THE EIGHTIETH MEETING OF THE TENNESSEE ACADEMY
OF SCIENCE
NOVEMBER 20-21, 1970
SOUTHWESTERN AT MEMPHIS

The eightieth meeting of the Tennessee Academy of Science was held November 20-21, 1970, at Southwestern at Memphis, Memphis, Tennessee. Dr. Clinton L. Baker, Professor of Biology at Southwestern, was Chairman of the Local Arrangements Committee, and Dr. Richard J. Raridon, Oak Ridge National Laboratory, was Program Chairman.

A total of 308 persons registered for the meeting. Of these, 172 were university-college professors, 97 were university-college students, 3 were high school teachers, 1 was from the T.V.A., and 5 were from ORNL. 12 were from private industry, 14 were from state divisions, 3 were from the U.S. Geologic Service, and 1 was a zoo director.

The General Session was held in Room B of the Frazier Jelks Science Center on Friday morning beginning at 10:00 a.m. C.S.T. President James L. Wilson presided and the welcome was delivered by Dr. William L. Bowden, newly inaugurated, 17th President of Southwestern at Memphis. The theme of the session was pollution. Section meetings were held Friday afternoon; 73 papers were presented. The Annual Business Meeting was held in Room B of the Frazier Jelks Science Center at 5:00 p.m. C.S.T.

The Annual Dinner was held in the Southwestern Burrow Refectory at 7:30 p.m. C.S.T. Friday evening. Dinner tickets were purchased by 125 persons. President James L. Wilson presided, and the address was delivered by Dr. Jack W. Powers, Research Corporation, Atlanta, Georgia, who spoke on "Research in Science Teaching."

The Colleague Division held its meeting on Saturday morning at 9:00 a.m. C.S.T. in Room C of the Frazier Jelks Science Center. Dr. Richard J. Raridon, Director of the Collegiate Division, chaired the meeting, and 13 papers were presented by college students.

ANNUAL BUSINESS MEETING

The annual business meeting of the Tennessee Academy of Science was called to order by President James L. Wilson at 5:10 p.m. C.S.T. in Room B of the Frazier Jelks Science Center at Southwestern at Memphis in Tennessee, on November 20, 1970. Forty-three persons were present.

The Chairman reported that during 1970, there were 49 new members, four drops, and eight deaths reported to the Secretary. During the annual meeting, there were 52 new members. Total Academy membership now stands at 924. A motion was seconded and passed to approve all 1970 applications for memberships.

The reports of the Treasurer, the Editor, the Director of the Collegiate Division, the Director of the Junior Academy, the Director of the Visiting Scientists Program, the President, and the Director of the Reelfoot Lake Biological Station were similar to those presented earlier at the Executive Committee meeting. Again, all reports were approved by a passed motion. The President asked the Academy's representative to the A.A.A.S., James D. Caponetti, to read his reports of the Academy Conference Meeting and the A.A.A.S. Council Meeting held in Boston, Massachusetts, on December 30, 1969. These reports are not reproduced here because they are contained in the Minutes of the January, 1970, Executive Committee Meeting.

The Chairman of the Fellows Committee, Dr. Arthur W. Jones, presented the following members of the Academy as nominees to be named Fellows of the Academy:
2. George W. Edwards, Lambuth College, Jackson.
4. Robert W. McGowan, Memphis State University, Memphis.

5. Carter Patten, 831 Georgia Avenue, Chattanooga.

An amendment was seconded and passed that those named be made Fellows of the Academy.

The Chairman of the Membership Committee, Johnny O. Youngham, submitted the following report:

"The membership committee has continued the 'double the membership campaign during this year. The membership has not doubled; however, the 500-1,000 membership applications have been distributed through the members. The effects of this campaign cannot be evaluated at this time, but according to the secretary, the results are encouraging. The chairman wishes to express his appreciation to the members of this committee: Robert E. Martin, Robert G. Lichford, Christopher P. Keim, Kenneth D. Burnham, Raymond L. Tanner, Robert L. Amy, and John A. Patten." A motion was seconded and passed to accept the report.

The Chairman of the Necrology Committee, Floyd M. Ford, suggested that the audience stand and observe silent prayer while he read the names of eight members whose deaths came to his and the Secretary's attention during the past year.

1. Mr. Jesse W. Fox, Memphis State University, Memphis.
3. Dr. Hugh D. Misir, Washington, D.C.
4. Mr. C. H. Moore, Knoxville.
5. Dr. Thomas C. Carson, East Tennessee State University, Johnson City.
6. Dr. Loyd Durand, Jr., The University of Tennessee, Knoxville.
7. Dr. Huston E. Hood, Monta Mesa, California.

