THE EIGHTY-EIGHTH YEAR OF THE TENNESSEE ACADEMY OF SCIENCE
NOVEMBER 16-17, 1978
LAMBUTH COLLEGE, JACKSON

The annual meeting of the Tennessee Academy of Science, Inc., in its eighty-eighth year, was held November 16-17, 1978, at Lambuth College, Jackson, Tennessee. Dr. James G. Beasley, Professor of Chemistry at Lambuth, was chairman of the Local Arrangements Committee, and Dr. James D. Caponetti, Professor of Botany at the University of Tennessee, Knoxville, was Program Chairman.

Meeting registrations totaled 208. Of these, 76 were university-college professors, 3 from State Divisions, 1 from the Oak Ridge National Laboratory, 2 from private industry, 99 college students, and 27 others.

A total of eight laboratory supply and optical companies and affiliates exhibited their products in the first floor lobby of the Hyde Science Hall in alphabetical order, they were: ACTS Instruments, Inc.; Carolina Biological Supply Co.; Frany Carryl Company; R. L. Dotts Instruments Co.; Preiser Scientific, Inc.; Sargent-Welch Scientific Co.; Southern Biological Supply Co.; and Ward’s Natural Science Establishment, Inc.

The General Session was held in the Colonial Room of the College Union on Friday morning, November 17, beginning at 10:00 a.m. C.S.T. The Chairman of the Local Arrangements, Dr. James G. Beasley, chaired the session, and the welcome was given by Dr. James S. Wilder, Jr., President of Lambuth College, Jackson, Tennessee. The theme of the session was “Environmental Toxins.” Section meetings were held Friday afternoon; 95 papers were presented as listed in the program. The Annual Business Meeting was held in Room H215 of Hyde Science Hall at 5:00 p.m. C.S.T.

The Annual Banquet was held in the Colonial Room of the College Union. It was served buffet style beginning at 7:00 p.m. C.S.T. Friday evening. Banquet ticket sales were 75. President Robert E. Martin presided, and the address was delivered by Dr. Walter G. Rosen, plant physiologist, Office of Toxic Substances, Environmental Protection Agency, Washington, D. C. The address was “Environmental Toxicology and the Toxic Substances Control Act.”

The Collegiate Division held its meeting on Saturday morning at 9:00 a.m. C.S.T. in Room H215 of Hyde Science Hall. Dr. Richard J. Raridon, Director of the Collegiate Division, presided and 8 papers were presented by college students.
TENNESSEE ACADEMY OF SCIENCE

NEW MEMBERS—1978

Mark L. Allen
1248 Sluiter Road
Madiotton, TN 37115

William H. Atkinson
1460 Golf Club Lane
Clarksville, TN 37040

Dr. Charles E. Clark
Box 2160-20
East Tennessee State University
Johnson City, TN 37601

Robert D. Cranford
434 149th Street
Nashville, TN 37215

Barry R. DeYoung, Jr.
1023 Savannah Road
Maryville, TN 37804

Jeff Delfin
463 James Drive
Nashville, TN 37215

Dr. Ronald S. Caldwell
Division of Natural Sciences
Union College
Barbourville, KY 40906

Dr. Donald S. Noll
626 Dover Road
Clarksville, TN 37040

Barbara J. Ferris
261 North Avenue
Cookeville, TN 38501

Barbara J. Ferris
5359 Sainte Marine
Clarksville, TN 37040

Ramona P. Fox
500 Houston Avenue, N.E.
Cleveland, TN 37324

Peter G. Poole
1720 West End Ave.
Nashville, TN 37203

Dr. Donald S. Noll
626 Dover Road
Clarksville, TN 37040

Dr. Donald S. Noll
626 Dover Road
Clarksville, TN 37040

Dr. John W. Harris, Chairman
Host Specificity of Mistletoe in Middle Tennessee. THOMAS E. DAVIS and S. K. CLEARY, Middle Tennessee State University.

A problem of the type is to determine the location of the roots in the soil, for 50 feet of the plant. The data are analyzed using a regression model with roots being significantly different from those of the main plant. The regression coefficient is then used to predict the number of roots in the soil. The results of this analysis indicate that the number of roots in the soil is positively correlated with the number of roots in the main plant. The results are consistent with previous studies, suggesting that the number of roots in the soil is a significant factor affecting the growth of the plant. The implications of these findings are discussed, indicating the potential for using such data to improve the management of mistletoe-infested areas. The results of this study are presented in detail, focusing on the methodology, data analysis, and interpretation of the results. The conclusions are drawn, highlighting the importance of understanding the root distribution and its relationship to the growth of the mistletoe plant.