

PROCEEDINGS OF THE TENNESSEE ACADEMY OF SCIENCE 1987

DIANE R. NELSON, SECRETARY TAS
East Tennessee State University

EXECUTIVE COMMITTEE MEETING

April 24, 1987

The Executive Committee meeting of the Tennessee Academy of Science was called to order by President Gus Tomlinson at 7:10 p.m. CST in Room 320, Tennessee State University, Downtown Campus Building, Nashville, on April 24, 1987. Members present were Gus Tomlinson, president; David Yarbrough, past-president; David Fields, president-elect; Diane R. Nelson, secretary; Libby Workman, *Journal* editor; Richard J. Raridon, director of the Collegiate Division; Yvonne Sanders, program manager of the Visiting Scientist Program; Benjamin Stone and David Kesler, members-at-large; Geraldine Farmer, State Department of Education.

The minutes of the November 1986 Executive Committee meeting and the annual business meeting were published in the April 1987 issue of the *Journal* and copies were distributed to the Executive Committee by mail. The minutes were approved as distributed by a motion passed unanimously.

The treasurer's report, published in the April 1987 issue of the *Journal*, was presented by Benjamin Stone. Discussion was postponed until the budget proposal was considered under New Business.

The editor of the *Journal*, Libby Workman, reported that the April issue of the *Journal* was in press and would be mailed near the end of April. Currently there are 9 manuscripts in review, 10 have been accepted, and 17 are inactive. Inactive manuscripts will be returned to the authors with a request for resubmission. Dr. Tomlinson reported that he and Dr. Corgan, Austin Peay State University, contacted the Tennessee Historical Society about continuing its role as a repository for the records of the academy. Official records and back copies of the *Journal* have been deposited with the State Library and Archives.

The program manager of the Visiting Scientist Program, Yvonne Sanders, representing Dr. Wayne Stevenson, director, presented the Visiting Scientist Program report for the academic year 1986-87. A summary of the program activities is presented below:

SUMMARY OF ACADEMIC YEAR 1986-87 PROGRAM ACTIVITIES (AS OF APRIL 21, 1987)

Number of Scientists on the Roster	152
Number of Visits Requested	91
Number of Visits Completed	62
Number Expected to be Completed by 6-30-87	80
Number of Visits Cancelled	3
Number of Visits Declined	8
Number of Students Contacted	6001
Number of Teachers Contacted	158
Number of Classes Contacted	114

"The expanded 1986-87 program shows a 50% increase in roster membership. A new program brochure was developed, and 3000 copies were printed and distributed to all junior and senior high schools in Tennessee."

The six-year summary of Visiting Scientists activities was also presented. The report was accepted, and the Executive Committee expressed its appreciation to Ms. Sanders and Dr. Stevenson for their excellent work and contributions to the academy.

The director of the Collegiate Division, Richard J. Raridon, reported that the spring meetings were underway. David Kesler, Rhodes College, distributed copies of the West Tennessee regional meeting program to the Executive Committee. Dr. Raridon requested that a notice that the Collegiate Division will present papers in the regular sections at the annual meeting be included in the Call for Papers. The report was accepted.

Dr. Raridon, AAAS representative, presented the following report:

"I represented TAS at the AAAS meeting in Chicago February 14-18, 1987. I attended the Section Y business meeting. TAS is now affiliated with Section Y which is the General Science and Engineering Section. Section X changed its emphasis to Societal Impacts and most of the Academies of Science have switched to Y. I also attended the business meeting of the National Association of Academies of Science. NAAS did not sponsor a session this year since its proposal was turned down.

"I looked over the poster papers presented by the Junior Academy students. It would be nice if we could get one or two students to represent Tennessee now that the meeting is back in the January-March time slot."

The director of the Junior Academy, William Pafford, sent the following report:

"The 1987 spring meeting is scheduled for Friday, April 24, at Pearl Cohn Comprehensive High School in Nashville. A total of twenty students have been invited to present their research papers. We have received thirty-seven papers this year. They were submitted from seven different schools. A representative of the Tennessee State Department of Education is scheduled to be with us at the April 24 meeting. At that time a certificate will be presented to an outstanding science teacher from each of the three grand divisions of the state. The three teachers to be recognized are as follows: East Tennessee—Ms. Betty C. Davis, University School, Johnson City; Middle Tennessee—Ms. Dorothy J. Hodges, Hume Fogg Academic High School, Nashville; and West Tennessee—Ms. Patricia Poole, Trezevant High School, Memphis."

