

the spring of 1975, at Bryan College, Belmont College, and UT-Martin. A total of 22 papers were presented to combined audiences of about 100 students and faculty. Luncheons were provided at each meeting and travel expenses were paid for out-of-town attendees. The total expenses were \$427.34. The meetings were organized by the regional sponsors—Dr. Robert G. Ziegler, Lincoln Memorial University; Dr. John T. Netterville, David Lipscomb College; and Dr. George E. Rouse, Bethel College. A total of 12 papers have been received for presentation at the fall Collegiate Division meeting on November 22 at UT-Nashville.

The Director's report was accepted by a passed motion.

The Academy's representative to the AAS Council gave his report at the last Executive Committee Meeting (January, 1975) summarizing the meeting of the AAS Council in New York City on January 28, 1975.

The Director of the Reelfoot Lake Program reported that he and his advisory committee were still working with representatives of the State Department of Conservation on a cooperative Reelfoot Lake instructional program.

The Chairman of the Science Advisory Committee had asked Dr. William Ellis of Austin Peay State University to explore and assess the feasibility of having a Science Advisory Committee available to advise state officials. Dr. Ellis attended the Executive Committee meeting by invitation of Dr. Amy and President Myers, and was asked to present his report under NEW BUSINESS later in the evening.

The Secretary presented the list of nominees for Fellow of the Academy as recommended by the Fellows Committee. The named persons were approved by a passed motion and are listed in the committee's report in the minutes of the Annual Business Meeting.

#### Old Business

1. The sites for the next three annual meetings are set as follows:

- a. 1976 at the University of Tennessee at Chattanooga.
- b. 1977 at Tennessee Technological University at Cookeville.
- c. 1978 at Lambuth College at Jackson.

2. President Myers presented a few numerical changes in the revised amendments to the Constitution and By-Laws of the Academy but there were no major wording changes. The revised amendments would now go to the membership at the annual business meeting.

3. The Secretary wrote a letter to Dr. Eric L. Morgan of

Tennessee Technological University concerning the establishment of a new section of Ecology. To date, the Secretary has received no reply.

#### New Business

1. A motion by the Secretary was passed to appoint Dr. Raridon the Academy's representative to Section X of AAS and delegate to AAS.

2. Dr. William Ellis presented his report concerning the Science Advisory Committee. In summary, he polled the General Assembly with a questionnaire asking their opinion on how worthwhile an effort this would be for the Academy and the state. The response from the legislators was such that Dr. Ellis recommended that the Academy go forward with this program. Dr. Ellis further volunteered to develop a list of qualified persons to be an advisory council to whom the state legislators could consult on matters of science. A motion was passed to approve Dr. Ellis's recommendations and to allot him a budget of \$500.00 for expenses; \$300.00 now and \$200.00 later as the program develops. Another motion was passed to retrain the present policy subcommittee with the addition of the President-Elect as a member.

3. The Secretary read a letter from Dr. Robert E. Martin, Director of the Tech Aqua Biological Station. The body of the letter is as follows:

The Tennessee Academy of Science Scholarships to Tech Aqua for 1975 go to:

Eastern Region: Stephen H. Elmore, Roane State Community College

Middle Region: Sara H. Murphy, Vanderbilt University

Western Region: Craig W. Williams, University of Tennessee at Martin

These students will be taking Tech Aqua courses and doing research problems which will lead to papers for presentation at TAS Collegiate Division meetings next year.

The TAS Scholarships have meant much to the worthy students receiving them and have been especially beneficial in the Tech Aqua recruiting program. We would like to see these continued by the Academy so long as there is no strain on TAS financial resources.

TAS support of the Tech Aqua Biological Station has certainly enhanced the development of this program and is greatly appreciated.

A motion was passed to allocate \$500.00 to Tech Aqua for scholarships.

The meeting was adjourned at 10:25 p.m. C.S.T.