After a motion was introduced and seconded to accept the chairman's report, Dr. John H. Bailey of East Tennessee State University announced that Richard Steverson who was formerly associated with East Tennessee State University, had passed away during the year. The motion was passed to accept the Chairman's report. At the Annual Dinner, Dr. Glenn Gentry reported to the Secretary that Dr. Joseph C. Ireland, Bethel College, McGraw, had passed away. The Secretary made inquiry to the Chairman of the Division of Sciences and Mathematics at Bethel College concerning Dr. Ireland. Dr. Larry Black answered that Dr. Ireland passed away September 30, 1970, at Watertown, Tennessee. He was 77 years of age and had served as Professor of Biology at Bethel College from 1958 to 1968.

The Chairman of the Nominating Committee, Gustave H. Lundberg, presented the following nominations for the year 1971:
1. Dr. Richard J. Raridon, President.
2. Dr. Arthur W. Jones, President-Elect.
3. Dr. James D. Caponetti, Secretary.
4. Dr. Robert L. Wilson, Treasurer.

President Wilson asked for further nominations from the floor; there were none. A motion by Dr. Malcolm Owen was seconded and passed to bring further nominations to a close, and instructing the Secretary to cast one vote which would represent the unanimous election of each candidate to his respective office.

The Chairman of the Program Committee, Richard J. Raridon, presented a short oral report thanking all section chairmen for their help in making the section meetings a success. A motion was seconded and passed to accept the chairman's report.

There were no reports from the Science Talent Search and Research Committees.

The Chairman of the Resolutions Committee, Norman Campbell, read the following resolutions:

"WHEREAS, the Tennessee Academy of Science, including the Collegiate Division, is enjoying a most pleasant, profitable,
Disbursements:

President's Office Expenses $ 200.14
Secretary's Office Expenses 375.84
Treasurer's Office Expenses 456.00
Journals Expenses 739.26
Executive Committee Meeting 515.75
AAS Meeting 546.55
Dues AAS 34.44
Seminar Program 20.00
Fiddle Bond 65.50
Macmillan Bookstore 135.00
AAS Scholarships 3,134.00
Academy Programs TIAS-CD-VIII 3,134.00
Loan to Junior Academy 9,000.00

Book Balance, December 31, 1970 $ 11,364.41

Add: Outstanding Checks $ 3,585.00

Book Balance, December 31, 1970 $ 15,019.41

REPORT OF THE AUDITOR

"I have examined the Treasurer's Report of cash receipts and disbursements, accounts out, and other data, for the period December 1, 1970 to December 31, 1970. In my opinion, on the basis of information made available to me, the statement of Disbursements is a true representation of the funds of the Tennessee Academy of Science for the year ending December 31, 1970. Signed by Raymond J. McLaurin."