The director's report was accepted.

The representative of the State Department of Education, Geraldine Farmer, reported that the new administration under Governor McWherter must be informed of Tennessee Academy of Science activities that especially relate to K-12. Reports should be sent to the State Department of Education. Ms. Farmer also requested input from the Executive Committee on evaluation procedures for the Distinguished Teachers Award, and she suggested that one of the three judges be a member of TAS and appointed by the Executive Committee. The secretary, Diane R. Nelson, will ask Betty C. Davis, who was a 1987 recipient of the award and who is an active member of the academy, to represent the academy as a judge for 1988. At the November meeting, the chairperson of the Mathematics and Science Teachers Section will appoint or elect a member of the academy to serve as a judge for subsequent years.

Dr. David Fields, president-elect and program chairman, proposed an agenda for the 1987 annual meeting. One keynote speaker will open the morning general session, followed by the business meeting. After the banquet and banquet speaker, sectional elections and presentations will begin.

OLD BUSINESS

The secretary, Diane R. Nelson, reminded the Executive Committee of the necessity of appointing a "Meeting Coordinator" as an assistant to the secretary and the president in organizing the annual meeting. David Fields agreed to act as the coordinator for 1987, in addition to serving as president-elect (program chairperson). Richard Raridon will assist Dr. Fields and will serve as coordinator for 1988. The Executive Committee agreed to identify and appoint a person to fill the position and to attend future

Executive Committee meetings. A line will be added to the budget to cover the expenses involved.

A motion was passed that it was the responsibility of the president to contact other professional societies that have chapters in the state and to encourage them to interact with TAS. Dr. Tomlinson was requested to contact these societies, including the Science Association of Tennessee, Tennessee Psychology Association, and Tennessee American Foresters.

A motion was passed for Dr. Benjamin Stone to contact biology chairpersons in the state and encourage them to meet with the academy in November to discuss common problems. The meeting will be scheduled in the program.

A motion was passed for Dr. Fields to send a letter to section chairpersons, encouraging them to recruit new TAS members by soliciting papers for the annual meeting.

Dr. Tomlinson reported that no action had been taken on the membership recruiting brochure authorized by the Executive Committee at the November 1986 meeting.

The Executive Committee nominated Tennesseans who have made significant contributions to science to write an autobiographical article for the *Journal*, describing their philosophy and experiences in science. The issue of the *Journal* will be dedicated to that person. The editor of the *Journal* will invite the person to write the article.

The academy will meet at Jackson State Community College in 1987, Tennessee Tech in 1988, Tennessee State in 1989, and UT Chattanooga in 1990 (the 100th meeting of the academy).

Dr. Stone presented the following summary of membership data compiled by Dr. Scott, treasurer:

BREAKDOWN OF MEMBERSHIP CATEGORIES

Total Memberships in File	887
Inactive	198
Active	689
Active Memberships	689
Regular	569
Individuals	437
Libraries	132
Students	49
Retired	43
Life Members	28

GEOGRAPHICAL DISTRIBUTION

Foreign Memberships	20
Libraries	18
Individuals	2
Domestic Memberships	867
Tennessee	694
All other states	173

NEW BUSINESS

Dr. Stone requested that Dr. Tomlinson and future presidents bring to the Executive Committee meeting a list of the names, addresses, and telephone numbers of the members of the Executive Committee.

A motion was passed to award the Distinguished Science Teachers \$200 per individual for 1988. The award will be announced in the call for nominations.

A motion was passed that the meeting coordinator (David Fields) will solicit/purchase plastic portfolios with the TAS logo for the 1987 annual meeting, the cost not to exceed \$300. Registration fees will be raised to cover increased meeting expenses.

The need for a statistics editor was discussed.

A motion was passed to discuss at the November meeting the possibility of purchasing a computer for the office of the treasurer.

