

A motion was passed to approve the nominees for offices and present them to the membership at the annual Business Meeting.

6. Research Committee. The chairman, Prem Kahlon, sent the following report:

"The Research Committee is pleased to summarize the activities for the year 1980-81.

(1) The committee reviewed the activity of the 1979-80 school year and made a final report to the President, TAS for transmission to AAAS, Office of Education.

(2) Submitted a proposal to the office of Science Education requesting \$500 which was funded for 1980-81 school year.

(3) Availability of funds was publicized in the Academy Journal, Science Fairs Coordinators (Nashville, Chattanooga, Cookeville, Jackson, Knoxville and Memphis).

(4) The committee met on November 18, 1980 and reviewed the applications received. The committee decided to make seven (7) awards for a total of \$379.00.

(5) We are recommending that the following awards to be made at this time:

Ms. Linda Barrett Science Teacher (Two students not named)	Central High School Camden, TN 38320	\$ 38.00
Patrick Cummings c/o Mr. Ashley Smith	Cleveland High School Cleveland, TN 37311	\$100.00
George Gray c/o Mr. Charles Lee	Stewart Cty. High School Dover, Tennessee 37058	\$ 32.00
Kim Mullins c/o Mr. Charles Lee	Stewart Cty. High School Dover, Tennessee 37058	\$ 34.00
Karen Parker c/o Mr. Ashley Smith	Cleveland High School Cleveland, TN 37311	\$100.00
Barry Preston c/o Dr. Linda Cain	The Webb School of Knoxville Route 21 Knoxville, TN 37923	\$ 50.00
Bruce Saunders c/o Mr. Charles Lee	Stewart Cty. High School Dover, Tennessee 37058	\$ 25.00
		<u>\$379.00</u>

The Committee's report was accepted.

7. Resolutions Committee. Report to be submitted at Business Meeting.

#### OLD BUSINESS

1. At the April 1980 Executive Committee Meeting, President Chandler appointed Dr. Wishart and Dr. Pafford as a committee to develop guidelines for the selection process for Distinguished Teachers and to report at the next Executive Committee Meeting. The report recommended that the current method, i.e. nominations solicited by John Bennett and Roger Bynum, be maintained. Additional input from science supervisors and the VSP program will be solicited.

#### NEW BUSINESS

1. Efforts have been made by Dr. Wilson and followed up by Dr. Chandler to obtain additional funds for the Academy from the Tennessee Higher Education Commission; however, no assistance is likely. Dr. Wilson was commended by the Executive Committee for his efforts to obtain additional funds from various sources for the Academy.

2. The Annual Meeting has been confirmed for Austin Peay State University, November 20-21, 1981. Invitations have been accepted from UT-Martin in 1982 and Volunteer State in 1983. An invitation for the 1984 meeting will be sought from UT-Knoxville.

3. A press release was read announcing the creation of a new AAAS Award for Scientific Freedom and Responsibility. The announcement will be read at the Business Meeting.

4. Dr. Wishart proposed that a resolution to recommend additional science and math as basic requirements in secondary schools be presented to the membership at the Business Meeting.

The meeting was adjourned at 9:50 p.m. E.S.T.

## THE NINETIETH MEETING OF THE TENNESSEE ACADEMY OF SCIENCE

November 21-22, 1980

### OAK RIDGE NATIONAL LABORATORY

#### ANNUAL BUSINESS MEETING

November, 1980

The annual meeting of the Tennessee Academy of Science, Inc., was held November 21-22, 1980, at Oak Ridge National Laboratory, Oak Ridge, Tennessee. Dr. Richard J. Raridon was Chairman of the Local Arrangements Committee; Dr. A. Paul Wishart, Professor of Science Education at the University of Tennessee, Knoxville, was Program Chairman.

