JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE

VOLUME 54, NUMBER 1, JANUARY, 1979

BIOGRAPHICAL DATA IN SERIAL PUBLICATIONS OF THE TENNESSEE ACADEMY OF SCIENCE

JAMES X. CORGAN AND SHARON R. TANNER

Austin Peay State University Clarksville, Tennessee 37040

ABSTRACT

This report provides an annotated index to biographies in serial publications of the Tennessee Academy of Science. To demonstrate the utility of biographies, the index was scanned for information on the leadership of the Tennessee Academy of Science. There are distinct time related trends in Academy leadership.

INTRODUCTION

Serial publications of the Tennessee Academy of Science contain a wealth of biographical material. From the first issue of the Transactions, in 1912, through the close of volume 50 of the Journal, in 1975, the Academy's serial publications contain 147 biographical articles that deal with 113 people. Most articles are necrologies or the personal sketches that customarily introduce new officers of the Academy. All biographical articles are designed to preserve a record for posterity, but they are rarely cited in later articles and brief biographical sketches get lost in the thousands of pages the Academy has published since 1912. To make 147 published biographies useful, a summary seems essential.

BIOGRAPHIES

Each person treated biographically in an Academy serial is listed below in alphabetical order. Unless otherwise indicated, the people listed worked in Tennessee and were professional scientists with normal academic credentials. When possible, each person is identified with at least one academic discipline and further data are provided on fields of employment and roles in Academy affairs.

ALLISON, HENRY C. President 1963; Physics and mathematics; Educator; Anonymous (1963a). AMY, ROBERT LEWIS. President 1974; Biology; Educator; Anonymous (1974a). BAHNER, CARL TABB. President 1951, news editor, beginning

1955; Chemistry and physics; Educator: Anonymous (1951a,

1955c).

BAIN, SAMUEL MCCUTCHEON, President 1916, Original member; Biology and geology; Educator; Essary (1944). BAKER, CLINTON L. Director Reelfoot Lake Biological Station, 1938-1969; Biology; Educator; Anonymous (1939a). BARCLAY, FRANK HUNT. President 1965; Biology; Educator; Anonymous (1965). BARNARD, EDWARD EMERSON. Astronomy; Educator; Aitken (1928), Braid (1928), M. Calvert (1928), P. Calvert (1928), Howell (1928), Landreth (1928), McGill (1928), Mitchell (1928), Morehouse (1928). BARTON, SAMUEL MARX. Treasurer 1912, Vice-President circa 1915, President 1917, Editor 1923, Original member; Mathematics; Educator; Anonymous (1926), Roberts (1926), Shaver (1950). BARTOO, DORR RAYMOND. Biology; Educator; Dicus (1945). BIRCHER, LOUIS J. President 1937; Chemistry; Educator; Anonymous (1938a). BLISS, ANDREW RICHARD. President 1931-1932; Medical sciences; Educator; Anonymous (1940b), Burns (1942). BORN, KENDALL EUGENE. Secretary-Treasurer circa 1946; Geology; Government scientist, private industry; Educator, Shaver (1946-1947). BOTTUM, FRANCES

RANNEY. Vice President 1948, President 1949; Biology; Educator; Anonymous (1949a; 1955b), Cook (1959). BOYCE, MOFFATT G. Treasurer, beginning 1951; Mathematics; Educator; Anonymous (1951b). BOYLE, ROBERT. Not a Tennessean; Historical figure; Chemistry; Stubbs (1931). BRAID, J. W. Chemistry, photography, inventor; Self employed; Barnard (1928). BROWN, DALTON MILFORD. President 1942; Biology; Educator; Anonymous (1942a), Stevenson (1953). BURCH, LUCIUS E. Amateur conservationist, Lawyer; Self

employed; Anonymous (1952e).

