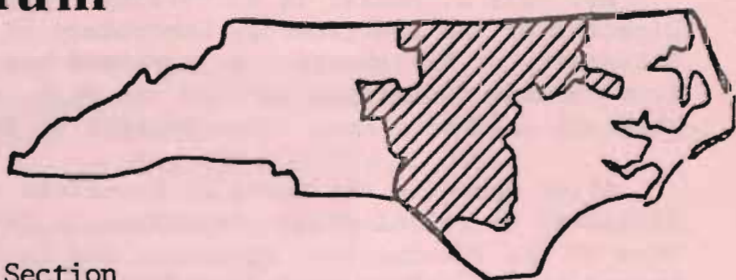


Tar^{He}lium



North Carolina Section
AMERICAN CHEMICAL SOCIETY

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October, 1974

"RAMAN SPECTROSCOPY IN A NEW LIGHT"

Speaker: FOIL A. MILLER
University of Pittsburgh
Pittsburgh, Pennsylvania

Date: Tuesday, October 8, 1974

Place: Chapel Hill, North Carolina

Time: 5:45 Happy Hour
Carolina Inn

6:30 Dinner (Cornish Hen, \$5.50)
Carolina Inn

8:00 Lecture
UNC-CH, Room 207 Venable

Dr. Foil A. Miller is University Professor and Director of the Spectroscopy Laboratory of the University of Pittsburgh. He received his B.S. from Hamline University in 1937 and Ph.D. in physical chemistry from Johns Hopkins in 1942.

After spending six years at Minnesota and Illinois, he joined Mellon Institute in 1948 as head of the Spectroscopy Division, and in 1958 became Senior Fellow in Independent Research. In 1967 he assumed his present post at Pitt.

Dr. Miller's research interests in molecular spectroscopy have resulted in more than 80 publications and many honors and awards. He has also been active in the Pittsburgh section of the ACS in many capacities, including chairman, councilor and director.

"Raman Spectroscopy in a New Light"

by Foil A. Miller

It is now easier to obtain Raman spectra of liquids and solids than infrared spectra. This astounding situation is the result of the use of lasers, which has led to a tremendous resurgence of work in Raman spectroscopy. After briefly reviewing the reasons for this, a number of interesting results from the speaker's laboratory will be described. They will be taken from work on some of the following molecules, and will illustrate various applications of the technique:

$N(SiH_3)_3$; $Si(NCO)_4$; 3- and 4-radialene;

cyclopropenone; B_4Cl_4 and cyclobutane.

LOCAL SEMINARS

- Oct. 2 "Aspects of Organic Mass Spectrometry",
F. W. McLafferty, Cornell; 207
Venable (UNC-CH), 8:00 p.m.
- Oct. 4 Henrich Noeth, U. of Munich;
103 Gross (Duke), 3:30 p.m.
- Oct. 7 "The Chemistry of Fluorosulfonyl Isocyanate",
R. E. Noftle, Wake Forest; 124 Dabney
(NCSU), 4:10 p.m.
- Oct. 11 David S. Breslow, Hercules, Inc.,
103 Gross (Duke), 3:30 p.m.
- Oct. 14 "Fluorine Substituent Effects", B. E.
Smart, Du Pont; 124 Dabney (NCSU), 4:10 p.m.
- Oct. 16 "Signal Handling in Microorganisms: A
New Chapter in Molecular Biology". M.
Delbruck, Cal. Tech; 207 Venable (UNC-CH),
8:00 p.m.
- Oct. 21 "Clinical Applications of the Carbonate
Ion-Selective Electrode", H. B. Herman,
UNC-G; 124 Dabney (NCSU), 4:10 p.m.
- Oct. 23 Southeastern Regional ACS Meeting,
25 Norfolk, Va. See C&EN, Sept. 9
issue for details
- Nov. 1 Edward G. Janzen, Georgia;
103 Gross (Duke), 3:30 p.m.
- Nov. 4 "Methylenes, Foiled and Otherwise",
R. S. Pyron, Furman; 124 Dabney
(NCSU), 4:10 p.m.
- Nov. 13 NEXT LOCAL ACS MEETING

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