

Article V - Section 3. Present Reading:

Sections of the Academy. Upon application to the Executive Committee by not less than fifteen members, permission may be granted to form a section of the Academy, subject to ratification at the annual meeting. These sections in general shall correspond to those of the American Association for the Advancement of Science. Officer of these sections shall be a Chairman, a Secretary, and an Editor, to be elected by the section.

Proposed Reading:

Sections of the Academy. Upon application to the Executive Committee by not less than fifteen members, permission may be granted to form a section of the Academy, subject to ratification at the annual meeting. Officers of each section shall be a Chairman, a Secretary, and an Editor, to be elected by the section. Action: in last line of proposed reading, change "an Editor" to "one or more Editors"—passed.

Article V - Section 6. Proposed Reading:

Provision is hereby afforded for sponsorship of a Visiting Scientist Program by the Tennessee Academy of Science. Action: passed.

Article VIII - Section 1. Present Reading:

The fiscal year of the Academy shall end on December 31. All annual dues for the ensuing year shall be due on January 1. Any member in arrears for dues for two years shall be dropped from the roll of members, provided he has had at least four notices mailed to him.

Proposed Reading:

The fiscal year of the Academy shall end on June 30. All annual dues for the ensuing year shall be due on July 1. Any member in arrears shall be dropped from the roll of members, provided he or she has had adequate notice. Action: returned to the proposers for re-wording.

Article X. Delete:

Bylaws may be adopted, amended, or repealed at any annual meeting by a majority vote of the voting members present.

Article X - Section 1. Present Reading:

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.

Proposed Reading:

The annual dues of members and Fellows are \$8.00 except: teachers below the college level whose dues are \$5.00, students whose dues are \$3.00, or emeritus members whose dues are \$4.00, if they wish to continue receiving the JOURNAL or \$1.00

if they do not want the JOURNAL. Honorary members are exempt from the payment of dues.

Action: returned to the proposers for the inclusion of the category of Industrial Members into the proposed reading.

Article X - Section 4. Present Reading:

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.

Proposed Reading:

Any member who makes a single payment of \$100.00 becomes a Life Member and may enjoy all the privileges of the Academy without further payment of dues.

Action: passed.**Article X - Section 7. Present Reading:**

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.

Proposed Reading:

The President-Elect shall serve as chairman of the program committee. A Local Arrangements Chairman shall be selected from among Academy members of the host institution or immediate vicinity.

Action: in second line of proposed reading, change "A Local Arrangements Chairman shall be selected from among" to "He shall select a Local Arrangements Chairman from among"—passed.

3. The subject of the Journal Cumulative Author Index was deferred to the January, 1975, Executive Committee meeting.

4. At the request of the American Association of Physics Teachers, Dr. Raridon reviewed the possibility of changing the date of the annual meeting so that more physicists could attend the Academy's annual meeting. Several years ago, Dr. Robert Sears of Austin Peay State University and, at that time, a member-at-large of the Academy, investigated all possible dates throughout the year. He found that the Friday before Thanksgiving presented the least conflicts, and that date was adopted. Dr. Raridon's investigations confirmed Dr. Sears's findings. Therefore, a motion was passed to not change the date of the annual meeting.

New Business

1. The Treasurer reported that the Auditing Committee raised the question of whether the major appropriations to the several divisions of the Academy should be added to the Invoice File. A motion was passed to defer action on this subject to the January, 1975, Executive Committee meeting.

2. A motion was passed to appoint Drs. Bailey and Raridon delegates to the A.A.S.

The meeting was adjourned at 11:30 p.m. C.S.T.

THE EIGHTY-FOURTH MEETING OF THE TENNESSEE ACADEMY OF SCIENCE

NOVEMBER 22-23, 1974

UNIVERSITY OF TENNESSEE

CENTER FOR THE HEALTH SCIENCES

The eighty-fourth meeting of the Tennessee Academy of Science, Inc., was held November 22-23, 1974, at the University of Tennessee Center for the Health Sciences, Memphis, Tennessee. Dr. Raymond L. Tanner, Professor of Radiology at the U-T Center for the Health Sciences, was Chairman of the Local Arrangements Committee, and Dr. Albert I. Myers, Professor and Chairman of the Department of Chemistry at Carson-Newman College at Jefferson City, was Program Chairman.