CAIN, STANLEY A. President 1945; Biology; Educator; Anonymous (1945). CAMPBELL, NORMAN. President 1967; Chemistry; Educator; Anonymous (1967). CAPLENOR, DON-ALD. Secretary, beginning 1956; Editor, beginning 1966; Biology; Educator; Anonymous (1956b; 1966). CAPONETTI, JAMES D. Secretary, beginning 1966; Biology; Educator; Anonymous (1966). CARLSON, J. GORDON. President 1961; Biology; Educator; Anonymous (1961a). CHADWICK, CLAUDE SIMPSON. Vice President 1955; President 1956; Biology; Educator Anonymous (1956a). CORNELIUS, DAVID WIL-LIAM. Vice President 1927, 1930, President 1930 (part); Physics; Educator; Shaver (1947).

DARK, HARRIS J. Treasurer 1956; Mathematics; Educator; Collins (1956). DAVIS, GEORGE. Biology; Educator; Rucker (1948). DARWIN, CHARLES. Not a Tennessean; Naturalist; Shaver (1942). DEACON, WARREN MCALLISTER. President 1948; Biology; Educator; Anonymous (1948). DICUS, A. W. President 1934; Physics; Educator; Anonymous (1939b). DORSET, MARION. Chemistry. Government scientist; Anonymous (1936a). DOWNS, WILLIAM G. Treasurer, beginning 1961; Biology; Educator; Anonymous (1961b), Pennebaker (1964). DRESSLAR, FLETCHER BASCOM. Editor, beginning 1924, President 1930 (part); Hygiene; Educator; Davis (1930), Pruett (1932), Shaver (1950).

EGGLESTON, ELEANOR. Academy Librarian circa 1935; Librarian; Anonymous (1935). ESSARY, SAMUEL HENRY.

Biology; Educator; Frizzell (1936).

FOUNTAIN, CLAUDE R. President 1936; Physics; Educator; Anonymous (1936b). FRIAUF, JAMES J. Treasurer 1949, Editor, beginning 1963; Biology; Educator; Anonymous (1949c; 1963b).

GAGE, GEORGE. Botany; Educator; Shoup (1946). GANIER, ALBERT FRANKLIN. President 1926; Amateur naturalist; Engineer in private industry; Anonymous (1939d). GAT-TINGER, AUGUSTIN. Historical figure; Medical doctor; Pioneer botanist, amateur; Oakes (1932), Harper (1953; 1954). GENTRY, GLENN. Biology; Government scientist; Anonymous (1974b). GLENN, LEONIDAS CHALMERS. President 1914, 1919, 1920, Original member; Geologist; Educator, government scientist; Anonymous (1941b), Jewell and Wilson (1952). GORDON, CHARLES HENRY. President 1912 (first), Editor 1919-1921, Original member; Geologist; Educator, government scientist; Hall (1935).

HALL, GEORGE MARTIN. President, 1934-35; Geology; Educator; Amick (1941). HARBISON, T. G. Not a Tennessean; Biology; Educator; Anonymous (1936c). HESLER, L. R. President, 1931; Biology; Educator; Anonymous (1939c). HILL, HENRY H. Not a scientist; Educator; Anonymous (1954b). HOLLADAY, WENDELL G. Secretary beginning 1957-58; Physics; Educator; Anonymous (1958b). HOOD, HUSTON E. Amateur in electronics; Self employed; Anonymous (1952d). HUTCHINSON, ROBERT ORLAND. Mathematics and physics; Educator; Kinslow (1952).

JACKSON, KEENER, JR. Student; Anonymous (1951d). JENNISON, HARRY MILLIKEN. Biology; Educator; Cain and Hessler (1940). JEWELL, WILLARD B. President 1962; Geology; Educator; Anonymous (1962). JONES, ARTHUR W. President 1972; Biology; Educator; Jones (1972). JORDAN, DAVID STARR. Not a Tennessean; Biology; Educator; Dresslar (1930).

