate Editor
 9329 Joey Drive
 Ellicott City, MD 21043
 Phone: (301) 465-8520 after 7 pm
 Linda M. Sweeting....Associate Editor
 Department of Chemistry
 Towson State University
 Phone: (301) 321-3113

COMMITTEE CHAIRPEOPLE - 1978

Awards & National Nominations....
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 The Johns Hopkins University
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 Maryland
 435-0100
 Program.....Howard Cohen
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 633-6400
 House.....Elwin C. Penski
 CSL, APG-EA
 671-3953
 Member Assistance.....Joseph Cogliano
 W. R. Grace & Co.
 531-5711

CONTRIBUTING EDITOR

Carl E. Minnier, Essex Community College

SECTION OFFICERS

James Leslie.....Chairman
 Dept. of Medicinal Chemistry
 University of Maryland at
 Baltimore
 636 W. Lombard Street
 Baltimore, MD 21201
 Howard Cohen.....Chairman-Elect
 Glidden Pigments Div. SCM Corp.
 3901 Glidden Road
 Baltimore, MD 21226
 Robert Schneider.....Secretary
 Beckman Instruments
 1021 St. Michael Road
 Mt. Airy, MD 21771
 Ronald Kassel.....Treasurer
 Chemical Systems Laboratory
 Aberdeen Proving Ground, MD 21010

Public Relations.....Carl Minnier
 Essex Community College
 682-6000, X 513
 Membership.....Frances Hummel
 Alcolac, Inc.
 355-2600
 Publicity.....Richard H. Smith
 Western Maryland College
 848-7000
 Remsen Award.....Dean Robinson
 The Johns Hopkins University
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 Finance.....William Stahl
 377-8022

BUSINESS MANAGER

Merle Eiss
 McCormick & Co., Inc.
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 Phone: (301) 667-7485

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The binding sites (arrows)
 for metals on cytosine
 derivatives.
 Courtesy Dr. L. Marsilli

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EXECUTIVE COMMITTEE MINUTES

Minutes of the Executive Committee meeting of the Maryland Section of the American Chemical Society held on February 1, 1978 at the Knott Science Center, College of Notre Dame, Baltimore, Maryland. Present: Clara Adams, Yale Caplan, Howard Cohen, Merle Eiss, Eli Freedman, Frances Hummel, Don Jones, Joyce Kaufman, John Kolbe, James Leslie, Carl Minnier, Tim Parr, Elwin Penski, Ray Petersen, Bob Schneider, Ernie Silversmith, Sister Vincent, Alice and Bill Zeiger.

The meeting was called to order by the Chairman Jim Leslie at 8:20 pm.

Program Committee chairman Howard Cohen noted that there would be no regular April meeting due to the Middle Atlantic Regional Meeting being held on April 5th, 6th, and 7th, at Hunt Valley, MD. The matter of relocating the monthly meetings from Eudowood Gardens to Notre Dame or another suitable location was pursued with a decision being made to move the 1978-1979 dinner meetings to Notre Dame for the September, November, December, and February affairs. It was then suggested that an editorial be inserted in the September issue of *The Chesapeake Chemist* to explain the change of the meeting place location. The problem of what to do about no show reservations was considered but no action was taken at this time.

Frances Hummel of the Membership Committee advised that five new members joined the ACS thru the Section in 1977 and that already in January four new members had done the same. She also indicated that the annual list of those eligible to become ACS members and living within the Section's boundaries had been received and that the list contained 869 names. Frances suggested that a phone contact be attempted this time rather than the usual letter approach. It was agreed by all that this more personal approach might meet with more success than the former method. With this in mind, volunteers were sought in order to spread around the phone workload.

Jim Leslie made known that the Finance Committee's Chairman Bill Stahl was resigning and that the Section would begin looking for someone to assume his duties.

Carl Minnier advised that the Student Awards Committee had sent letters to all of the institutions of higher learning in the Section's territory inviting them to participate in its "Outstanding Chemistry Student Award" program. Eleven students were selected for the award by eleven different institutions. Each student was then notified by letter of the award and invited to be the Section's dinner guest at the March 15th, 1978 meeting where a certificate of merit along with a years subscription to the *Journal of Chemical Education* was to be presented during the awards part of the evening's program.

Don Jones on behalf of the MARM Committee's Fred Gornick reported that some 350 papers were to be presented at the meeting; that Harry Brown of W.R. Grace had solicited a number of financial aid pledges from various area businesses including W.R. Grace; that the exhibit area would have 17 to 18 exhibitors; that 22 to 23 thousand registration forms had been sent out and that a check for \$442.39 to the Sections Treasurer had been received from E.J. Quinn, the MARM Steering Committee's Treasurer. This amount was the Section's share of the disbursement of the 11th MARM's surplus funds.