## THE EIGHTY-FIFTH MEETING OF THE TENNESSEE ACADEMY OF SCIENCE

NOVEMBER 21-22, 1975

THE UNIVERSITY OF TENNESSEE, NASHVILLE

The eighty-fifth meeting of the Tennessee Academy of Science, Inc., was held November 21-22, 1975, at The University of Tennessee, Nashville, Tennessee. Dr. James L. Wilson, Professor of Biological Sciences at The University of Tennessee, Nashville, was Chairman of the Local Arrangements Committee, and Dr. John M. Mallette, Vice-Chancellor for Academic Affairs at The University of Tennessee, Nashville, was Program Chairman.

Meeting registrations totaled 257. Of these, 150 were university-college professors, 1 technical school teacher, 10 high school teachers, 4 from State Divisions, 5 from the Oak Ridge National Laboratory, 1 from the Oak Ridge Associated Universities, 1 from the Oak Ridge Museum of Atomic Energy, 2 from private industry, and 83 students.

The General Session was held in the Auditorium Room 358 of the main building on Friday morning beginning at 9:30 a.m. C.S.T. President Albert L. Myers chaired the session, and the welcome was given by Dr. Charles E. Smith, Acting Chancel-

lor of the University. The theme of the session was "Energy as a Way of Life." Section meetings were held Friday afternoon; 72 papers were presented according to the program. The Annual Business Meeting was held in Room 353 of the main building of The University at 5:00 p.m. C.S.T.

The Annual Dinner was held in several combined dining rooms of the Sheraton Hotel. It was served buffet style beginning at 7:30 p.m. C.S.T. Friday evening. Dinner ticket sales were 120. President Albert L. Myers presided, and the address was delivered by John W. Prados, Vice-President for Academic Affairs of The University of Tennessee System, who spoke on "Energy Resources and Alternatives."

The Joint Session of the Tennessee Section of the American Association of Physics Teachers (TAAPT) and the Physics-Astronomy Section of the Academy was held at 9:15 a.m. C.S.T. Saturday morning in Room 354 of the main building of The University. Dr. Robert S. McDow, Nashville State Tech-

nical Institute presided and seven papers were presented. The Business Meeting of TAAPT was held at 10:15 a.m. in the same room.

The Collegiate Division also held its meeting on Saturday morning at 9:00 a.m. C.S.T. in Room 353 of the main building. Dr. Richard J. Raridon, Director of the Collegiate Division, chaired the meeting, and 12 papers were presented by students.

### ANNUAL BUSINESS MEETING NOVEMBER, 1975

The Annual Business Meeting of the Tennessee Academy of Science, Inc., was called to order by President Albert L. Myers at 5:00 p.m. C.S.T. in Room 353 of the main building of The University of Tennessee at Nashville on November 21, 1975. Sixty persons were present.

The Treasurer reported to the Secretary that there were 37 new membership applications during 1975 including those who joined at the annual meeting. Total Academy membership at this moment is 628. A motion was passed to approve all 1975 membership applications.

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

The Chairman of the Auditing Committee, Dr. Myron S. McCay, could not be present at the meeting but sent the following report to the Secretary:

The records of the Treasurer of the Tennessee Academy of Science have been examined and found to be accurate and complete for the fiscal year, 1974-1975. The report of the certified accountant who had previously completed an audit of these records is attached. The Audit Committee found the records in agreement with that audit report.

The Committee's report was accepted by a passed motion.

The Chairman of the Fellows Committee, Dr. Robert F. Sears, presented the following report:

Because of their service to The Tennessee Academy of Science and their efforts to improve science education and research in Tennessee, these members are nominated to become Fellows of The Tennessee Academy of Science:

1. Julian T. Darlington, Memphis
2. David A. Etnier, Knoxville
3. Paul Preston Foote, Martin
4. Billy Ray Jennings, Memphis
5. Prem S. Kahlon, Nashville
6. James M. Mason, Memphis
7. Clinton B. Nash, Memphis
8. John T. Netterville, Nashville
9. George E. Rouse, McKenzie
10. Winifred L. Smith, Martin
11. Robert G. Ziegler, Harrogate

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 Younghanse, was absent from the meeting and did not send a report to the Secretary.

The Chairman of the Necrology Committee, Dr. George W. Edwards, was absent from the meeting and so notified the Secretary by letter. The Secretary had notified him and the other members of the committee that one death among the members had occurred during 1975; Dr. Moffatt G. Boyce of Nashville. After the meeting, the Treasurer notified the Secretary of another death—Mr. Stelman Emerson Bennett of Knoxville.