KEIM, CHRISTOPHER P. President 1960; Chemistry; Privately employed and government scientist; Anonymous (1960a). KING, JEANETTE MOORE. Vice President 1920, first female officer; Health and Physical Education; Educator; Anonymous (1944b). LAGEMANN, ROBERT T. President 1959; Physics; Educator; Anonymous (1959a). LEATHERS, WALLER S. President 1926-27; Biology; Educator; Anonymous (1940a). LE CONTE, JOSEPH. Not a Tennessean; Historic figure, naturalist; Educator; Dresslar (1930). LIND, SAMUEL COLVILLE. Chemist; Government scientist; First and only native Tennessean elected to the National Academy of Science; Lind (1972). LUNDBERG, GUSTAVE H. Treasurer 1959, President 1969; Mathematics; Educator; Anonymous (1959b; 1969). LYON, JAMES A. Editor, 1914-1915, Original member; Physics; Educator; Hinds (1917), Shaver (1950).

MACQUEEN, MARION LEIGH. Vice President 1950; Mathematics; Educator; Anonymous (1951c). MAYFIELD, GEORGE R. Editor 1926-28 (first Journal editor); Amateur naturalist; Ganier (1950, 1955). Shaver (1950). MAYFIELD, MELBURN R. President 1966; Physics; Educator; Anonymous (1966). MCCAY, MYRON S. President 1954; Physics; Educator; Anonymous (1954a). MCCRADY, EDWARD, JR. President 1944; Biology; Educator, Government scientist; Anonymous (1944a). MCGILL, JOHN THOMAS. Vice President 1918, President 1918, Secretary 1926-1939, Original member, 1939-1946 Honorary life President, Represented the Academy at national conferences from 1925-1936; Chemistry; Educator; Shaver (1946), Baker (1953). MEYER, SAMUEL LEWIS. Vice President 1948-49, President 1950; Biology; Educator; Anonymous (1950a). MOORE, CLARENCE E. Biology; Educator; Webb (1948). MORGAN, HARCOURT A. Original member; Agriculturist; Educator and government scientist; Shaver (1951). MUIR, JOHN. Not a Tennessean, Historic figure, naturalist; Dresslar (1930). MYER, WILLIAM ED-WARD. President 1915; Amateur archaeologist; DeWitt (1948). MYERS, ALBERT LEROY. President 1975; Chemistry; Educator; Anonymous (1975).

NELSON, WILBUR ARMISTEAD. President 1924, Original member; Geology; Government scientist; Anonymous (1943b). NUNN, ROSCOE. Secretary-Treasurer 1913-20, 1922-25, President 1921, Editor 1922; Meteorology; Government scientist;

Anonymous (1942b), Shaver (1950).

PARCHMENT, J. GERALD. President 1973; Biology; Educator; Anonymous (1973). PARKINS, A. E. President 1923; Geography; Educator; Anonymous (1938b). PENNEBAKER, G. B. Treasurer 1964; Biology; Educator; Anonymous (1964b). POND, WALTER F. President 1934; Geology; Government scientist; Anonymous (1938c), Jones (1975). PORTER, JAMES T. Original member; Physics; Educator; Anonymous (1931). POWERS, EDWIN BOOTH. Biology; Education; Cole (1950). PURDUE, ALBERT HOMER. President 1917, Editor 1916-1917, Original member; Geology; Government scientist; Glenn (1946), Shaver (1950).

QUARTERMAN, ELSIE. Secretary 1952; Biology; Educator;

Anonymous (1952b).

RARIDON, RICHARD. President 1971; Physics; Educator and government scientist; Anonymous (1971). RICHARDS, THEO-DORE WILLIAM. Not a Tennessean; Chemistry; Educator; Buehler (1930). ROMER, FERDINAND VON. Historical figure; Geologist; Wilson and Frank (1944-45). RUSK, WILLIAM ROGER, Secretary 1949, President 1968; Physics and mathematics; Educator; Anonymous (1950b; 1968).