With the cost of *The Chesapeake Chemist* continuing to rise, there were questions and discussions centered around whether or not the advertising should be continued and whether each issue should be limited to no more than eight pages or less. Eli Freedman is to get estimates on four and eight page editions so that actual costs to produce each issue could be considered again at the next meeting along with the cost of advertising etc. The yearly financial statement for *The Chesapeake Chemist* was distributed and showed that receipts for the year amounted to \$3,413.93 including a January 1, 1977 cash balance of \$667.03 while disbursements totaled \$3,224.29. The cash balance as of January 1, 1978 was \$189.64.

The Treasurer's Report for the period January 1 thru December 31, 1977 was submitted but was incomplete due to the absence of financial data on the operation of *The Chesapeake Chemist* at the time the report was compiled.

Jim Leslie advised that the Remsen Award Committee had been formed and would be meeting soon.

Under old business Eli Freedman objected to the proposed new by-laws from the standpoint that the titles of Chairman, Chairman Elect and Committee Chairman were sexist and should be changed. A motion was made, seconded and passed by a vote of 11 ayes, 3 nos and 1 abstention that the current generic terms of "Chairman" and "Chairman-Elect" be retained. Because of a question that arose over the Chairman succeeding himself it was moved and passed unanimously that the approval of the proposed new by-laws be suspended while they were referred back to the Ad Hoc By-Laws Committee for further consideration of this matter before the next Executive Committee meeting. Under new business, the Nominating Committee for the 1979 officers was started with the acceptance of the chairmanship by Tim Parr. Ernie Silversmith became the second of the five persons who make up the committee. The remaining members are to be recruited.

Chairman Jim Leslie indicated that there would be three additional Executive Committee Meetings and that unless notified otherwise they would take place on April 19th, September 20th and November 29th. As per agreement the starting time for the remaining meetings will be 7:30 pm instead of 8:15 pm as in the past.

The meeting adjourned at 11:00 pm.
Respectfully submitted,
Bob Schneider
Secretary

1978-1979 MARYLAND SECTION PROGRAM

DATE AND LOCATION OF MEETING	TOPIC	SPEAKERS AND AFFILIATIONS	TITLES OF TALKS
December 13, 1978 College of Notre Dame	MARYLAND AWARD WINNER	(To Be Announced)	
January 17, 1979 Eudowood Gardens	Health & Beauty	6:00 Alsoph H. Corwin The Johns Hopkins University 8:30 Monroe Lanzet Chanel, Inc.	Nutrition and Health Everything You Need to Know About Cosmetics But Were Afraid to Ask
February 14, 1979 College of Notre Dame	Information Science and Documentation	6:00 Bruno Vasta National Library of Medicine 8:30 Herman Skolnik Hercules, Inc.	Information Services for the Biomedical Sciences Chemical Information Science as a Discipline of Chemistry
March 28, 1979 U.S. Naval Academy		6:00 Dr. B. J. Luberoff <i>Chem Teach</i> 8:30 John Bailar University of Illinois	Innovation for Fun and Profit Some Researches on the Borderline of Organic and Inorganic Chemistry
April 25, 1979 Western Maryland College	Chemical Education	6:00 Walter Trafton Galludet College	Problem of Teaching Chemistry to the Hearing-Handicapped
May, 1979 The Johns Hopkins University	REMSEN AWARD	8:30 J. Arthur Campbell Harvey Mudd College (To Be Announced)	Surprises in the Teaching of Chemistry

PROBLEMS IN DEMOCRACY - ACS STYLE
OR NOT VISITING DISNEYLAND, COLLINS AVENUE, AND WAIKIKI.

Dear Constituent:

I'm sitting here contemplating a two-foot high stack of mailings from the National office much of which deals with my role as elected councillor for our local section. Contained in this fine stack of detailed announcements, minutes of meetings, etc., are the agendas for the last two Council Meetings which I have not been able to attend. I feel somewhat guilty about this and I thought that it might assuage my guilt if I put down my thoughts concerning a matter of some priorities.

