The eighty-first meeting of the Tennessee Academy of Science was held November 19-20, 1971, at Middle Tennessee State University, Murfreesboro, Tennessee. The meeting was sponsored by the College of Science and the University. The meeting was held in cooperation with the Tennessee Academy of Sciences, the Tennessee State University, and the University of Tennessee. The meeting was supported by the National Science Foundation and the Tennessee Higher Education Commission.

The meeting consisted of two days of scientific sessions, with the first day dedicated to papers presented by students and the second day to papers presented by faculty members. The meeting was also attended by members of the Tennessee Academy of Sciences, the Tennessee State University, and the University of Tennessee.

The meeting was concluded with a dinner at the University Hotel, where the officers of the Academy were installed for the coming year. The meeting was adjourned at 1:15 A.M. C.S.T.

The Chairman of the Auditing Committee, Mr. William Smith, submitted his Committee's report as follows:

"The Treasurer's report indicated that the Academy's financial position is sound and that the Academy is in a strong financial position for the coming year. The Academy is well poised to continue its support of scientific research and education in the state."

A motion was passed to accept the report.

The Chairman of the Membership Committee, Mr. Johnny O. Young, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's membership is growing steadily and that the Academy is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Executive Committee, Mr. Floyd M. Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Finance Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's financial position is sound and that the Academy is in a strong financial position for the coming year. The Academy is well poised to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Program Committee, Mr. Johnny O. Young, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Publications Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's publications program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Education Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's education program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Research Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's research program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Student Services Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's student services program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Development Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's development program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Administration Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's administration program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Finance Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's financial position is sound and that the Academy is in a strong financial position for the coming year. The Academy is well poised to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Program Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Publications Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's publications program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Education Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's education program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Research Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's research program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Student Services Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's student services program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Development Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's development program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.

The Chairman of the Administration Committee, Mr. Bill Ford, was absent from the meeting, and his report was read by Mr. Bill Ford. The report indicated that the Academy's administration program is well positioned to continue its support of scientific research and education in the state.

A motion was passed to accept the report.
Journal of the Tennessee Academy of Science
Proceedings of the Academy of Science
Volume 47, Number 2, April 1, 1972
ABSTRACTS OF PAPERS PRESENTED AT THE 47TH GENERAL MEETING

GENERAL SESSION
FRIDAY, NOVEMBER 19, 10:00 A.M.

UNIVERSITY CENTER THEATER


Hull, Dr. George J., Jr., Dept. of Biology, Fisk Univ., Nashville
Jones, Miss Carolyn S. Box 961, Lee College, Cleveland
Kimball, Hiram H., Dept. of Biol. Sci., Univ. of Tenn., Knoxville
Knight, M. C. DeWeyne, Lee College, Cleveland
Martin 82711
Koehn, Dr. William H., Box 416, Middle Tennessee State
University, Murfreesboro
Leffler, Dean J. E., Box 347, Tennessee A&M
College, Chattanooga, #4
Lee, John, M. J., Dept. of Biology, George Rogers Clark
College, Danville, Ky.


Hull, Dr. George J., Jr., Dept. of Biology, Fisk Univ., Nashville
Jones, Miss Carolyn S. Box 961, Lee College, Cleveland
Kimball, Hiram H., Dept. of Biol. Sci., Univ. of Tenn., Knoxville
Knight, M. C. DeWeyne, Lee College, Cleveland
Martin 82711
Koehn, Dr. William H., Box 416, Middle Tennessee State
University, Murfreesboro
Leffler, Dean J. E., Box 347, Tennessee A&M
College, Chattanooga, #4
Lee, John, M. J., Dept. of Biology, George Rogers Clark
College, Danville, Ky.


Hull, Dr. George J., Jr., Dept. of Biology, Fisk Univ., Nashville
Jones, Miss Carolyn S. Box 961, Lee College, Cleveland
Kimball, Hiram H., Dept. of Biol. Sci., Univ. of Tenn., Knoxville
Knight, M. C. DeWeyne, Lee College, Cleveland
Martin 82711
Koehn, Dr. William H., Box 416, Middle Tennessee State
University, Murfreesboro
Leffler, Dean J. E., Box 347, Tennessee A&M
College, Chattanooga, #4
Lee, John, M. J., Dept. of Biology, George Rogers Clark
College, Danville, Ky.


Hull, Dr. George J., Jr., Dept. of Biology, Fisk Univ., Nashville
Jones, Miss Carolyn S. Box 961, Lee College, Cleveland
Kimball, Hiram H., Dept. of Biol. Sci., Univ. of Tenn., Knoxville
Knight, M. C. DeWeyne, Lee College, Cleveland
Martin 82711
Koehn, Dr. William H., Box 416, Middle Tennessee State
University, Murfreesboro
Leffler, Dean J. E., Box 347, Tennessee A&M
College, Chattanooga, #4
Lee, John, M. J., Dept. of Biology, George Rogers Clark
College, Danville, Ky.


Hull, Dr. George J., Jr., Dept. of Biology, Fisk Univ., Nashville
Jones, Miss Carolyn S. Box 961, Lee College, Cleveland
Kimball, Hiram H., Dept. of Biol. Sci., Univ. of Tenn., Knoxville
Knight, M. C. DeWeyne, Lee College, Cleveland
Martin 82711
Koehn, Dr. William H., Box 416, Middle Tennessee State
University, Murfreesboro
Leffler, Dean J. E., Box 347, Tennessee A&M
College, Chattanooga, #4
Lee, John, M. J., Dept. of Biology, George Rogers Clark
College, Danville, Ky.