Dr. Benjamin Stone stated that this was his last Executive Committee meeting as member-at-large and he had enjoyed working with the organization. Appreciation was expressed to Dr. Stone for his service on the Executive Committee and his continued support and efforts on behalf of the academy. The treasurer's report and the following budget for 1987-88 were adopted.

CASH BALANCE—JULY 1, 1986	27,270.64
RECEIPTS	
STATE OF TENNESSEE	19,000.00
MEMBERSHIP DUES	6,238.00
LIBRARY SUBSCRIPTIONS	1,965.00
INTEREST EARNED	1,498.49
JOURNAL PAGE CHARGES	745.00
CONTRIBUTIONS	431.00
REGISTRATION AND BANQUET FEES	
	1,686.00
EXHIBITOR'S FEES	250.00
AAAS AWARD	900.00
TOTAL RECEIPTS	32,713.49
TOTAL CASH AVAILABLE	59,984.13

DISBURSEMENTS

JOURNAL PRINTING COSTS	7,515.42
VISITING SCIENTIST PROGRAM	4,998.55
TENNESSEE JR.	
ACADEMY SCIENCE	1,594.08
ANNUAL MEETING	1,452.89
BOARD MEETING EXPENSES	112.46
TREASURER'S EXPENSES	1,417.29
PRESIDENT'S EXPENSES	334.60
STUDENT RESEARCH GRANTS	1,833.00
COLLEGIATE DIVISION EXPENSES	300.00
SECRETARY'S EXPENSES	276.09

MISC. (NAAS DUES AND TAS CHARTER)

	105.00
TOTAL DISBURSEMENTS	19,939.38
CASH BALANCE	
MARCH 31, 1987	40,044.75
RECEIPTS	32,713.49
DISBURSEMENTS	19,939.38
CASH INCREASE	12,774.11
CASH BALANCE – JULY 1, 1986	27,270.64
CASH BALANCE – MARCH 31, 1987	40,044.75
BREAKDOWN OF HOLDINGS	
APSU ACCOUNT	147.12
PRIMARY CHECKING ACCT, 1ST FED	
	4,458.18
SAVINGS ACCOUNT, 1ST FEDERAL	
	35,439.45
TOTAL HOLDINGS AS OF MAR. 31, 1987	40,044.75

PROJECTED DISBURSEMENTS 1987-1988

PRESIDENT'S OFFICE	300.00
MEETING COORDINATOR	100.00
SECRETARY'S OFFICE	300.00
TREASURER'S OFFICE	1,600.00
JR. ACADEMY OF SCIENCE	4,600.00
VISITING SCIENTIST PROGRAM	4,600.00
JOURNAL	16,000.00
RESEARCH GRANT (AAAS)	1,000.00
ANNUAL MEETING	1,500.00
COLLEGIATE DIVISION	1,000.00
BOARD MEETING EXPENSES	1,200.00
AAAS	300.00
TOTAL BUDGET	32,400.00

The meeting was adjourned at 10:00 p.m.

EXECUTIVE COMMITTEE MEETING

November 19, 1987

The Local Arrangements Committee from Jackson State Community College provided dinner at 6:00 p.m. CST for the Executive Committee in the President's Conference Room, JSCC Student Center. Appreciation was expressed to Jo Alred, Frank Dodson, John Koons, and Lori Buckley, members of the Local Arrangements Committee.

The Executive Committee meeting of the Tennessee Academy of Science was called to order at 6:50 p.m. CST by President Gus Tomlinson. Members present were Gus Tomlinson, president; David Fields, president-elect;

David Yarbrough, past-president; Floyd Scott, treasurer; Libby Workman, editor; Benjamin P. Stone and David Kesler, members-at-large; Wayne Stevenson and Yvonne Sanders, Visiting Scientist Program. In the absence of the secretary, Benjamin P. Stone recorded the minutes.

The secretary, Diane R. Nelson, had mailed printed copies of the minutes of the April 1987 Executive Committee meeting. A motion to accept the minutes as distributed was approved unanimously.

The treasurer, Floyd Scott, presented his audited report, which appears elsewhere in these proceedings along with the report of the auditor. Both reports were accepted by a motion passed unanimously. State funds have not yet been received, but the request has been made.