SAFFORD, JAMES M. Historical figure; Geology, chemistry, medical sciences; Educator and Government scientist; McGill (1917), Bain (1928, pt. 2). SEYFERT, CARL KEENAN. President 1952; Astronomy; Educator, government scientist; Anonymous (1952a), Lagemann (1961). SHANKS, ROYAL F. Botany; Educator; Hunt (1962). SHARP, AARON JOHN. President 1953; Biology; Educator; Anonymous (1953a).

SHAVER, JESSE MILTON. Editor 1929-1953, Editor Emeritus 1954-1961, President 1938; Biology; Educator; Anonymous (1943c; 1954c), Behnke (1955), Chadwick (1961), Hill (1955), Sharp (1955), Shaver (1950, 1956), Woodruff (1955). SHOUP, CHARLES S. President 1943; Biology; Educator; Anonymous (1943a). SMITH, ARLO IRVING. Secretary 1950, President 1958; Biology; Educator; Anonymous (1950c; 1958a). STOCK-DALE, PARIS B. President 1947; Geology; Educator; Anonymous (1947).

TIPTON, ISABEL HANSON. Secretary 1953-1955, President 1957; Physics and mathematics; Educator; Anonymous (1953b; 1957). TOMLINSON, GUS. Editor, 1970-present; Biology and mathematics; Educator; Anonymous (1970b). TROOST, GERARD. Historic figure; Geology, biology, archaeology; Educator and Government scientist; Bain (1928, pt. 2).

WALLS, JAMES G. Secretary-Treasurer 1947-48; Geology: Educator; Anonymous (1949b). WARD, HELEN L. Editor 1954-1963; Biology; Educator; Anonymous (1954d). WARD, JAMES W. President 1964; Medical sciencies; Educator: Anonymous (1964). WEBB, HANOR A. President 1946: Chemistry; Educator; Anonymous (1946; 1955a). WHITE, JAMES WILSON. Treasurer 1953; Physics; Educator; Anonymous (1953c). WILLIAMS, LOU. Amateur conservationist: Employed in private industry; Anonymous (1952c). WILSON. JAMES L. Secretary 1960, President 1970; Biology; Educator; Anonymous (1960b; 1970a). WILSON, LATIMER J. Astronomy; Educator; Seyfert (1949). WILSON, ROBERT LAKE. Treasurer 1966-present; Geology; Educator; Anonymous (1966). WOLF, FREDERICK T. President 1955; Biology; Educator; Deacon (1955). WOODARD, THOMAS MARION, JR. Biology; Educator; Shoup (1948). WREN, F. LYNWOOD. President 1941; Mathematics; Educator; Anonymous (1941a). WRIGHT, MIKE. Zoology; Educator; Kormndy (1955).

LEADERSHIP

Biographical data can be analyzed in many ways. As one example, we searched biographies for data on changes in Academy leadership from 1912 through 1975. An academy leader was defined as a person who held one of the following positions: President, Vice-President, Secretary, Treasurer, Editor, or Director of the Reelfoot Lake Biological Station. Using this concept of leadership, biographical data are available for 75 Academy leaders.

Using biographical data to examine Academy leadership over a time span of more than 60 years presents a few basic problems. Some offices attract more attention than others and are thus better documented. The best known office is editor, since Shaver (1950) discussed most early editors. The second most adequately known office is President. All but five presidents have been subjects of formal biographies. From biographies along, the sequence of office holders is quite poorly known in some offices, like Vice-President. In general, biographical data are better for leaders who served the Academy in recent years.

Tenure in office poses another problem in interpreting biographical data. To the great benefit of the Academy, people who hold offices like Secretary, Treasurer, and Editor tend to serve for long periods. At the other extreme, some Presidents have served for half a year. In compiling statistics, does a biologist who served as editor for 26 calendar years count as 26 biologists?