First - money. It is expensive to attend ACS meetings especially if you are a councillor on a committee. The meetings often start on Saturday and run through until the Council meeting (where the voting on issues takes place) on Wednesday. That involves at least 4 nights and probably more considering the current run of meeting sites at places quite distant from centers of population, e.g., Hawaii and Miami. By the way, the sequence Orange County, Dade County and Hawaii is not exactly conducive to saving money either - three resorts in a row! Plus the fact that the ACS - unlike other organizations - has two meetings a year. Who is going to pay? Recent executive committee meetings show that we think that the local section must assume an increasing share of the financial burden. With the result that the support of 4 councillors twice a year will seriously deplete our funds. Should the money be spent on this or on other projects such as the Student Award Program I started this year? Which generates the most benefits?

Second - time. As I mentioned before each meeting requires about 5 days x 2 meetings equals 10 days of the year. It is hard to get permission to take this much time off. In my situation, classes must be covered and to do that requires my colleagues to assume my teaching responsibilities. Previously, at least one of the meetings was held in the late August - but no more. Now it's in September - right when the academic year is starting up.

Finally, to be an effective member of the ACS Council one must attend every meeting every day without fail or one will not be able to be appointed a full member of a committee and therefore be without much influence. It is very difficult for many people to do this. It necessitates quite a commitment from the councillor, his employer, and the local section to represent their members at ACS meetings.

Should our priorities be at the national level or the local level? I don't know if we can afford both.

C.E. Minnier
Councillor

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NOVEMBER MEETING

DATE:

Wednesday, November 15, 1978

PLACE:

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

SPEAKERS & TOPICS:

6:00 pm
Dr. Luigi G. Marzilli
The Johns Hopkins University
*NMR and Raman Spectroscopy in
Inorganic and Bioinorganic Chemistry*

8:30 pm
Dr. Dietmar Seyferth
Massachusetts Institute of Technology
*Hyper-Reactive Organosilicon Compounds:
Silacyclopropanes and Silacyclopropenes*

SOCIAL HOUR:

There will be a social hour
after the meeting. Refreshments
will be served.



Dr. DIETMAR SEYFERTH

COCKTAILS & DINNER:

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College of Notre Dame
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the talks; the talks may be
attended without going to the
dinner. You are invited to bring
your spouse and friends to both
the dinner and the meeting.



Dr. LUIGI G. MARZILLI

LUIGI G. MARZILLI

Luigi G. Marzilli was born in Providence, Rhode Island, in 1943. Upon receiving a B. Sc. degree (*magna cum laude*) from Brown University in 1965, he followed his mentor, Professor David A. Buckingham, to the Australian National University in Canberra where he was awarded the Ph.D. in chemistry in 1969. He spent a postdoctoral year at the University of Chicago with Professor Jack Halpern. In 1970 he came to The Johns Hopkins University where he is currently an associate professor. His interests include synthetic, spectroscopic, and mechanistic studies of transition metal compounds; the study of the interactions of metal species with biological molecules; and the chemistry of technetium radiopharmaceuticals. His studies in these areas are described in over seventy publications and are generously supported by the National Institutes of Health.

He is married to the former Patricia A. Selby, Ph.D. (Australian National University, 1969), a chemist who has worked on molybdenum enzymes. The Marzillis are the parents of three children.

Abstract of Dr. Marzilli's Talk

NMR and Raman Spectroscopy in Inorganic and Bio-Inorganic Chemistry

This talk will survey the use of spectroscopy (particularly NMR and Raman) in elucidating the structure and, in some cases, the electronic properties of metal complexes. In addition to illustrating the manner in which the formation and structure of metal complexes can be investigated, it will discuss some interesting case histories of incorrect interpretations of spectroscopic data in the literature. The talk will try to demonstrate how a total picture can emerge by combining various forms of NMR spectroscopy (relaxation agents, shift reagents, ^{13}C NMR) with Raman spectroscopy and by judiciously changing the properties of the metal center and the ligand. Examples will be drawn from our studies on metal ion interactions with nucleic acids and constituents and from our studies on cobaloxime and osmium compounds.

DIETMAR SEYFERTH

Dietmar Seyferth, currently professor of chemistry at the Massachusetts Institute of Technology, was born in Chemnitz, Germany on January 11, 1929. He is the son of Herbert C. Seyferth, a retired chemist, and Elisabeth Seyferth. He came to the United States in 1933 and is a U.S. citizen.

He obtained his B.A. degree in chemistry (*summa cum laude*) from the University of Buffalo in 1951 and advanced degrees (M.A., 1953; Ph.D., 1955) from Harvard University. His thesis research was carried out in the field of the organometallic chemistry of the Group IV elements under supervision of Professor Eugene G. Rochow. He was elected to membership in Phi Beta Kappa (1951) and Sigma Xi (1953) during the course of his studies.

