

Vivian Thomas Stannett was born in England in 1917. He received the B.Sc. degree in Chemistry from The Polytechnic, London, in 1939, and worked in the British War Department and in industry before coming to this country as a graduate student in 1947.

He received the Ph.D. degree in physical chemistry from the Polytechnic Institute of Brooklyn in April, 1950. After working for a period in industry and at the Mellon Institute, Dr. Stannett joined the Chemistry Department, State University of New York, College of Forestry in Syracuse in 1952.

In 1961 Dr. Stannett left Syracuse to become Associate Director of the Camille Dreyfus Laboratory, Research Triangle Institute. He joined the Chemical Engineering Department at North Carolina State University in 1967, where he is now Camille Dreyfus Professor. His main research interests have been in the radiation chemistry of polymers, block and graft copolymers and the transport of small molecules in polymers. Dr. Stannett has received a number of honors and awards for his work, including, in 1974, both the Borden Gold Medal for polymer chemistry and the Anselme Payen Award for cellulose chemistry from the American Chemical Society. He was appointed Vice Provost and Dean of the Graduate School at North Carolina State University on July 1st, 1975; however, he will continue to hold his Professorship and continue his research work in chemical engineering.

"THE POLYMERIZATION OF VINYL MONOMERS BY STABLE CARBENIUM IONS"

Studies in the chemistry of carbenium ion polymerization have been almost entirely concerned with ion pairs. Recently, however, it has been shown that polymerization by free carbenium ions can be brought about both by high energy

radiation and by the use of stable carbenium ion salts in high dielectric constant solvents. A comparison of the results obtained by these two methods, including a measure of the absolute rate constants for propagation for a number of vinyl ethers will be presented.

New work, using these pseudo-living systems to synthesize novel block polymers will also be described.

SHORT COURSE ON INTRODUCTORY MASS SPECTROMETRY

The North Carolina Section of the American Chemical Society will sponsor a short course on Introductory Mass Spectrometry beginning October 2, 1975. Information regarding this course is given on the two center pages of this newsletter. Dr. Maurice M. Bursey and Dr. Joan T. Bursey, who will be the principal lecturers, are widely published in this field. They will be joined by Dr. T. Michael Harvey from the University of Virginia, who is a guest lecturer at RTI for 1975. Dr. Harvey along with Donald Hunt have been quite innovative in research in chemical ionization mass spectrometry including the development of several new reagent gases and the fabrication of a Townsend discharge ionization source which has resulted in the rapid development of negative ion chemical ionization.

Note that the cost is \$25.00 payable to the North Carolina Section of the ACS. This does not include the cost of the text which is \$7.50. A minimum of ten students is necessary for the course to be given. Maurice's and Joan's fee for the course will be either a \$400 honorarium or the registration fees collected for the course, whichever is less.

INTRODUCTORY MASS SPECTROMETRY

The North Carolina Section of the American Chemical Society is pleased to sponsor a non-credit short course in Introductory Mass Spectrometry for all interested scientists in the Research Triangle area.

DATES: Thursdays, October 2 to December 11, 1975 (except Thanksgiving)

TIME: 5:15 to 6:15 p.m.

LOCATION: Conference Room, North Carolina Science and Technology Research Center (NC/STRC), corner of Davis Drive and Cornwallis Road, Research Triangle Park, N.C.

PREREQUISITE: A bachelor's degree in chemistry

INSTRUCTORS: Principal lecturers:

Dr. Maurice M. Bursey, Professor of Chemistry
The University of North Carolina at Chapel Hill, Chapel Hill, N.C.

Dr. Joan T. Bursey, Chemist, Research Triangle Institute,
Research Triangle Park, N.C.

Guest lecturer:

Dr. T. Michael Harvey, Research Associate, Research Triangle
Institute, Research Triangle Park, N.C.

Jointly and separately, Maurice and Joan have published over 120 papers on mass spectrometry. Their careers in this field date from a post-doctoral appointment with F.W. McLafferty at Purdue from 1964 to 1966 for Maurice, and doctoral research under A.C. Burlingame at the University of California, Berkley for Joan. Mike, a recent Ph.D. from D.F. Hunt's group at the University of Virginia, has done innovative research in chemical ionization mass spectrometry.

TEXT: F.W. McLafferty, Interpretation of Mass Spectra, Second Edition, W.A. Benjamin, Reading, Massachusetts, 1973, \$7.50 (paperback). We will order you a copy if you request it when registering.

COURSE DESCRIPTION: The first seven lectures will be based on McLafferty's text; the last three will deal with newer ionization techniques used in studying unstable molecules, especially those of biological importance. Ten students are necessary for the course to be given.

FEE: \$25.00 (not including text)

Enclosed is a check for \$25.00 (payable to the North Carolina Section, American Chemical Society) as registration fee for Introductory Mass Spectrometry

Please order me a copy of the text.

NAME _____ HIGHEST DEGREE _____
BUSINESS ADDRESS _____
TELEPHONE _____

SEND TO: Dr. Suzanne T. Purrington, Secretary-Treasurer
North Carolina Section, ACS
Route 8, Box 205, Raleigh, N.C. 27612

INDUSTRIAL WORLD OF YOUNGER CHEMISTS

Both undergraduate and graduate students are urged to attend the panel discussions to be held September 18-20 on three different campuses in the triangle area. These panel discussions will center on the theme of the academic/industrial interface, i.e., how does one make the transition from the academic environment to the industrial job situation. These discussions will essentially be repeated on the following dates and campuses- the afternoon of September 18 at UNC-Chapel Hill; the afternoon of September 19 at NCSU; and the morning of September 20 at Duke.

Even if you are a student at a college or university other than UNC, NCSU or Duke you are still invited to attend these sessions.

ACS EXECUTIVE COMMITTEE MEETING

At their July meeting the executive committee of the North Carolina Section of the American Chemical Society voted to set up a fund of \$250 for 1975 for the travel expenses of the legislative counselors of this section. The counselors must notify the committee of their plans to visit their respective legislature in advance of the visit and can receive only a maximum of \$50 per visit from this fund. The payments from the fund will be made on a first come basis and will cease when the fund is exhausted.

EDITOR'S NOTES

"Welcome back" as we begin our regular schedule of meetings of the North Carolina Section of the American Chemical Society for the fall-spring 1975-76. We look forward to seeing you throughout the coming year.

Once again you are reminded that if you have pertinent information you want to share with the members of our section such as notices of local short courses, seminars, job openings, etc. contact the editor about three weeks prior to the next meeting of the section to assure that the announcement is in the next issue of the newsletter. For seminars please furnish the date, time, place, speaker's name, and, if possible, the title of the seminar.

DINNER AT HALF THE PRICE!

As part of a continuing effort to stimulate further interest in the ACS among student affiliates and student members the executive committee has decided to invite the student affiliates and student members of this section to share in the dinner portion of our monthly meetings. Their cost for the dinner will be only half of the cost for those who are regular members of the section. However, this offer is restricted to student affiliates and student members. Futhermore, it is requested that those who plan to have dinner notify the appropriate hospitality chairman in advance. The hospitality chairmen are: Derick Hodgson at UCH-Chapel Hill, Bill Gutknecht at Duke and Keith DeArmond at NCSU.

NEXT LOCAL ACS MEETING

The next local ACS meeting will be on Wednesday October 15 and the Speaker will be Mary Good from the University of New Orleans.

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TARHELIUM is published by the North Carolina Section of the American Chemical Society. The views expressed herein are not necessarily those of the Section. Direct all correspondence to Dr. Eric Wiechert, Editor, c/o Chemistry Department, Meredith College, Raleigh, N. C. 27611

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