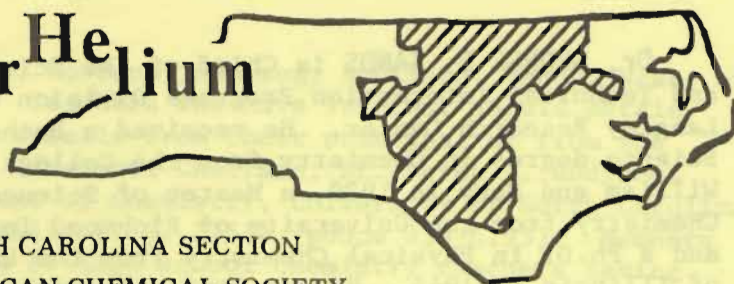


# Tar Helium



NORTH CAROLINA SECTION  
AMERICAN CHEMICAL SOCIETY

Vol. 9, No. 5

Raleigh, N.C.

January 1979

## SCIENTIFIC RESULTS FROM THE VIKING MISSION TO MARS

- Speaker: Dr. George D. Sands  
Langley Research Center - NASA
- Date: Tuesday, January 23, 1979
- Place: University of North Carolina  
Chapel Hill, North Carolina
- Time: 5:30 Happy Hour  
Tiffany Room, Holiday Inn  
15-501 Bypass at Eastgate
- 6:30 \*Dinner  
Holiday Inn - (\$7.00 - full  
members; \$3.50 - student members)
- 8:00 Lecture  
207 Venable Hall  
UNC-CH

\* Please make reservations by Friday, January 19, 1979. Call Sue Hester at 966-1566 in Chapel Hill, Terry Laing at 684-2414 in Durham or Linda Hill at 737-2548 in Raleigh.

Dr. GEORGE D. SANDS is Chief of the Scientific and Technical Information Programs Division of NASA's Langley Research Center. He received a Bachelor of Science degree in Chemistry from the College of William and Mary in 1939, a Master of Science in Chemistry from the University of Richmond in 1941, and a Ph.D. in Physical Chemistry from the University of Illinois in 1945. He was Senior Research Chemist in the Physical and Chemical Research Laboratory of the Firestone Tire and Rubber Company, Akron, Ohio, and was an Associate Professor of Chemistry at the College of William and Mary before joining the Langley staff in 1962.

\* \* \*

Scientific results are reported from more than two years of observation by the two Viking landers on the surface of Mars. The wide variety of geological phenomena which have altered the planet are illustrated by selected high resolution color photographs taken on the surface and from orbit. Results from the thirteen Viking science investigations show Mars as a dynamic planet, the study of which is providing a better understanding of our own Earth by using the principles of comparative planetology. Included are findings from the investigations dealing with life detection, chemical analysis of the surface and the atmosphere, meteorology, and seismology.

#### HIGH SCHOOL CHEMISTRY TEACHERS AWARD

Letters have been sent to the principals of all high schools within the Section announcing the 1979 High School Chemistry Teacher's Award. The award is a grant of up to \$400 for tuition and fees for any course or courses in the chemical sciences. Eligible candidates must teach within the Section which includes the following counties: Bladen, Caswell, Chatham, Cumberland, Durham, Edgecomb, Franklin, Granville, Halifax, Harnett, Hoke, Johnston, Lee, Martin, Moore, Nash, Northampton, Orange, Person,

Randolph, Robeson, Sampson, Scotland, Vance, Wake, and Warren. Teachers who have interest should obtain further details from their principal or from the Award's Committee Chairman, Dr. Derek J. Hodgson, Department of Chemistry, University of North Carolina, Chapel Hill, N. C. 27514 (phone 933-6195). Members who know of high school chemistry teachers having interest should please bring this award announcement to their attention.

### ELECTION RESULTS

#### CHAIRMAN-ELECT:

Forrest W. Getzen	68
SALLY M. HORNER	92

#### TREASURER:

ARTHUR DIESING	81
Robert A. Izydore	76

#### COUNCILOR:

MAURICE BURSEY	103
Richard J. Thompson	55

#### ALTERNATE COUNCILOR:

William Gutknecht	74
COLIN PITT	84

### FUTURE SECTION MEETINGS

February 13	Dr. James Potts, Burroughs-Wellcome
March 20	Representative from Kodak, Duke
April 17	Dr. Rod O'Connor, NCSU

## CENTENNIAL SCHOLARSHIP AWARD

The North Carolina Section of the ACS announces its fourth annual CENTENNIAL SCHOLARSHIP AWARD for the Summer of 1979. It carries a stipend of \$1000 (tax free).