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

The American Association for the Advancement of Science provided The Tennessee Academy of Science with research funds totaling \$446.00. Six awards have been made for a total of \$443.00. This leaves a balance of \$3.00 to be carried forward to next year. The grants were awarded to:

- Bill Boyd, Bryan College
- Barry Campbell, Clarksville High
- Alan Dean, Lee College
- Ann Holmes and Rudy Nowlin, UTC

Milton Riley, Lee College

W. C. Snyder, Christian Brothers, Memphis

Mr. William C. Snyder was awarded in 1974 and received funds toward his work in new antibiotics from fungi. Mr. Snyder was the division grand-prize winner for the Mid-South Science and Engineering Fair held in Memphis during March of 1975. On May 16, Mr. Snyder won first place in the American Medical Association category at the International Science and Engineering Fair in Oklahoma City, Oklahoma. On May 27, the Officers and Members of the Board of Trustees of the American Medical Association invited Mr. Snyder to take part in the opening ceremonies of the 1975 Annual Convention in Atlantic City, New Jersey.

It is the intent of this committee that Mr. William C. Snyder, senior at Christian Brothers High School, Memphis, Tennessee, be recognized by the Tennessee Academy of Science for his scholarly and scientific achievement. We therefore present to the Academy a resolution that Mr. William C. Snyder be so recognized and honored.

The Committee's report was accepted by a passed motion.

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

"WHEREAS, the Tennessee Academy of Science, including the Collegiate Division, is enjoying a most pleasant, profitable, and well-organized series of meetings at The University of Tennessee at Nashville, 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 (John Mallette and James Wilson), 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 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 and published as a part of the Proceedings of this meeting and that copies be sent to Dr. Charles E. Smith, Acting Chancellor, The University of Tennessee at Nashville, Dr. John M. Mallette, Vice-Chancellor for Academic Affairs, The University of Tennessee at Nashville and Program Chairman for the Academy; Dr. James L. Wilson, Professor of Biological Sciences, The University of Tennessee at Nashville and Chairman of the Committee for Local Arrangements for the Academy; the Tennessee Commissioner of Education, the Honorable Sam H. Ingram; and the Tennessee Commissioner of Finance and Administration, the Honorable William S. Jones.

All resolutions were approved by a passed motion.

The Chairman of the Nominating Committee, Dr. Robert L. Amy, presented the following report:

The Nominating Committee proposes this slate of candidates for the Tennessee Academy of Science for 1976.

President—Dr. John M. Mallette, Vice-Chancellor, University of Tennessee, Nashville.

President-Elect—Dr. Raymond Lewis Tanner, Physics Section, The University of Tennessee Center for the Health Sciences, Memphis.

Secretary—Dr. James D. Caponetti, Department of Botany, University of Tennessee, Knoxville.

Treasurer—Dr. Robert L. Wilson, Department of Geology and Geography, University of Tennessee, Chattanooga.

Since Drs. Mallette, Caponetti and Wilson are well known to you, I shall just give you a short biographical sketch of Dr. Tanner.

Dr. Tanner is a native Memphian and attended public school in that city. He obtained the B.S. degree from Memphis State University, the M.S. from Vanderbilt and the Ph.D. from U.C.L.A.

He has held various positions with commercial firms in the field of health physics. In addition he has taught at Memphis State University, Harbor General Hospital, Torrance, California, and in the Radiology Department, College of Medicine, University of Tennessee Center for the Health Sciences. At present he is Professor and Head of the Physics Section at that Institution. He also serves as a consulting physicist to the V.A. Hospital in Memphis and as a Radiation Protection Consultant for Memphis, West Tennessee, Arkansas, and Mississippi.

He is affiliated with many professional societies and has held offices in the following:

1. American Association of Physicists in Medicine, President-elect, 1972 and member of the Board of Directors, 1970-1973.

2. South East Section of that organization, President, 1972.

3. Tennessee Section—American Association of Physics Teachers, President, 1972.

He has been a long-standing member of the TAS, was elected a Fellow in 1973, served on the Executive Committee from 1970 to 1973 and is currently a member of the Science Advisory Committee.