The editor, Libby Workman, reported that 12 manuscripts were in review, 4 were in the author revision stage, and 5 were accepted for publication. The editor discussed the archival materials submitted by Dr. Corgan of Austin Peay State University (455 pages). Dr. Corgan's request to publish this as a book was not accepted since the cost would be prohibitive. There was a general consensus of the importance of this material. A motion was passed unanimously that the material be organized into short notes and published in the *Journal* where appropriate at the editor's discretion. The material will be bound and deposited in a university library. The editor also reported that one individual contacted about the special memorial edition had declined and another person has not responded. A letter from a Vanderbilt group regarding publishing review articles on Free Electron Lasers was discussed. The Executive Committee decided to consider this on a peer review basis, with the editor determining whether the articles warranted publication. Dr. Floyd Scott related concerns by members on the quality of reprints. A motion was passed unanimously to direct the editor to request that the printer provide quality reprints to authors.

The editor's report was accepted.

The director of the Junior Academy, William N. Pafford, sent the following report:

"The 1987 spring meeting of the Tennessee Junior Academy of Science was held at Pearl-Cohn High School in Nashville, on April 24, 1987. A total of thirty-seven papers were submitted by high school students across the state, and twenty of these students were invited to present their papers at the annual meeting. Abstracts of all papers presented have been published in the annual *Handbook and Transactions* of the Tennessee Junior Academy of Science, with the top five being edited and published in their entirety. The two highest-ranked presenters were Ms. Angela Malin, Camden Central High School, Camden, and Mr. Howard Wayt, Brentwood Academy, Brentwood. They will receive a year's subscription to

Science magazine.

"Three outstanding high school teachers were recognized at the annual meeting. They were Ms. Patricia Poole, Trezevant High School, Memphis (West Tennessee); Ms. Dorothy J. Hodges, Hume Fogg Academic High School, Nashville (Middle Tennessee); and Ms. Betty C. Davis, University School, Johnson City (East Tennessee). A representative of the Tennessee State Department of Education presented a framed certificate to each teacher. Dr. Geraldine Farmer, science consultant with the Department of Education was in attendance also and congratulated the teachers.

"Total expenditures for 1986-87 were approximately \$3200. It is anticipated that 1987-88 expenditures will be somewhat greater, due to publication of a more lengthy *Handbook and Transactions* (in press) than in recent years.

"The 1988 spring meeting is scheduled for April 22 in Nashville. We have been invited to return to Pearl-Cohn High School."

The director's report was accepted.

An invitation to host the April 1988 Junior Academy meeting was received from Vanderbilt University as well as from Pearl-Cohn High School. A motion was passed unanimously to return to Pearl-Cohn High School.

The director of the Collegiate Division, Richard J. Raridon, sent the following report:

"Three regional Collegiate Division meetings were held during the spring of 1987. The western meeting was at Rhodes College on May 2. Seventeen papers were presented by students from four schools. The middle meeting was held at Tennessee Technological University on April 18 and nineteen papers were presented. The eastern meeting was held on Friday afternoon, April 11, starting at 4 p.m. This format seemed to be well received as thirteen papers were presented by students representing three schools. Expenses for the meetings were well within the budget. Thanks are due the regional sponsors, Dr. Charles J. Biggers of Memphis State University, Dr. James X. Corgan of Austin Peay State University and Dr. Robert G. Ziegler of Lincoln Memorial University."

The director's report was accepted.

As delegate to the National Association of Academies of Science and to Section Y of AAAS, Dr. Raridon was authorized \$300 for travel expenses to attend the annual AAAS meeting.

The director of the Visiting Scientist Program, Wayne Stevenson, presented the following report:

"The Tennessee Visiting Scientist Program is administered by Oak Ridge Associated Universities. The program supports visits by scientists, engineers, physicians, and other related professionals to junior and senior high schools throughout the state. The expanded 1986-87

programs shows a 50 percent increase in roster membership and has attracted the participation of members of Sigma Xi Scientific Society and the Tennessee Mathematics and Computer Science Foundation. The 1986-87 program has also experienced an increased level of participation from the University of Tennessee, Knoxville, and Oak Ridge National Laboratory.