NEW MEMBERS TENNESSEE ACADEMY OF SCIENCE FOR 1970

Anderson, Samuel W., Box 24, Lee College, Cleveland, Tenn. 37311
Andrews, Dr. Hollings, Bld., Dept. Tenn. Tech., Cookeville 38501
Adkins, Howard K., Dept. of Biology, Lipscomb College, Madisonville 37354
Avery, Dr. Jerry R., College of Education, Tenn. Tech. Univ., Box 5A, Cookeville 38501
Bainbridge, Ross, Aeromedical Testing Co., Box 1231, Birmingham, Alis 35201
Beadle, Patricia, P.O. Box Lafayette Circle, Madisonville 38501
Benson, Dr. Bernard W., Dept. of Education, The Univ. of Tennessee, Knoxville 37916
Black, H. Delbert, Dept. of Biology, Memphis State Univ., Memphis 38106
Black, Dr. John L., Dept. of Biology, Box 89, Bells College
Blackwell, Dr. Leo H., UT Radiation Biology, 804 Madison Ave., Memphis 38105
Boeckner, Dr. Fred, Physics Dept., Austin Peay State Univ., Clarksville 37040
Bowles, Rebecca R., 4997 Warwick, Memphis 38117
Breden, Dr. John, David Lipscomb College, Nashville 37203
Brown, Dr. Edward T., Jr., Dept. of Biology, Memphis State Univ., Memphis 38105
Bryan, Norman L., 512 E. College Ave., Clarksville 37040
Burger, Dr. John, 131 Wright, Physics Dept., Carnegie Science Center, Jefferson City 37766
Bybee, John Paul, 6155 Harwood Avenue, Memphis 38117
Boy, John G., 1111 Point Lane, Oak Ridge 37830
Caldwell, Dr. William F., Dept. of Pharmaceutical Sciences, Medical Center, Memphis 38103
Carnell, Robert, 117 Dixie Lane, Oak Ridge 37830
Chattman, T. Lynn, 336 Lake Avenue, Maryville 37801
Chambers, Dr. Warren W., UT Pomology Dept., Knoxville 37916
Clark, Larry Davis, 5341 Midland, Memphis 38117
Coffey, Cyndie Hale (Mrs.), 1532 Kirby Ave., Chattanooga 37405
Craig, John C., Jr., David Lipscomb College, Nashville 37203
Davis, Kenneth B., Jr., Dept. Biology, Memphis State Univ., Memphis 38105
Davis, John F., Dept. of Psychology, King College, Bristol 37620
DeGraffenreid, James H., The New Jersey Zinc Co., 209 Industrial Drive, Carthage 37030
Dyess, Frank D., Dept. of Psychology, Memphis State Univ., Memphis 38101
Dunham, Dr. Clifford C., Lee College, Cleveland, 37311
Dockery, Diane E., Box 7061, Middle Tenn. State Univ., Murfreesboro 37130
Dungan, Dr. G. James, Dept. of Geol. & Geo., Austin Peay State Univ., Clarksville 37040
Edmondson, Larry E., 210, 15th St., Cookeville 38501
Edwards, Donald G., Belt College, Department of Biology, Nashville 37203
Evens, Dr. James D., Dept. of Anotomy, UT Medical Units, Memphis 38101
Fischer, Frederick T., 1518 Sulphur Springs Road, Murfreesboro 37130
Fitzgerald, Francis, #220, Aple, Lebanon 73007
Ford, George, 2819 W. 20th Ave., Memphis 38111
Gibson, Dennis, 13110 Lyon Ave, Nashville 37212
Goff, Dr. James R., Dept. of Communication & Speech, Johnson City, 37601
Goff, Robert V., Lee College, Cleveland 37311
Herman, Charles, 1461 Perry Street, Murfreesboro 37130
Herman, Charles, 1718 Green Hill Drive, Nashville 37203
Hofman, Steve, Jones College, S.D. College 4145 Poplar Ave., Memphis 38117
Hollman, Nina R., 2441 Part Road, Clarksville, 37301
Henderson, Jerry S., Box 2232, E. Tenn. State Univ., Johnson City 37602
Holanda, Dr. Charles W., Box 106, Middle Tenn. State Univ., Murfreesboro 37130
Hoester, Mr. Arland, Lambuth College, Jackson 38301
Huff, Marjorie P., Physical Sciences Dept., The Univ. of Tennessee, Knoxville 37922
Hubbard, Dr. Raymond, Lee College, Cleveland 37311
Hurt, Dr. W. Everett, Dept. of Physics, David Lipscomb College, Nashville 37203
Jackson, Joseph W., Pine Hill Estates, Bentonville 37026
Jackson, Mr. James W., Age 76, Apt. C, 461 Hickory Blvd., Jackson 38301
Jackson, Mr. Paul F., The Univ. of Tenn., 408 10th St., Knoxville 37916
Kenshin, Dr. H. H., Surniishion College, Collegeville 37115
Lennon, Walter W., Dept. of the Univ. of Tenn., Chattanooga 37340
Lonneman, Richard W., Dept. of Geology, Memphis State Univ., Memphis 38111
Lowell, Dr. William F., UT Medical Units, Memphis 38104, Middle Tenn. State Univ., Murfreesboro 37130
Lowrey, Dr. William D., Dept. of Geology, Memphis State Univ., Memphis 38111
Myrdick, Mr. Owen, Dept. of Pathology, Univ. of Tennessee, Knoxville 37915
Myhre, Mr. M. G., UT Medical Units, Knoxville 37915
Olson, M., 810 Madison, Memphis 38105
Olson, Earle, 535 Bay, East Tennessee State Univ., Johnson City 37601
Parmalee, Mrs. E. M., Box 1473, Austin Peay State Univ., Clarksville 37040
Peterson, Elroy, 393 Charles, Bowling Green, Ky. 42101
Ritter, John C., Dept. of Biology, East Tennessee State Univ., Johnson City 37601
Wright, Dr. Jerry T., Dept. of Biology, East Tennessee State Univ., Johnson City 37601
Zachry, Joel, Box 300, Kingston 37763