The relative "importance" of offices is another difficult matter. Is the President twice as important as the Treasurer, or is it the other way around?

In this study, all offices were treated as equal and each person was counted once for each time he or she began a new office. Using this approach to quantifica-

tion, and splitting the years 1912-1975 into three nearly equal parts, divides leaders into three rather distinctive populations. While this interpretation of biographical data may be somewhat prejudiced by a lack of total published records, patterns of change through time are so clear that prejudice does not seem to be significant.

The pioneer population served from 1912 through 1933. After creating the Academy, they saw the organization and demise of the Transactions, the impact of World War I, the organization of the Journal, and economic strains that went with the onset of the depression. During these pioneer years, Academy leadership involved a host of disciplines. There was one archaeologist, one hygienist, one meteorologist, etc. Geology was clearly the dominant field, supplying 26% of all known leaders. Perhaps this early dominance of geology was due to the fact that the Academy was the brainchild of George H. Ashley with a strong assist from Charles Henry Gordon. Both of these early leaders were geologists and initially the State Geologist generally held an office in the Academy. One State Geologist, L. C. Glenn, served three terms as president.

In the first phase of Academy growth, three of the greatest leaders were amateur naturalists: A. F. Ganier, G. R. Mayfield, and W. E. Myer. At least one-third of all leaders did not have a doctorate in the sciences and at least 25% had economic roots outside the Ivory Tower.

During the years from 1934 to 1954, the character of Academy leadership changed. Amateurs fell by the wayside, minor fields like archaeology became far less important, and two disciples began to emerge as leadership fields: biology and physics. These two fields, which were relatively unimportant in earlier decades, now contributed more than 60% of all leaders and about half of the presidents. Between 1934 and 1954, there were other changes in leadership. Most notably, Academy leaders were usually University professors and earned doctorates became more common.

In the third phase of Academy development, from 1955-1975, population trends within the leadership followed the pattern established in prior decades. Over 70% of the presidents and over 70% of all leaders came from the two leadership fields, biology and physics. There was a further decline in the number of leaders who worked in non-teaching capacities and the earned doctorate became almost required for a leadership position.

In the early portion of the latest phase of Academy history, the leadership made a sincere effort to recognize the importance of non-professionals by extending Honorary Membership to prominent amateur naturalists. Apparently this effort did not have lasting impact.

In developing a balanced historical knowledge of the Tennessee Academy of Science, biographical data on leaders must be blended with information on membership and with data on the changing purposes of the Academy, the availability of State funds, etc. Still, the simplest analysis of biographies seems to provide significant insight into Academy history.

OTHER ANALYSES

What roles have chemists played in developing the

Academy? When did microbiologists first assume leadership roles? Data on these and a hundred other topics are hidden in the biographical sketches listed above. The present report is far from an exhaustive study. It merely collocates biographies and gives one clear example of a role biographies can play in developing an understanding of the status of Science in Tennessee.

SUMMARY

Serial publications of the Tennessee Academy of Science contains 147 biographical sketches that treat 113 people. The main function of this study is to provide an annotated index of people who have been subjects of biography in Academy serials. As an example of the possible utility of biographical data, biographies were used to investigate changes in Academy leadership from 1912 to 1975. The human energy that got the Academy started came from people in diverse walks of life, including a very significant group of amateur scientists. This phase of Academy history ended in the early 1930's when selection of leaders resulted in greater emphasis on professional credentials, including advanced degrees. The Academy also began to select its leaders from two preferred fields, biology and physics. In the third phase of Academy development, which began in the mid-1950's, the two leadership fields, biology and physics, became almost totally dominant and the ranks of leadership became essentially closed to those who are not professors.

In this study, biographical data have been used to display changes in Academy leadership. The same data can be used in other aspects of research on the history of Science in Tennessee.

LITERATURE CITED

Aitken, Robert G. 1928. Barnard at the Lick Observatory. Jour. Tennessee Acad. Sci. 3:18-20.