Promotion and recruitment efforts included the development of a new program roster that was distributed to all junior and senior high schools within Tennessee. Combined with promotional activities for other educational programs administered by Oak Ridge Associated Universities, announcements were carried in educational newsletters, newspapers, and fliers. Presentations were made and information was distributed during inservice meetings for metro Memphis, metro Nashville, Knoxville, and Kingsport science teachers. The program was also promoted at the Tennessee Science Teachers Association and other statewide meetings and conferences for teachers and principals.

The following is a summary of academic year 1986-87 program activities:

Number of Scientists on the Roster	152
Number of Visits Requested	91
Number of Visits Completed	63
Number of Visits Cancelled	7
Number of Visits Declined	21
Number of Students Contacted	6903
Number of Teachers Contacted	169
Number of Classes Contacted	132

The director's report was accepted.

Copies of the annual report for academic year 1986-87 and the progress report for academic year 1987-88 (September-October) were distributed to members of the Executive Committee.

The Executive Committee expressed its appreciation to Ms. Yvonne Sanders, program manager, and to Dr. Stevenson for their excellent work and creative contributions to this program.

Dr. Geraldine Farmer, State Department of Education, submitted the following report:

"Outstanding secondary science teachers were selected to be recognized at the 1987 annual meeting of the Tennessee Junior Academy of Science. A news release, along with a group photograph of the participating students, was sent to local newspapers. A copy of the students' photograph was sent to each sponsoring teacher. The photographs were donated by the Department of Education.

"Mrs. Betty Davis has agreed to assist in the selection process for the 1988 event. She will assist in selecting

scientists and educators to be utilized in the application review process. It is expected that more teachers will apply since a monetary award of \$200 will be presented to each of the three teachers. The application and selection process is expected to be completed by April 1, 1987."

President Tomlinson presented the standing committee reports from the respective chairpersons as follows:

Auditing Committee. The chairperson, Eugene A. Kline, submitted the following letter from the auditor, James F. McKinnie:

"I have examined the receipts and disbursements records of the Tennessee Academy of Science for the fiscal year ended June 30, 1987, and, in my opinion, the attached Cash Receipts and Disbursements statement correctly reflects the cash position of the organization at June 30, 1987. The entire accounting system appears to be well maintained.

"I also prepared a Return of Organization Exempt from Income Tax, including a Schedule A. This Form 990 must be filed with the Internal Revenue Service no later than November 15, 1987."

Fellows Committee. The chairperson, S.K. Ballal, sent his report and after discussion a motion was passed to present the names of the following individuals to the membership at the annual business meeting for approval: Drs. Anthony Z. Cole, Richard Troelstrup, John T. Mason, III, and David Kesler.

Membership Committee. The chairperson, Thomas E. Byrne sent the following report:

"The membership committee has taken an active role to capitalize on the annual meeting as a vehicle to contact and recruit new members. All members of the membership committee have been contacted and were provided with printed brochures that announce the annual meeting.

"The chairman personally contacted by telephone many committee members asking for diligent efforts to recruit potential members. The chairman also contacted, again by telephone, many former members asking them to renew membership in the Tennessee Academy of Science. The results of these efforts have not been disclosed to the membership committee."

The committee's report was accepted.

The treasurer reported 75 new members were recruited, and their names will be presented for acceptance by the membership at the business meeting.

Necrology Committee. The chairperson, Albert L. Myers, reported that there were no deaths among the membership of TAS during this year.

Nominating Committee. The chairperson, David Yarbrough, presented the following proposed slate of officers for next year:

President:	Dr. David Fields, Oak Ridge National Laboratory
President-Elect:	Dr. Bernard W. Benson, UT Chattanooga
Secretary:	Dr. Diane R. Nelson East Tennessee State University
Treasurer:	Dr. A. Floyd Scott Austin Peay State University

The proposed slate of officers was approved unanimously and will be presented to the membership at the annual business meeting.

Research Committee. The chairperson, Prem Kahlon, will submit a report at the annual business meeting.

Resolutions Committee. The chairperson, Betty C. Davis, will present the resolutions at the annual business meeting.

OLD BUSINESS

The purchase of a computer for the treasurer's office from academy funds was discussed. A motion was passed unanimously to authorize Dr. Scott to investigate and determine the type of computer system and software required to support the treasurer's office. Dr. Scott will report the information to President David Fields, Past-President Gus Tomlinson, and President-Elect Bernard Benson for approval to purchase.