His list of publications is long, extending from 1958 to the present, and deal mainly with radiation and health physics. Dr. Tanner has been active in community and church affairs as a Director of Methodist Youth Fellowship for the Memphis district, the Chairman of the Wesley Foundation, Methodist Student Center at M.S.U and a member of the Board of the Jessie Mahan Day Center in Memphis.

He is married to the former Margaret Ann Foster. They have a daughter, Rebecca, and two sons, John and Paul.

The other members of the Nominating Committee (Dr. Richard Aridon and Dr. Joe Chapman) and I recommend these gentlemen to you enthusiastically. We think they will provide us with strong and capable leadership and, therefore, are happy to place their names in nomination.

President Myers asked for further nominations from the floor. Dr. James F. Payne, Associate Professor of Biology, Memphis State University was nominated for President-Elect. President Myers asked the two nominees for President-Elect (Drs. Tanner and Payne) to leave the room temporarily for a special show-of-hands election. Dr. Tanner was elected by a vote of 25 to 16. Since there were no other nominations for President, Secretary or Treasurer, the Secretary was instructed to cast one vote which would represent the unanimous election of the three latter nominees to their respective office.

President Myers presented the revised amendments to the Constitution and By-Laws as listed in the minutes of the January, 1975 Executive Committee Meeting. The membership present approved all revisions. The Secretary is now preparing an up-dated and revised Constitution and By-Laws for publication in an up-coming issues of the Journal; that issue to be selected by the Editor.

**Other Business**

1. President Myers notified the membership present of the sites of the next three annual meetings (see Minutes of the Executive Committee Meeting).

2. President Myers asked Dr. William Ellis to outline to the membership present his recommendations concerning the Science Advisory Committee (see Minutes of the Executive Committee Meeting). The membership approved.

3. The Secretary announced that he had received a letter from the Executive Officer of AAAS asking the Academy to re-assess its desire to be an affiliate of AAAS. After considering the advantages of affiliation, the membership present voted to continue affiliation with AAAS.

The meeting was adjourned at 6:05 p.m. C.S.T.

TENNESSEE ACADEMY OF SCIENCE  
OPERATIONS ACCOUNT  
TREASURER'S REPORT

JULY 1, 1974 THROUGH JUNE 30, 1975

ROBERT L. WILSON, *Treasurer*  
UNIVERSITY OF TENNESSEE AT CHATTANOOGA

Cash in Pioneer Bank, July 1, 1974 .....\$7,291.62

Cash Receipts:

Membership Dues .....	\$3,447.00	
Journal Subscriptions .....	1,267.00	
Journal Sales .....	128.74	
Annual Meeting-Banquet .....	255.75	
Registration Fees .....	670.00	
Tennessee Department of Education .....	15,000.00	
Contribution .....	7.00	20,775.49

Total Cash Available .....\$28,067.11

Cash Disbursements:

Editor's Office .....	\$2,734.00
President's Office .....	56.44
Treasurer's Office .....	1,434.00
Secretary's Office .....	394.95
Printing, Mailing-Journal .....	6,212.53
AAAS Grants .....	340.00
AAAS Assessment .....	31.40
Annual Meeting Expense .....	1,161.60
Science Advisory Council .....	375.57
Annual Meeting Travel .....	247.03
Distinguish Teacher Award .....	16.80
Brussels Int. Exposition .....	45.00

Programs of the Academy:

Visiting Scientist .....	\$2,369.83	
Junior Academy .....	2,289.56	
Collegiate Division .....	2,000.00	
Tech Aqua Scholarship .....	1,200.00	7,859.39
		20,909.21

Balance Per Books—June 30, 1975 .....\$7,157.90

Add Outstanding Check ..... 65.00

Balance Per Pioneer Bank, June 30, 1975 .....\$7,222.90

Savings Account in Chattanooga Federal: 6/30/75 .....\$6,176.01

**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, 1974 to June 30, 1975.

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

Sincerely,  
Rayford J. McLaurin  
Auditor  
Chattanooga, Tennessee