Meeting registrations totaled 257. Of these, 141 were university-college professors, 1 county school consultant, 3 high school teachers, 1 from the State Department of Education, 3 from State Divisions, 2 from ORNL, 1 from the Museum of Atomic

Energy, 1 from the Institute of Environmental Studies, and 104 students.

The General Session was held in the Schreier Auditorium of the Student Center on Friday morning beginning at 10:00 a.m. C.S.T. President Robert L. Amy chaired the session, and the welcome was given by Dr. Samuel R. Bozeman, Executive Assistant to the Chancellor. The theme of the session was current topics of academic interest. Section meetings were held Friday afternoon; 92 papers were presented according to the program. The Annual Business Meeting was held in the Schreier Auditorium of the Student Center at 5:00 p.m. C.S.T.

The Annual Dinner was held in Room 305 of the Student

Center. It was served buffet style beginning at 7:00 p.m. C.S.T. Friday evening. Dinner ticket sales were 110. President Robert L. Amy presided, and the address was delivered by Mr. H. A. Richards, Jr., Retail Sales Manager of the Central Marketing Region for the Exxon Company, who spoke on "Update on Energy."

The Executive Committee meeting of the Tennessee Section of the American Association of Physics Teachers was held on Saturday morning at 7:30 a.m. C.S.T. in the Forest Room of the Sheraton Motor Inn, Memphis. The Joint Session of the TAAPT and the Physics-Astronomy Section of the TAS was held at 9:15 a.m. C.S.T. in Room 206 of the Student Center. Dr. Edward W. Burke, Jr., King College, Bristol, presided, and eight papers were presented. The Collegiate Division also held its meeting on Saturday morning at 9:00 a.m. C.S.T. in Room 204 of the Student Center. Dr. Richard J. Raridon, Director of the Collegiate Division, chaired the meeting, and 10 papers were presented by students.

ANNUAL BUSINESS MEETING, 1974

The Annual Business Meeting of the Tennessee Academy of Science, Inc., was called to order by President Robert L. Amy at 5:00 p.m. C.S.T. in the Schreier Auditorium of the Student Center at the University of Tennessee Center for the Health Sciences, Memphis, on November 22, 1974. Forty-eight persons were present.

The Treasurer reported that since last January, there were 16 new membership applications. During the annual meeting, there were 19 new memberships. Total Academy membership at this moment is 657. A motion was passed to approve all 1974 membership applications.

The reports of the Treasurer; Editor; Directors of the Junior Academy, the Collegiate Division, and the Visiting Scientists Program; and the Delegate to AAS were similar to those presented the previous evening at the Executive Committee Meeting. All reports were accepted.

The Chairman of the Auditing Committee, Dr. Myron S. McCay, presented the following report:

Members of the Audit Committee of the Tennessee Academy of Science examined the accounts and records of the Treasurer of the Academy, Dr. Robert Lake Wilson, on Tuesday, October 29, 1974. The following files and records were examined in considerable detail and found to be properly prepared by the Treasurer: (a) The Academy's Invoice File, (b) The Permanent Record of Payments, (c) The Cancelled Check File, (d) The Record of Bank Deposits, and (e) The File of Monthly Bank Statements.

All records were found to be accurate and complete. The Treasurer is to be complimented on the convenient display of past transactions provided in the Academy's fiscal records.

The Audit Committee wishes to raise one question for the Executive Committee's consideration. Should the major appropriations to the several divisions of the Academy be added to the Invoice File? In the past these items have been recorded officially in the Minutes of the Academy, only. The Audit Committee has presumed that this is adequate and satisfactory.

Dr. McCay raised the question of the Invoice File. President Amy replied that the Executive Committee had deferred action on this question to its next meeting in January, 1975. The Committee's report was accepted.

The Chairman of the Fellows Committee, Dr. Melburn R. Mayfield, presented the following report:

The following members of the Tennessee Academy of Science are nominated to become Fellows of the Academy with all the rights, honors, and privileges thereunto appertaining:

- (1) Herbert Armentrout, Johnson City
- (2) Diane Nelson, Johnson City
- (3) Marvin Tidwell, Cookeville
- (4) Mildred Perry, Clarksville

A motion was passed to accept the report and that those named be made Fellows of the Academy.

The Chairman of the Membership Committee, Mr. Johnny Younghans, was absent from the meeting but the Secretary received the following report from the Chairman after the annual meeting:

The Membership Committee has concentrated on the enlistment of new members from our institutions of higher learning. A member at each of the colleges and universities in the state has been supplied with several membership application cards to give to interested non-members among their colleagues and associates. This approach was mildly effective when it was last tried about seven years ago. The Chairman wishes to express his appreciation to the members of his Committee.