The General Session was held in Central Auditorium, Bldg. 4500-N, ORNL, on Friday morning, November 21, beginning at 9:30 a.m. E.S.T. The Program Chairman, Dr. A. Paul Wishart, chaired the session, and the welcome was given by Dr. Herman Postma, Director of ORNL. The theme of the session was "Atmosphere, Energy, and the 1980's." Speakers were David S. Shriner, ORNL; Gregg Marland, Institute for Energy Analysis; and Ari N. Patrinos and Robert L. Miller, ORNL. Section meetings were held Friday afternoon; 65 papers were presented as listed in the program. The Annual Business Meeting was held in the Central Auditorium, Bldg. 4500-N, ORNL, at 5:00 p.m. E.S.T.

The Annual Banquet was held at the Holiday Inn, Oak Ridge, beginning at 7:00 p.m. E.S.T. Friday evening. President Clay M. Chandler presided, and the address was given by H. G. MacPherson, Institute for Energy Analysis. The address was "A Prudent Energy Path."

A Workshop on Tennessee Flora—A Review of Rare Plants was held Saturday morning in the Energy Room, Holiday Inn. Paul Somers, Tennessee Heritage Program, presided.

The Collegiate Division held its meeting on Saturday morning at 9:00 a.m. E.S.T. at the Museum of Science and Energy. Dr. Richard J. Raridon, Director of the Collegiate Division, presided and five papers were presented by college students.

The Annual Business Meeting of the Tennessee Academy of Science, Inc., was called to order by President Clay Chandler at 5:00 p.m. E.S.T. in the Central Auditorium, Bldg. 4500-N, Oak Ridge National Laboratory, Oak Ridge, Tennessee, on November 21, 1980. The President determined that a quorum was present.

The reports of the Secretary, Treasurer, Editor, and Directors of the three educational programs were similar to those presented the previous evening at the Executive Committee Meeting. All reports were approved by passed motions and will be recorded in the Minutes.

The Secretary reported individuals who had applied for membership to the Academy in 1979-80. A motion to accept the new members was passed.

The Secretary read the report of the Auditing Committee, Membership Committee, and Research Committee. The reports were presented the previous evening at the Executive Committee Meeting. All reports were approved by passed motions and will be recorded in the Minutes.

The Secretary read the names of the Fellows nominees presented to the membership by the Executive Committee. A motion was passed that the nominees be elected Fellows of the Academy.

The Chairman of the Necrology Committee, Wayne Chester, presented the names of members of the Academy who had passed away: Helen L. Ward, Frank Boyer, Mary Ward Tarter, Isabel Tipton, and Warren McAlister Deacon. Dr. Chester

asked the audience to stand in tribute. A motion was passed to accept the report.

Dr. James Caponetti presented the report of the Nominating Committee. The President asked for further nominations from the floor; there were none. A motion was passed to accept the nominees, and the Secretary was instructed to cast one vote which would represent the unanimous election of A. Paul Wishart as President, S. K. Ballal as President-Elect, Diane R. Nelson as Secretary, and Robert L. Wilson as Treasurer.

The Chairman of the Resolutions Committee, Dr. George W. Griffith, presented the following resolutions:

**RESOLUTION OF APPRECIATION**

WHEREAS, the Tennessee Academy of Sciences, including the Collegiate Division, is enjoying a most pleasant, profitable, and well-organized series of meetings at the ~~Oak Ridge National Laboratory~~ <sup>UTM</sup> Laboratory, and

WHEREAS, the success of these meetings has resulted mainly from the efforts of the officers of the Academy; the Chairmen of the respective sections; the Local Arrangements Committee representing the Oak Ridge National Laboratory and the University of Tennessee at Knoxville, Dr. Richard Raridon, Chairman; Dr. David Fields and Dr. George Griffith, committee members; Dr. Paul Wishart, Program Chairman; Jo Henderson, Oak Ridge High School; Dr. Bill Gude, ORNL, Biology Division; from the recognition given the meetings by the press, television and radio stations, and from the generous hospitality of the host institution, the Oak Ridge National Laboratory and its director, Dr. Herman Postma.