During the academic year 1954-1955 he studied at the Inorganic Chemistry Institute (with Professor E.O. Fischer) of the Technische Hochschule in Munich as a Fulbright Scholar. From September 1955 to March 1956 he was employed as a research chemist at the Dow Corning Corporation in Midland, Michigan. He then returned to Harvard University to do postdoctoral work in the research group of Professor Rochow.

In July 1957 he was appointed instructor in the Department of Chemistry at the Massachusetts Institute of Technology; assistant professor in 1959; associate professor in 1962; Professor in 1965.

Dr. Seyferth's research interests reside broadly in the area of organometallics with long-term emphasis on the organic derivatives of the main group elements lithium, zinc, mercury, boron, silicon, germanium, tin and lead, as well as on certain aspects of organophosphorus chemistry. More recently, his research activities have diversified into transition metal-organic chemistry, in particular, the chemistry of organocobalt compounds. He has published about 300 research papers in these areas. He is Regional Editor for the United States, Canada and Japan of the *Journal of Organometallic Chemistry*, Coordinating Editor of the reviews section and Coeditor of the annual surveys section of this journal. He has edited a multivolume series of treatises on organometallic chemistry.

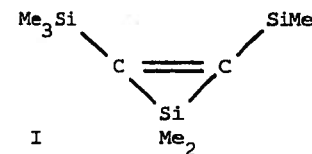
He was awarded two Fellowships of the Alfred P. Sloan Foundation in 1962 and 1964, and a Guggenheim Fellowship in 1968. He received a Distinguished Alumnus Award from the College of Arts and Sciences of the University of Buffalo in 1964. His research in the area of Group IV organometallic chemistry was recognized with the award of the Frederic Stanley Kipping Award in Organosilicon Chemistry of the American Chemical Society in 1972. In 1977 he was elected to membership in the Deutsche Akademie der Naturforscher Leopoldina, and in 1978 he was elected a Fellow of the American Association for the Advancement of Science. He is a member of the American Chemical Society and the Chemical Society (London).

Abstract of Dr. Seyferth's Talk

HYPER-REACTIVE ORGANOSILICON COMPOUNDS:

SILACYCLOPROPANES AND SILACYCLOPROPENES

Various silacyclopropanes, members of a long-sought class of organosilicon compounds, have been prepared by magnesium-induced coupling of appropriate bis (α -bromoalkyl) dimethylsilanes. The spectroscopic properties and the chemical reactivity of these highly reactive compounds will be discussed, with emphasis on the chemistry of hexamethylsilacyclopropane. Several silacyclopropenes, members of another rather elusive class of organosilicon compounds, have been prepared by Me_2Si addition to acetylenes. The chemistry of the most stable of these, I, will be discussed.



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Alfred Bloch
c/o Singer
6144 New Leaf Court
Columbia MD 21045

Herbert Loren Brod
U.S. Naval Academy
Chem. Dept.
Annapolis MD 21401

Deborah Ann Brungard
2905 N. Chas. St.
Baltimore MD 21218

John Wesley Calentine
8259 Camion Ct.
Pasadena MD 21122

James Lee Amigo Chan
416 Andover Ln.
Frederick MD 21701

Hardy J. Chou
9916 Richlyn Dr.
Perry Hall MD 21128

Frank E. Clarke
165 Williams Drive
Annapolis MD 21401

Terry D. Copeland
Fred. Cancer Res. Ctr.
POB B Bldg. 560 W2F2
Frederick MD 21701

David Lee Cosgrove
720 A Rosedale St.
Annapolis MD 21401

Susan Spicer Crosby
929 Stablersville Rd.
Parkton MD 21120

Chester M. Dacres
10469 Sternwheel Pl.
Columbia MD 21044

Paul J. Dagdigian
Chem. Dept.
Johns Hopkins Univ.
Baltimore MD 21218

Judith V. Davis
123 W. 4th Street
Frederick MD 21701

Thomas Jon Dols
4021 Jumpers Hill Ln.
Ellicott City MD 21043

Robert Henry Ounn
2055 Shore Dr.
Edgewater MD 21037

William C. Ehrhardt
5690 Stevens Forest Rd.
Apt. 12
Columbia MD 21045

Janet Marie Embrey
24 Dowling Cr.
Apt. T-2
Baltimore MD 21234

James Vernon Evans
Fred. Cancer Res. Ctr.
P.O. Box 8
Frederick MD 21701

Melvin Franklin Fine
410 Prindle Court
Bel Air MD 21014

Jerome Gavis
Dept. of Geol. and Envir.
Eng.