The Chairman of the Necrology Committee, Dr. George W. Edwards, read the names of three members whose death came to the attention of the Secretary and the President during the year:

Mr. Albert Ganter, Nashville (a Past-President of TAS)

Dr. Glen Gentry, Donelson

Mr. Daniel E. Manges, Cleveland

Dr. Edwards asked if anyone in the audience knew of other deaths. Dr. S. K. Ballal, Tennessee Technological University, Cookeville, announced that Dr. Paul L. Hollister, Professor Emeritus at Tech had just passed away. Dr. Edwards asked the audience to rise and observe a moment of silent prayer. The Committee's report was accepted.

The Chairman of the Research Committee, Dr. R. Gary Litchford, presented the following report:

Mr. President, and Fellows of the Academy, the Research Committee has completed the following activities this year:

1. Committee members were selected from one campus to eliminate previous problems of communication which affected the speed of decision making. The committee consisted of five (5) members, representing expertise in all science areas.

2. Reviewed previous activities of the Research Committee involving decisions affecting an unstated policy for decision making.

3. Created a policy statement to serve as a guideline for application procedures and the evaluation of Grant-in-Aid requests.

4. Contacted all high schools of Tennessee by letter, informing science teachers of the funds available.

5. Received eight (8) applications requesting \$1,685.00 for project support. All of these were carefully evaluated. Four (4) were approved for a total of \$340.00 for project support. Those persons not approved were informed as to why they were not, and were encouraged to reapply for funding.

A balance of \$164.00 remains for the support of projects of high school students of Tennessee. The Research Committee will make every effort to put these funds to work before the end of the year.

The following students have been recommended for funding:

J. M. Crenshaw, Farragut High School, Concord, Tn.

G. S. Ely, Bryan College, Dayton, Tn.

M. A. Montgomery, Elizabethton High School, Elizabethton, Tn.

W. C. Snyder, Christian Brothers High School, Memphis, Tn.

We thank you for the opportunity to serve the TAS. Respectfully submitted, Bernie Benson, Science Education, UTC; Charlie Brown, Mathematics, UTC; Jim McNew, Psychology, UTC; Henry Ransom, Physics, UTC; Gary Litchford, Biology, UTC, Committee Chairman.

The Committee's report was accepted.

The Chairwoman of the Resolutions Committee, Dr. Lois Beach, presented the following resolutions:

WHEREAS, the Tennessee Academy of Science, Inc., including the Collegiate Division, is enjoying a most pleasant, profitable, and well-organized series of meetings at the University of Tennessee Center for the Health Sciences at Memphis, and

WHEREAS, the success of these meetings has resulted from the efforts of the officers and sponsors of these organizations, the chairmen of the respective sections, the members of the Committee on Local Arrangements (Raymond L. Tanner, Chairman and Billy Ray Jennings), from recognition given the meetings by the various news media, and from the generous hospitality of our host institution,

BE IT RESOLVED, therefore, that the Tennessee Academy of Science, Inc., express its gratitude and sincere appreciation to these and all others who have contributed to the success of these meetings.

WHEREAS, the Tennessee Department of Education, continuing to recognize the worth of the educational programs of the Tennessee Academy of Science, Inc., has provided funds for

these programs from monies made available by the General Assembly of Tennessee and authorized by the Tennessee Department of Finance and Administration,

BE IT RESOLVED, therefore, that the Tennessee Academy of Science, Inc., express its sincere appreciation to the State Department of Education and to the State Department of Finance and Administration for providing these funds.

BE IT FURTHER RESOLVED that these resolutions be included in the minutes of the Tennessee Academy of Science, Inc., and published as a part of the Proceedings of this meeting and that copies be sent to Chancellor Edmund D. Pellegrino of The University of Tennessee Center for the Health Sciences at Memphis; Dr. Raymond L. Tanner, Chairman of the Committee for Local Arrangements; the Tennessee Commissioner of Education, the Honorable Benjamin Carmichael; and the Tennessee Commissioner of Finance and Administration, the Honorable Gerald Adams.

All resolutions were approved.

The Chairman of the Nominating Committee, Dr. James L. Wilson, presented the following report:

The Nominating Committee would like to make a motion that the following persons be nominated as officers of the Tennessee Academy of Science for 1975:

- President: Dr. Albert Myers
- President-Elect: Dr. John M. Mallette
- Secretary: Dr. James Caponetti
- Treasurer: Dr. Robert Wilson.