Amick, Harold Clyde. 1941. In Memoriam: George Martin Hall.

Jour. Tennessee Acad. Sci. 16:341-344, 1 plt.

Anonymous, 1926. Sudden Death of Dr. Samuel M. Barton. Jour. Tennessee Acad. Sci. 1(1):17.

Jour. Tennessee Acad. Sci. 6:209.

Jour. Tennessee Acad. Sci. 10:96.

Tennessee Scientist. Jour. Tennessee Acad. Sci. 11:74-75.

dent of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 11:143, 1 plt.

Dies. Jour. Tennessee Acad. Sci. 11:228.

1937. Jour. Tennessee Acad. Sci. 13:1.

Jour. Tennessee Acad. Sci. 13:173, 1 plt.

Tennessee Acad. Sci. 13:249, 1 plt.

Jour. Tennessee Acad. Sci. 14:1.

Baker, Director.

President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 14:189, 1 plt.

Jour. Tennessee Acad. Sci. 14:265, 1 plt.

. 1939d. Albert Franklin Ganier, President, 1926. Jour. Tennessee Acad. Sci. 14:341, 1 plt.

. 1940a. Waller S. Leathers, President, 1926-1927. Jour. Tennessee Acad. Sci. 15:281, 1 plt.

_____. 1940b. A. Richard Bliss, Jr., President,

1931-1932. Jour. Tennessee Acad. Sci. 15:357, 1 plt.

1941a. Doctor F. Lynwood Wren, New President. Jour. Tennessee Acad. Sci. 16:189, 1 plt.

Acad, Sci. 16:265, 1 plt.

Octor L. C. Glenn. Jour. Tennessee

Jour. Tennessee Acad. Sci. 17:157.

Tennessee Academy of Science, Jour. Tennessee Acad. Sci. 17:309.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 18:141, 1 plt.

President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 18:213, 1 plt.

President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 18:289, 1 plt.

Third President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 19:125, 1 plt.

President of the Tennessee Academy of Science, Jour. Tennessee Acad. Sci. 19:201, 1 plt.

(sic) President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 20:157, 1 plt.

President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 21:141-143, 1 plt.

President of the Tennesssee Academy of Science. Jour. Tennessee Acad. Sci. 22:91-93, 1 plt.

Thirty-Seventh President of the Tennessee Academy of Science.

Jour. Tennessee Acad. Sci. 23:101-103, 1 plt.

Eighth President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 24:77-78, 1 plt.

surer of the Tennessee Academy of Science, 1947 and 1948.

Jour. Tennessee Acad. Sci. 24:78-79, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 24:79, 126, 1 plt.

Ninth President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 25:92-94, 1 plt.

tary of the Academy. Jour. Tennessee Acad. Sci. 25:94-95, 1 plt.

Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 25:95-96, 1 plt.

dent of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 25:93-94, 1 plt.

Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 26:95, 1 plt.

President Tennessee Academy of Science, 1950. Jour. Tennessee Acad. Sci. 26:95-96, 1 plt.

Acad. Sci. 26:167. Keener Jackson, Jr. Jour. Tennessee

First President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 27:93-94, 1 plt.

______. 1952b. Dr. Elsie Quarterman, Secretary of the Academy. Jour. Tennessee Acad. Sci. 27:94-95, 1 plt.

1951. Jour. Tennessee Acad. Sci. 27:95-96, 1 plt.

Acad. Sci. 27:268-269, 1 plt.

ber, 1952. Jour. Tennessee Acad. Sci. 27:269-270, 1 plt.

dent of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 28:93-94, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 28:94-95, 1 plt.

of the Tennessee Academy of Science, Jour. Tennessee Acad. Sci. 28:95, 1 plt.

dent of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 29:93-94, 1 plt.

the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 29:169-170, 1 plt.

the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 29:170-171, 1 plt.