## Eligibility Requirements:

- (1) Membership or Associate Membership in the American Chemical Society.
- (2) Attendance at a Graduate or Professional School within the geographic boundaries of the North Carolina Section of the ACS.
- (3) Successful completion of at least one year of graduate or professional study toward an advanced degree by the end of the academic year.
- (4) Must have no other obligations for which income is earned during the tenure of the scholarship.

DEADLINE FOR RECEIPT OF APPLICATION IS MARCH 1, 1979.

## Send Application to:

Dr. Keith Lawson  
P. O. Box 12274  
Research Triangle Park, N.C. 27709

## Application must be accompanied with:

- (1) One copy of each of undergraduate and graduate (or professional school) transcripts (listing of courses and grades will be acceptable).
- (2) Two letters of recommendation: One from research director and one from another graduate professor.
- (3) No more than a 1000 word written summary by the applicant of their research project, which must be in a chemically related area.

- (4) An outline of the portion of the work planned for the period of the award (Summer 1979).

The Scholarship will be awarded on the basis of excellence of academic record, superior performance as a teaching assistant (where applicable), and promise in research and quality of application. It will be given *primarily* on the basis of past performance, rather than the quality of the actual research proposed. The award is not subject to renewal. The Scholarship will be awarded at the Meeting-in-Miniature on April 17, 1979. The recipient is expected to give a 5-minute presentation on this work at one of the fall meetings of the Section.

#### FEEDBACK

Clip and mail your suggestions on ACS programs, short courses, the TarHelium, etc.

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## AREA SEMINARS

- Jan. 9 Dr. PETER C. JURIS, Pennsylvania State University, "Computer Assisted Studies of Molecular Structure and Biological Function," 9:00 a.m., Auditorium Burroughs-Wellcome.
- 17 Dr. A. J. BLOODWORTH, University College-London, "Mercury in Cyclic Peroxide Synthesis," 3:30 p.m., Room 130 Gross Chemical Laboratory, Duke.
- 22 Dr. GARY M. HIEFJE, Indiana University, "Taking Advantage of Noise in Laser Spectroscopy," 4:00 p.m., Room 124 Dabney Hall, NCSU.
- 23 Dr. ROY A. JOHNSON, Upjohn, "Title to be announced," 3:30 p.m., Room 130 Gross Chemical Laboratory, Duke.
- 23 Dr. GEORGE D. SANDS, Langley Research Center-NASA, "Scientific Results from the Viking Mission to Mars," ACS Lecture, 8:00 p.m., Room 207 Venable Hall, UNC-CH.
- 24 Dr. CHARLES G. OVERBERGER, The University of Michigan, "The Reactions of Polymers in Solution - Hydrophobic Factors," Venable Lecture, 8:00 p.m. Room 207, Venable Hall, UNC-CH.
- Feb. 5 Dr. ROBERT LICHTER, Hunter College, City University of New York, "Potential Applications of Natural Abundance  $^{15}\text{N}$  NMR for Organic Structural Characterizations," 4:00 p.m., Room 124 Dabney Hall, NCSU.

Stamp

Dr. Eric Wiechert, Chairman  
NC/ACS  
107 Atkinson Street  
Garner, North Carolina 27529

## BUDGET

Income

ACS Allotment	\$ 4,400	
New Members	150	
Savings Interest	500	
Short Courses	3,000	

Total Income 8,050

Expenses

<u>Awards</u>		
Centennial Scholarship	1,000	
High School Students	100	
High School Teacher	400	1,500
<u>Donations</u>		
Polymer group	100	
N. C. Academy	100	200
<u>Short Courses</u>		
Honoraria	1,000	
Classroom aids	100	
Printing	75	
C.E. Certificates	25	1,200
<u>Meetings</u>		
Honoraria	525	
Travel and Expenses	1,000	
Student dinners/Social hours	1,000	
Meeting-in-Miniature	200	2,725
Tarhelium	1,600	1,600
<u>Administrative</u>		
Travel	400	
Miscellaneous	200	600
Contingency	225	225

Total Expenses 8,050

## POLYMER GROUP MEETING

The Polymer group meets at the NCSU Faculty Club on Thursday, January 25. Social Hour starts at 5:30 pm with dinner at 6:30 pm and lecture at 7:30 pm. Dr. WILLIAM J. KOROS of the NCSU Chemical Engineering Department will speak on "Dual Mode Sorption of Gases in Polymers." Contact Dr. Larry Bowen, Chemistry Department, NCSU, Raleigh, N.C. 27650 for reservations.

*EXECUTIVE COMMITTEE*

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