President Amy asked for further nominations from the floor; there were none. Committee Chairman Wilson moved to bring further nominations to a close, and that the Secretary cast one vote which would represent the unanimous election of each candidate to his respective office. The motion passed.

Other Business

1. Dr. Albert L. Myers presented the list of proposed amendments to the constitution and by-laws which he and the Secretary had presented to the Executive Committee the previous evening, and contained in the minutes of the Executive Committee Meeting. The Academy members present at the business meeting concurred with all the actions of the Executive Committee.

2. President Amy notified the membership present of the sites of the next three annual meetings (see the Minutes of the Executive Committee Meeting), and he thanked everyone for their help during his tenure as President of the Academy.

The meeting was adjourned at 6:30 p.m. C.S.T.

TENNESSEE ACADEMY OF SCIENCE
OPERATIONS ACCOUNT

TREASURER'S REPORT

JULY 1, 1973 THROUGH JUNE 30, 1974

ROBERT L. WILSON, *Treasurer*

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

Cash in Bank, July 1, 1973		\$ 7,696.77
Less: Outstanding check, July 1, 1973		15.00
Cash Balance, per books, July 1, 1973		\$ 7,681.77
Cash Receipts:		
Membership Dues	\$ 4,037.00	
Journal Subscriptions	1,415.00	
Journal Sales	115.00	
AAAS Grant	158.00	
Registration Fee (Vanderbilt)	167.40	
Reelfoot Lake	1,500.00	
TAS Geology Field Trip	1,657.00	
Tennessee Department of Education	15,000.00	
Contribution	2.00	
Total Cash Available		\$24,051.40
Cash Disbursements:		
Editor's Office	\$ 2,411.00	
Treasurer's Office	2,020.00	
Secretary's Office	125.35	

Journal (Printing and Mailing)	6,397.11	
AAAS Conference	1,030.80	
AAAS 1974 Assessment	43.15	
Annual Meeting Expenses	1,021.64	
Tech Aqua Scholarships	1,293.00	
Auditor's Fee & Treas. Bond	104.50	
Field Trip (TAS)	1,657.00	
International Publication Fee	38.00	
Programs of the Academy:		
Visiting Scientist	0.00	
Junior Academy	0.00	
Collegiate Div.	0.00	
Reelfoot Lake	0.00	7,300.00
Cash Balance, per books, July 1, 1973		\$ 7,291.62
Add: Outstanding checks, June 30, 1974		-0-
Cash in Pioneer Bank, June 30, 1974		\$ 7,291.62
Savings Account in Chattanooga, June 30, 1974		\$ 5,772.92

REPORT OF THE AUDITOR

To the Tennessee Academy of Science:

I have examined the Treasurer's Report of cash receipts and disbursements, Operations Account, for the period, July 1, 1973 to June 30, 1974.

In my opinion, on the basis of information made available to me, the statement fairly present the transactions of these accounts.

Sincerely,
Rayford J. McLaurin
Auditor
Chattanooga, Tennessee

TAS NEW MEMBER LIST—1974

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|--|--|
| Don Anderson
110 Audubon Road
Oak Ridge, TN. 37830 | Joan W. Burr
St. Mary's Episcopal School
60 Perkins Extended
Memphis, TN. 38117 |
| Dr. S. K. Ballal
1129 Womack Avenue
Cookeville, TN. 38501 | Ralph B. Carrithers
The Webb School
Bell Buckle, TN. 37020 |
| Bruce H. Bauer
Box 7408 TTU
Cookeville, TN. 38501 | Mark A. Castellaw
3778 Longhollow
Memphis, TN. 38128 |
| Dr. Melvin L. Beck
Dept. of Biology MSU
Memphis, TN. 38152 | Helen J. Chong
Randolph Dorm UTM
Memphis, TN. 38128 |
| Dr. Richard E. Bergenback
Dept. Geology-
Geography UTC
Chattanooga, TN. 37401 | Betsy Belinda Collins
Box 2153 MTSU
Murfreesboro, TN. 37130 |
| Dr. Charles J. Biggers
Biology Dept. MSU
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Biology Dept. TTU
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| William G. Bridges
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Cleveland, TN. 37311 | Margaret Wallace Davis
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| Evelyn C. Brown
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Dept. Biol. Sciences UTM
Memphis, TN. 38152 |