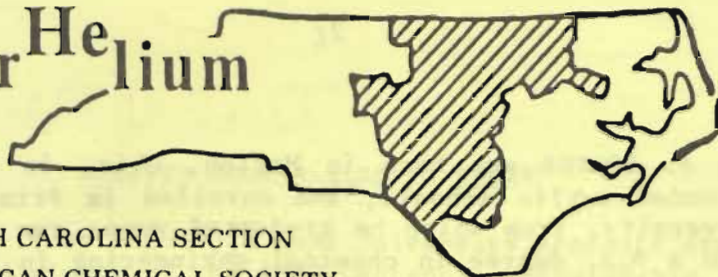


Tar Helium



NORTH CAROLINA SECTION  
AMERICAN CHEMICAL SOCIETY

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Vol. 14, No. 4

December, 1983

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The North Carolina  
Distinguished Chemist Lecture Series

Presents

MECHANISMS FOR DEGRADATION OF ORGANIC COMPOUNDS  
OF BIOLOGICAL IMPORTANCE

by

Dr. Ned A. Porter  
Professor of Chemistry  
Duke University

Tuesday, December 13, 1983

Holiday "Social": 5:30 pm, NCSU Faculty Club

Holiday Dinner: 6:45 pm, President's Dining Room,  
Belk Hall, Meredith College  
(\$9.00 full member, \$4.50 for  
students)

Lecture: 8:00 pm, Cate Center  
Meredith College

For reservations, please call one of the following by  
December 7: In Durham, Ms. Nancy Kearns at 684-3010;  
in Chapel Hill, Ms. Helen Heriford at 962-4403; and in  
Raleigh, Ms. Tana Taylor at 737-2548.

NED A. PORTER was born in Marion, Ohio, in 1943, attended public schools, and enrolled in Princeton University, from which he graduated summa cum laude with a B.S. degree in chemical engineering in 1965. He earned his Ph.D. in organic chemistry at Harvard University. During this period he studied spin correlation effects of 1,4-biradicals. In 1969 he was appointed Assistant Professor at Duke University and was promoted through the ranks to his present position of full Professor. He has been a National Institutes of Health Research Career Development Awardee. He currently serves on the editorial board of the Journal of Organic Chemistry and served on numerous NIH panels. He has been a visiting professor at the University of Nijmegen in the Netherlands. His current research interests are in the reactions of molecular oxygen with organic substrates, particularly lipids, and in free radical reactions in organized assemblies, such as lipid bilayers, inverted micelles, and microemulsions.

MECHANISMS FOR DEGRADATION OF ORGANIC COMPOUNDS  
OF BIOLOGICAL IMPORTANCE

Abstract

The uncontrolled reaction of organic compounds with molecular oxygen, lipid peroxidation, is thought to be an important process in a variety of disease states as diverse as asthma, cancer, and heart disease. The mechanism of lipid peroxidation and its relationship to enzymatic conversions utilizing molecular oxygen as substrate have been the focus of research in our laboratories in the past ten years and simple mechanistic models of lipid peroxidation will be described.

## JEFFRY HUGHES ALSO TO SPEAK

Mr. Jeffrey Hughes, a Duke University graduate student and winner of the 1983 Centennial Scholarship, will present a report on the research supported by the scholarship at the December meeting. The report is entitled, "An Approach to the Synthesis of Ouadrone."

## ELECTION RESULTS

The 1983 election results are in and are presented below. Congratulations to the winners. It is unfortunate that not all could win; for each nominee, according to the nominations committee, has served the section extremely well.

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## ANNOUNCEMENT

Dr. Todd Craig of Union Carbide Agricultural Products, Research Triangle Park, has been appointed chairman of the Education Committee.

## NEW BENEFITS FOR ACS MEMBERS

## New Extended Hospital Indemnity Program

The Board of Insurance Trustees recently approved a new extended hospital indemnity (cash) plan. The plan is available, regardless of health, to all ACS members under age 65, spouses, and dependent children. The maximum benefit is \$200 per day while hospitalized (\$100 for participants age 65 and over) and is payable (regardless of any other insurance one may have) from the first day of hospitalization. This plan is separate from the ACS life insurance plan. The plan is underwritten and administered by Connecticut General Life Insurance Company.

For a copy of the brochure/application, please contact Ms. Fillinich in the ACS insurance office at (202) 452-8911.

## Deferral of Life Insurance Premium

The Board of Trustees, Group Insurance Plans for ACS Members has recently approved a program of deferral of premium payments for participants in the ACS life plan who are unemployed and receiving deferral of ACS dues. The rules of eligibility for this new program will be the same as the ACS plan for dues deferral of unemployed members.

If you wish further information, please write to Ms. D. Fillinich, ACS insurance office at the National Headquarters.

## JANUARY MEETING

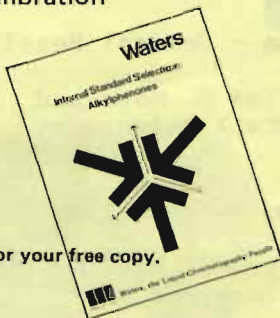
Location: Fayetteville State University

Speaker and topic to be announced.

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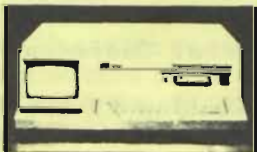
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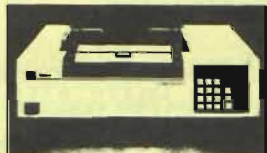
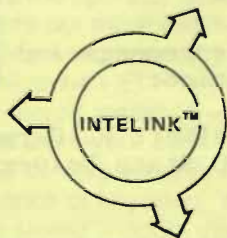


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