Johns Hopkins Univ.
Baltimore MD 21218

Christopher P. Gaylor
6969 SunFleck Row
Columbia MD 21043

Jeffery A. Gere
USAEHA
Aberdeen Proving Grd.
MD 21010

Raymond Michael Glennon
U.S. Naval Academy
Chem. Dept.
Annapolis MD 21402

Alfred C. Giovetti
1403 C1 Wentworth Ave.
Baltimore MD 21234

Michael Guarieri
1423 Bolton St.
Baltimore MD 21217

Judith W. Hauswirth
6915 Bonnie Ridge Rd.
Baltimore MD 21209

Phillip Ferdinand Heller
4820 Hamilton Ave.
Baltimore MD 21206

Rex Paul Hjelm, Jr.
Dept. of Biophysics
Johns Hopkins Univ.
Baltimore MD 21218

Walter M. Holloway, Jr.
12 Airway Circle, Apt. 3D
Towson MD 21204

Elizabeth A. Hornak
2905 W. Charles St.
Box 110
Baltimore MD 21218

Barry Jason Hostetter
1850 Old Taneytown Road
Westminster MD 21157

Kathryn Huff
1325 Chapelview
Odenton MD 21113

Indrakumar L. Jashnani
Martin Marietta Corp.
1450 S. Rolling Rd.
Baltimore MD 21227

Ihor Stephen Jaworinsky
4619 Furley Ave.
Baltimore MD 21206

Sandra L. Johnson
1400 Coventry Ct.
Bel Air MD 21014

Arthur Donald Ketley
5723 Harpers Farm Rd.
Ellicott City MD 21043

Alfred Vincent Kramer
7017 Charles Ridge Road
Baltimore MD 21204

George Israel Lavin
6810 Park Heights Ave.
Baltimore MD 21215

John C. Leak
1439 Chesapeake Ave.
Rte. 7
Annapolis MD 21403

Che Hung Robert Lee
c/o N. Gluck
1130 Cove Rd.
Annapolis MD 21403

Alexander Markon
6603 Linco Ave.
Baltimore MD 21209

Stephen Richard Max
UMAB
Sch. of Med.
Baltimore MD 21201

David Lawrence Merricks
Route 4 Box 35
Old Annapolis Rd.
Mount Airy MD 21771

Keith Arthur Millard
2034 Greylock Ct.
Bel Air MD 21014

John Patrick Montgomery
Box 117A Rte. 2
Myersville MD 21773

Linda Anne Moore
Chem. Dept.
Towson State University
Towson MD 21204

John Mark Nocerino
Chem. Dept.
Johns Hopkins Univ.
Baltimore MD 21218

Robert John O'Melia
5 Skidmore Ct.
Towson MD 21204

Yuki Oshiro
9 Chapel Pl.
Walkersville MD 21793

Nicholas A. DePalo, Jr.
7503 Apt. F Tomahawk Ct.
Baltimore MD 21237

Ramesh C. Pandey
Fred. Cancer Res. Ctr.
POB B
Frederick MD 21701

Kenneth Parsons
Beachview Ave.
Hacks Point
Earleville MD 21919

Anna Peng
11116 Waverly Dr.
Frederick MD 21701

Carmen Bautista Pili
421 Harwood Rd.
Annapolis MD 21401

Benjamin Lawson Poehland
9 Fulton Ave.
Walkersville MD 21793

Charles K. Ricketts
7305C Fournier Street
Ft. Meade MD 20755

Dexter H. Rivers
3156 D West Spring Dr.
Ellicott City MD 21043

James F. Savoy
8923 Tamar Drive
Columbia MD 21045

John Calvin Schmidt
2719-C Cold Stream Way
Baltimore MD 21234

Carl Scott Schulten
454 Old Quarterfield Rd.
Glen Burnie MD 21061

Dale Irving Scoggin
270B Thyme Dr.
Edgewater MD 21037

Louise Marie Schudlen
6 Sugar Loaf Ct.
Baltimore MD 21209

Robert Ford Searles
506 Meadowood Dr.
Edgewood MD 21040

David Alan Shifler
102 Potomac St.
Boonsboro MD 21713

John K. Shuler
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Charles & Chase Streets
Baltimore MD 21201

Srinivasa Sridharan
Dept. of Chemistry
UMBC
Baltimore MD 21228

Antoine H. Srouji
O'Neil Laboratory
Good Samaritan Hospital
Baltimore MD 21239

Kristin Ann Summers
2430 Chetwood Circle
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MD 21093

A. Earl Vivino
Rt. 2 Box 455
Frederick MD 21701

K. Ming Wan
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