been recommended by the Executive Committee and that a copy has been sent to every voting member of the Academy at least fifteen days before the date of the meeting.

ARTICLE X
Bylaws

Bylaws may be adopted, amended, or repealed at any annual meeting by a majority vote of the voting members present.

Section 1.— The annual dues of members and Fellows are $5.00, except that all teachers below the college level shall pay dues at $3.00. Honorary members are exempt from the payment of dues.

Section 2.— Any member that contributes ten dollars ($10.00) or more to the Academy becomes a Sustaining Member for that year. Institutions may also be elected to Sustaining Membership by the Executive Committee.

Section 3.— A person, institution or business organization may be elected by the Executive Committee to Supporting Membership. The annual dues for such memberships are $25.00.

Section 4.— Any member who makes a single payment of $75.00 becomes a Life Member and may enjoy all the privileges of the Academy without further payment of dues.

Section 5.— Any person, institution, or business organization contributing $100.00 or more to the Academy becomes a Patron of the Academy.

Section 6.— Notice of all meetings of the Academy shall be sent to all of the members at least 2 months in advance of the date of the meeting.

Section 7.— A program committee, of which the officer of highest rank residing near the place of meeting shall be the chairman, shall be appointed by this chairman at least six months in advance of the date of the meeting.

Section 8.— Election of officers, except the Editor and the Director of the Reelfoot Lake Biological Station, shall be by ballot, but, with unanimous consent of the members the Secretary may cast one ballot, representing the unanimous vote of the members present. A nominating committee shall be appointed by the president before the annual business meeting to nominate officers to serve the Academy during the ensuing year.

Section 9.— A committee of three on resolutions shall be appointed by the President before the annual meeting.

Section 10.— Any member one year in arrears for dues shall be ineligible to vote to hold an elective office in the Academy. The Journal of the Tennessee Academy of Science may be withheld from members in arrears at the discretion of the Executive Committee, until dues in arrears shall have been paid.

Section 11.— The order of the business at annual meetings shall be as follows:
1. Call to order by the President.
2. Reading of the minutes of the previous meeting.
3. Reports of officers.
4. Election of members.
5. Business.
6. Reports of committees.
7. Election of officers.
8. Adjournment.

The order of business may be changed.

Section 12.— Bylaws may be adopted, amended, or repealed at any annual meeting by a majority vote of the voting members present.

Section 13.— The rules contained in Robert's Rules of Order shall govern the Academy in all cases in which they are not inconsistent with the Constitution and Bylaws of this organization.

JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE
Volume 47, Number 2, April, 1972

PROCEEDINGS OF THE TENNESSEE ACADEMY OF SCIENCE FOR 1971

JAMES D. CAPONETTI, Secretary
THE UNIVERSITY OF TENNESSEE, KNOXVILLE

EXECUTIVE COMMITTEE MEETINGS
January Meeting, 1971

The Executive Committee Meeting of the Tennessee Academy of Science was called to order by the President at 7:55 P.M. CST in the Walnut Room of the H. G. Hill Student Center, George Peabody College, Nashville, on January 29, 1971. Members present were Richard J. Raridon, President and Director of the Collegiate Division; James L. Wilson, Past-President; Arthur W. Jones, President-Elect; James D. Caponetti, Secretary; Robert L. Wilson, Treasurer; Gus Tomlinson, Journal Editor; Mayme Lee Blankenship, Associate Journal Editor; John H. Bailey, Director of the Junior Academy; Paul Wishart, Director of the Visiting Scientists Program; William F. Nelson, Director of the Reelfoot Lake Biological Station; Joe P. Minor, Consultant on Science Education Activities; Robert F. Sears, John G. Parchment, and Raymond T. Tanner, Members-at-Large.

The Secretary passed out printed copies of the Minutes of the November, 1970, Executive Committee Meeting and the Annual Business Meeting. They were read, one correction made, and then approved. Since the Annual Meeting, 14 new members have joined the Academy. A motion was seconded and passed to accept the 14 applicants into membership in the Academy. Total membership at the moment is 886.

The Treasurer submitted his report. As of January 1, 1970, the balance was $9,427.78. Receipts, which included the ap-
The TAS and the State Board of Education. We were advised that the TAS would attend the TBS by the State Board of Education for this
year meeting.

The chairman of the 1970-71 committee of the Handbook of the
State of Tennessee, Mr. J. H. Warren, discussed the book.

At the close of the 1970-71 session of the Handbook of the State
of Tennessee, the board of directors met and discussed.

This book is revised and updated periodically to reflect the most
recent legislative actions and developments in education throughout
the state.

I would like to extend my thanks to all those who contributed to
the production of this year's edition. Special thanks are due to
the following individuals for their hard work and dedication:

R. L. Thompson, Executive Director

The 1971-72 edition will be available soon.

Registration fee at the annual meeting for $2.00 for non-students and
no charge for students. The registration forms will be available at the
Registration Desk located in the Student Union Building.

The Executive Committee also voted to present the following items
dates of November 17 and 18, 1971, for the next annual

6. After a careful review of budgets and available funds, a

THE EIGHTY-FIRST MEETING OF THE TENNESSEE ACADEMY OF SCIENCE

NOVEMBER 19-20, 1971

MIDDLE TENNESSEE UNIVERSITY

The eighty-first meeting of the Tennessee Academy of Science was held at the Middle Tennessee State University.

The meeting was attended by approximately 300 participants from across the state.

The meeting included presentations on a wide range of scientific topics, including

1. Shahki K. Amin, University of Tennessee, Martin
2. Carl D. Brown, MTSU, Memphis University, Memphis,
3. Clay M. Chandler, Middle Tennessee State University, Murfreesboro
4. Edward C. Celikis, The University of Tennessee, Knoxville
5. Winton L. Long, University of Tennessee, Chattanooga
6. Hostel C. Phillips, Austin Peay State University, Clarksville
7. Robert H. Simons, University of Tennessee, Knoxville
8. Brother Robert L. Stahn, Christian Brothers College, Memphis

A motion was passed and seconded that those named be made Fellows of the Academy.

The Chairman of the membership Committee, Mr. John G. Wiley, presented the report.

The Academy, through its Committee on Nominations, has concentrated its efforts to

The motion to accept the audit was carried unanimously.

The chairman of the Academy, Mr. John G. Wiley, presented the report.

The Academy has approved the following new members:

John G. Wiley, University of Tennessee, Knoxville
H. Cottrell, University of Tennessee, Knoxville

Dr. Donald R. Jones, Professor of Zoology, University of Tennessee,

The motion was seconded and passed.

The annual meeting of the Tennessee Academy of Science was held to select new members for the Board of Directors and the Executive Committee.

Dr. Donald R. Jones was elected as President of the Academy for the 1971-1972 term.

The meeting was adjourned at 11:50 A.M.