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

**RESOLUTION ON SCIENCE AND MATHEMATICS  
EDUCATION IN TENNESSEE PUBLIC SECONDARY SCHOOLS**

WHEREAS, Tennessee minimum requirements for high school graduation mandates only one year of mathematics in grades 9-12 and one year of science for grades 9-12, and

WHEREAS, increasing demands are placed on individuals in our scientific and technological society to use skills and comprehend the basic knowledge of scientific and technological society to use skills and comprehend the basic knowledge of scientific and mathematical principles in order to cope with everyday problems, and

WHEREAS, there is mounting evidence that large numbers of high school graduates are deficient in their ability to use mathematics and science in their vocations and in their ability to make critical decisions needed by an informed population,

BE IT RESOLVED, therefore, that the Tennessee State Board of Education and other appropriate agencies be requested to take the actions necessary to require for graduation two years of mathematics for students in grades 9-12 and two years of science for students in grades 9-12.

All resolutions were accepted by a passed motion.

**OLD BUSINESS**

1. Abstracts and results of section elections should be given to the Secretary or another member of the Executive Committee.

**NEW BUSINESS**

1. The press release announcing the creation of the new AAAS award for Scientific Freedom and Responsibility was read to the membership.

2. Section Chairpersons are requested to send receipts for abstracts to the authors.

3. Dr. Chandler was applauded by the membership in appreciation of his contributions to the Academy as President.

4. Other societies will be invited to participate during the annual meeting of the Academy.

The meeting was adjourned at 5:35 p.m. E.S.T.

**TENNESSEE ACADEMY OF SCIENCE  
OPERATIONS ACCOUNT  
TREASURER'S REPORT**

JULY 1, 1979 THROUGH JUNE 30, 1980

Cash in Pioneer Bank, July 1, 1979	\$ 841.04		
Less: Outstanding checks, July 1, 1979	211.66		
Cash Balance, per books, July 1, 1979	\$ 629.38		
Cash Receipts:			
Membership Dues	\$ 3,612.00		
Journal Subscriptions	1,441.00		
Registration Fees & Exhibitors	1,438.00		
Tennessee Department of Education	15,000.00		
AAAS	250.00		
From Savings Account	1,475.53		
Misc. contributions and			
Journal Sales	103.68	\$23,320.21	
Total Cash Available		\$23,949.59	
Cash Disbursements:			
President's Office	\$ 21.95		
Treasurer's Office	1,649.81		
Secretary's Office	254.25		
Editor's Office	3,400.00		
Journal (Printing and Mailing)	6,875.06		
Annual Meeting Expenses	3,042.20		
AAS	161.52		
Dues and Refund	80.60		
Programs of the Academy:			
Visiting Scientist	\$ 3,170.00		
Junior Academy	3,000.00		
Collegiate Division	1,500.00		
Grants	200.00	7,870.00	\$23,355.39
Cash Balance, per books, June 30, 1980	\$ 594.20		
Add: Outstanding checks, June 30, 1980	286.19		
Cash Balance, per Bank, June 30, 1980	\$ 880.39		
Savings Account in Chattanooga Federal Savings and			
Loan, on June 30, 1980		\$10,000.00	
Interest Earned on Savings Account at June 30, 1980		657.87	
Savings Account—Chattanooga Federal			
at June 30, 1980		\$10,657.87	

Rayford J. McLaurin  
Accountant  
Chattanooga, Tennessee  
November 12, 1980

**REPORT OF THE AUDITOR  
NOVEMBER 12, 1980**

To: Executive Committee

Tennessee Academy of Science

I have examined the statement of Cash Receipts and Disbursements, Operations Account, for the fiscal year ended, June 30, 1980. My examination included such test of the accounting records and such other procedures as I considered necessary in the circumstances.

In my opinion the above mentioned statement presents fairly the cash receipts and disbursements, Operations Account, for the fiscal year ended June 30, 1980.

Sincerely,

Rayford J. McLaurin  
Accountant  
Chattanooga, Tennessee