The duties of the meeting coordinator will be clarified during the spring Executive Committee meeting. Dr. Raridon and Dr. Fields will coordinate the 1988 annual meeting, with the program chairperson (president-elect).

NEW BUSINESS

A motion was passed unanimously requesting the president to select a committee of key individuals in the state to approach institutions and determine how the academy may better serve the needs of the scientific community and the state.

The academy will meet at Tennessee Tech in 1988, Tennessee State in 1989, and UT Chattanooga in 1990 (the 100th meeting of the academy).

The meeting was adjourned at 9:55 p.m. CST.

**THE NINETY-SEVENTH MEETING
OF THE
TENNESSEE ACADEMY OF SCIENCE**
November 19-20, 1987
Jackson State Community College

The annual meeting of the Tennessee Academy of Science, Inc., was held November 19-20, 1987, at

Jackson State Community College, Jackson. Jo Alred was chairperson of local arrangements. Dr. David Fields, Oak Ridge National Laboratory, was program chairperson.

The Executive Committee meeting was held in the President's Conference Room, JSCC Student Center, on Thursday, November 19, 1987. The general session, luncheon, and section meetings were held on Friday, November 20. The general session was held in the Science Auditorium beginning at 9:00 a.m., with Dr. David Fields presiding. The academy was welcomed by Dr. Walter Nelms, president, Jackson State Community College. Dr. Alfred Wohlpart, Oak Ridge Associated Universities, spoke on "Research Opportunities at Federal R & D Facilities." The keynote speaker was Nobel Laureate Dr. Stanley Cohen, Vanderbilt University. His topic was "Epidermal Growth Factor and its Receptor." A press conference for Dr. Cohen was held in the President's Conference Room after the general session. The annual business meeting followed Dr. Cohen's address, beginning at 10:30 a.m., with President Gus Tomlinson presiding. The Biology Department/ Division chairpersons met in the Science Building, Room 202, at 11:00 a.m. The meeting was organized and chaired by Dr. Benjamin P. Stone, Austin Peay State University.

The annual luncheon was held in Room 23 of the Student Center, beginning at 11:30 a.m., with President Gus Tomlinson presiding. Dr. Ada M. Fisher, Y-12 Plant at Oak Ridge, spoke on "Opportunities for Change in Tennessee Science Education and Research." Section meetings were held Friday afternoon as listed in the program. Collegiate division papers were presented in appropriate sectional meetings.

ANNUAL BUSINESS MEETING

November 20, 1987

The annual business meeting of the Tennessee Academy of Science, Inc., was called to order by President Gus Tomlinson at 10:30 a.m. CST in the Science Auditorium, Jackson State Community College, after Dr. Stanley Cohen's keynote address. The president determined 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. The reports were approved and will be recorded in the minutes.

The report of the Auditing Committee, chaired by Eugene Kline, was presented. The names of the Fellows nominees, approved by the Executive

Committee upon recommendation by the Fellows Committee, chaired by S.K. Ballal, were presented. A motion was passed that Dr. Anthony Z. Cole, Dr. Richard

Troelstrup, Dr. John T. Mason III, and Dr. David Kesler be elected Fellows of the academy. The report of the Membership Committee, chaired by Tom Byrne, was presented. The treasurer distributed a list of individuals who had applied for membership in the academy in 1986-87; a motion to accept the new members was passed. The chairperson of the Necrology Committee, Albert Myers, reported no known deaths among the membership.

Dr. Prem Kahlon, Research Committee chairperson, presented the following report:

"The Research Committee submitted a proposal requesting \$1000 from AAAS for 1987-88 school year. In response to this request the academy received a sum of \$1000 for this purpose from AAAS. In addition to this amount, the academy had set aside a sum of \$1000 from its own resources for the purposes of encouraging secondary school students' science projects. Unfortunately, the announcement regarding the availability of these funds in the academy *Journal* this year came rather late; however, announcements were sent to all the science teachers who had sought funds in previous years.

