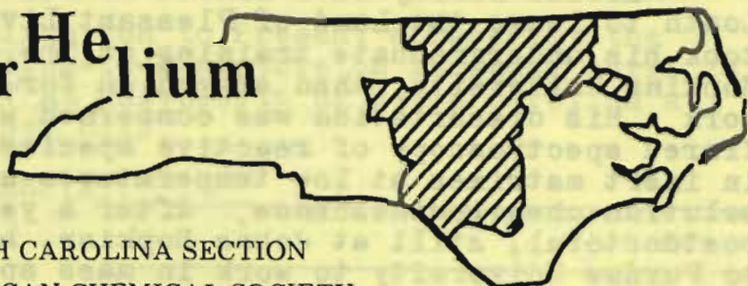


Tar^{He}lium



NORTH CAROLINA SECTION
AMERICAN CHEMICAL SOCIETY

Vol. 7, No. 7 Raleigh, N.C. March, 1977

MEETING-IN-MINIATURE - CALL FOR PAPERS
APPLICATION AND DETAILS INSIDE

"ION SORCERERS: THE BEGINNINGS
OF MASS SPECTROMETRY"

- Speaker: Dr. Maurice Bursey
 University of North Carolina
- Date: Tuesday, March 22, 1977
- Place: North Carolina State University
 Faculty Club (at intersection of
 the beltline and Hillsborough St.)
- * Time: 5:30 Happy Hour
 NCSU Faculty Club
- 6:30 Dinner (chicken and ham, \$5.50)
 NCSU Faculty Club
- 7:30 Lecture
 NCSU Faculty Club

* If you plan to attend the dinner, please make a reservation by March 15 by contacting either- William Gutknecht (Duke) 684-2409 William Switzer at 737-2945 or 737-2545 (NCSU) Derek Hodgson (UNC-CH) 933-6195.

Maurice Bursey is a native of Baltimore. Loath to leave the Land of Pleasant Living, he took his undergraduate training at The Johns Hopkins University, then stayed on for graduate work. His dissertation was concerned with infrared spectroscopy of reactive species trapped in inert matrixes at low temperatures and with solution chemiluminescence. After a year's postdoctoral, still at Johns Hopkins, he went to Purdue University to work in mass spectrometry with F. W. McLafferty, who was just leaving the Dow Chemical Company to join academe. After two winters in Indiana, he joined the faculty at the University of North Carolina at Chapel Hill, where he thought himself safe from wretched winter weather until this year. He is now Professor of Chemistry, and has published over 120 research articles, including a recent text on ion cyclotron resonance with Thomas A. Lehman. His special research interests are in ion cyclotron resonance spectrometry, field desorption mass spectrometry, and the chemistry of ion-molecule reactions in the gas phase; in many circles he is known as the husband of one of the country's major experts in the application of gas chromatography/mass spectrometry to environmental problems, Joan Bursey of the Research Triangle Institute. He has been a fellow of the Alfred P. Sloan Foundation and a winner of the University of North Carolina's Tanner Award for excellence in teaching of undergraduate students. In 1975 he was chairman of the North Carolina Section of the American Chemical Society.

When he is not thinking about gaseous ions, he busies himself with adding to his collection of rhododendrons, with the conduct of the Post Office in North Carolina during the Civil War, with chasing, breeding and raising Brittany spaniels, and the restoration of

(cont'd on p. 4)

Application to Present a Paper at the
Meeting-in-Miniature on Thursday April 28,
1977 at University of North Carolina at
Chapel Hill.

Author(s): _____

Position(s): _____

Institution: _____

Title of Paper: _____

Underline most appropriate section: analytical,
biochemical, chemical education, inorganic,
organic, physical, polymer.

To be presented by*: _____

Time needed (15 minute maximum) _____

Type of projector needed (if any) _____

NOTE: Application must be received by March 25,
1977.

*If one of the authors is a student, it is urged
that the student be allowed to present the paper.

Mail to: Dr. Richard Palmer
Department of Chemistry
Duke University
Durham, N. C. 27706

(cont'd from p. 2)

damaged marble objets d'art. As a result of abstracting work in several Romance, Germanic and Slavic languages for Nuclear Science Abstracts for a number of years, he is also reasonably confident that he is the mass spectrometrist with the best command of scientific Rumanian in Orange County.

"ION SORCERERS: THE BEGINNINGS OF MASS SPECTROMETRY"

Mass spectrometry is now virtually an indispensable tool for synthetic and mechanistic chemists. Elaborate instruments capable of handling even extremely unlikely samples from materials science and from biomedical programs now exist, and the range of applications in industrial laboratories is remarkable. In an age where instrumentation can be so complex as to cost nearly half a million dollars, it is interesting to look back, to examine the first experiments which gave indications of gaseous positive ions, and to trace the development of this technique through its first years. There are many humbling surprises: some concepts which we might consider recent were in fact voiced fifty years ago, when mass spectrometers were curiosities in the physics departments of a very few universities. Of course this prescience was balanced by some wildly wrong predictions. The legendary Francis W. Aston remarked shortly before his death in 1945 that mass spectrometry had developed so fast in his

lifetime that there was nothing left to do. Fortunately, he didn't get his Nobel Prize for predictions.

MEETING-IN-MINIATURE - CALL FOR PAPERS

This year the annual Meeting-in-Miniature of the North Carolina Section of the ACS will take place at the University of North Carolina at Chapel Hill. The date is Thursday, April 28, 1977. The Plenary lecturer will be Professor Paul D. Bartlett of Texas Christian University.

An invitation is extended to all members of the Section to present a paper at the Meeting-in-Miniature. An application to present a paper is given on page three of this issue of TARHELIUM. Let's make this Meeting-in-Miniature even bigger than last year's!! Remember- the deadline for application is March 25.

A complete program of the Meeting-in-Miniature will be included in the April issue of TARHELIUM.

HILL MEMORIAL LECTURE AT DUKE

The annual Douglas G. Hill Memorial lecture will be presented on March 30, 1977 by Dr. Walter Kauzmann. Dr. Kauzmann is Professor of Chemistry at Princeton. He has chosen "The Structure of Water and Its Interaction with Proteins" as his topic. The lecture will be at 8:00 pm in Room 107 of the Paul M. Gross Chemical Laboratory.

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