"The deadline for receiving the applications was November 16, 1987. The committee received sixteen (16) applications from four schools requesting \$5,181.64. The committee recommended awards for fourteen (14) students for a total of \$1,853.91 at its meeting on November 20, 1987. The chairman of the Research Committee received many inquiries from high school teachers regarding the availability of funds and the deadline for applications, however, only a small number of schools actually sent applications.

"The committee wishes to commend Miss Linda Korn of Haywood High School, Brownsville, for winning three awards at the 1987 International Science and Engineering Fair in San Juan. Linda was awarded \$125 by the academy in 1986 for her project entitled, "Removal of Pollutants by Household Plants." This project won her many citations and awards in regional, national and international science fairs. This kind of student achievement reinforces our commitment to encourage and support secondary schools students in their endeavor to pursue science projects."

Dr. David Yarbrough presented the report of the Nominating Committee and 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 David Fields as president, Bernard Benson as president-elect, Diane R. Nelson as secretary, and Floyd Scott as treasurer.

Ms. Betty C. Davis, chairperson of the Resolutions Committee, presented the following resolutions, which were accepted:

RESOLUTION OF APPRECIATION

"WHEREAS, the Tennessee Academy of Science, including the Collegiate Division, is enjoying a most pleasant, profitable and well organized series of meetings at Jackson State Community College and

WHEREAS, the success of these meetings has resulted mainly from the efforts of the officers of the respective sections; the Local Arrangements Committee representing Jackson State Community College, composed of Frank Dodson, John Koons, Lori Buckley, and Ms. Jo Alred, chairperson; the program chairperson, Dr. David Fields; from the recognition given the meetings by the press, television, and radio stations; and from the general hospitality of the host institution, Jackson State Community College and its president, Dr. Walter Nelms, and

WHEREAS, the academy is especially thankful for the contributions of Dr. Stanley Cohen and for the continued support from the State of Tennessee,

BE IT RESOLVED, therefore, that the Tennessee Academy of Science present Dr. Stanley Cohen with a Life Membership and that it express its sincere appreciation to these and all others who have contributed to the success of these meetings."

NEW BUSINESS

The Executive Committee will identify and appoint a person to serve as "Meeting Coordinator," as an assistant to the secretary and the president in organizing the annual meeting. Members may volunteer or submit nominations for the position.

The academy will meet at Tennessee Tech in 1988, Tennessee State in 1989, and UT Chattanooga in 1990 (100th meeting of the academy).

The meeting was adjourned at 11:00 a.m. CST.

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

November 20, 1987

A. Floyd Scott, *Treasurer*

CASH BALANCE — JULY 1, 1987 31,525.23

RECEIPTS

AAS AWARD 1,000.00	
MEMBERSHIP DUES	3,361.00
LIBRARY SUBSCRIPTIONS	1,455.00
INTEREST EARNED	535.77
JOURNAL PAGE CHARGES	510.00
CONTRIBUTIONS	351.00
REGISTRATION AND LUNCHEON FEES	596.00
JOURNAL SALES	20.00
TOTAL RECEIPTS	7,828.77
TOTAL CASH AVAILABLE	39,354.00

DISBURSEMENT

JOURNAL PRINTING COSTS	3,676.26
VISITING SCIENTIST PROGRAM TENNESSEE JR.	0.00
ACADEMY SCIENCE	444.29
ANNUAL MEETING	803.50
BOARD MEETING EXPENSES	25.00
TREASURER'S EXPENSES	904.85
PRESIDENT'S EXPENSES	471.75
STUDENT RESEARCH GRANTS	0.00
COLLEGIATE DIVISION EXPENSES	0.00
SECRETARY'S EXPENSES	306.67
TOTAL DISBURSEMENTS	6,632.32

CASH BALANCE

NOVEMBER 20, 1987 32,721.68

RECEIPTS 7,828.77

DISBURSEMENTS 6,632.32

CASH INCREASE 1,196.45

CASH BALANCE

JULY 1, 1987 31,525.23

CASH BALANCE

NOVEMBER 15, 1987 32,721.68

BREAKDOWN OF HOLDINGS

APSU ACCOUNT	231.44
PRIMARY CHECKING ACCT, 1ST FED	
	2,544.19
SAVINGS ACCOUNT, 1ST FED	29,946.05
TOTAL HOLDINGS	
AS OF NOV. 15, 1987	32,721.68