Journal of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 29:245-246, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 30:187-188, 1 plt.

of the Tennessee Academy of Science, Jour. Tennessee Acad. Sci. 30:188-189, 1 plt.

the Journal of the Tennessee Academy of Science, Jour. Tennessee Acad. Sci. 30:192, 1 plt.

1956a. Doctor Claude Simpson Chadwick, 1956 President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 31:103-104, 1 plt.

the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 31:105-106, 1 plt.

President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 32:89-90, 1 plt.

dent of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 33:107-108, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 33:185, 1 plt.

dent of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 34:81-82, 1 plt.

surer Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 34:83, 1 plt.

President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 34:77-79, 1 plt.

tary Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 35:80, 1 plat.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 36:93-95, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 36:96-97, 1 plt.

dent of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 37:41-42, 1 plt.

President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 38:49-50, 1 plt.

Journal of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 38:51, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 39:41-42, 1 plt.

_____. 1964b. Dr. G. B. Pennebaker, New Treasurer

of the Tennessee Academy of Science, Jour. Tennessee Acad. Sci. 39:43, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 40:40-41, 1 plt.

of Science. Jour. Tennessee Acad. Sci. 41:49-50, 4 plts.

the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 42:37, 1 plt.

emy of Science. Jour. Tennessee Acad. Sci. 43:33, 1 plt.

1969. New President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 44:33, 1 plt.

emy of Science. Jour. Tennessee Acad. Sci. 45:33, 1 plt.

1970b. New editor of The Journal of the

Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 45:34, 1 plt.

emy of Science. Jour. Tennessee Acad. Sci. 46:37, 1 plt..

1973. New President of the Tennessee Acad-

emy of Science, Jour. Tennessee Acad. Sci. 48:41, 1 plt.

. 1974a. President of the Tennessee Academy of Science for 1974. Jour. Tennessee Acad. Sci. 49:37, 1 plt.

. 1974b. Tribute to Dr. Glenn Gentry, 1895-1973. Jour. Tennessee Acad. Sci. 49:103. . 1975. President of the Tennessee Academy of

Science for 1975. Jour. Tennessee Acad. Sci. 50:37-38, 1 plt. Bain, S. M. 1928. Southern Contributions to Natural History. Jour. Tennessee Acad. Sci. 3(2):25-32; 3(3):27-31.

Baker, C. L. 1953. History of the Academy Conference. Jour. Tennessee Acad. Sci. 28:120-123.

Barnard, Edward E. 1928. Letter from Professor Barnard regarding Mr. Braid. Jour. Tennessee Acad. Sci. 3(1):10-11, 1 plt.

Behnke, John A. 1955. Dr. Jesse M. Shaver, an Editor with a Vision. Jour. Tennessee Acad. Sci. 30:77-80.

Braid, J. W. 1928. First employment of Barnard; his first tele-

scope. Jour. Tennessee Acad. Sci. 3(1):8-10, 1 plt.
Buehler, C. A. 1932. Theodore William Richards. Jour. Tennessee

Acad. Sci. 7:127-131, 1 plt.

Burns, P. P. 1942. In Memoriam: Dr. Andrew Richard Bliss, Jr.

Jour. Tennessee Acad. Sci. 17:233-235.

Cain, Stanley A, and Hesler, L. R. 1940. Harry Milliken Jennison, 1885-1940. Jour. Tennessee Acad. Sci. 15:172-176, 1 plt.

Calvert, Mary R. 1928. Some personal reminiscences. Jour. Tennessee Acad. Sci. 3(1):28-31, 2 plts. Calvert, P. R. 1928. Reminiscences of Barnard. Jour. Tennessee

Acad. Sci. 3(1):11-14, 1 plt. Chadwick, Claude S. 1961. Jesse Milton Shaver. Jour. Tennessee

Acad. Sci. 36:243-247, 1 plt.
Cole, A. C. 1950. In Memoriam: Edwin Booth Powers. Jour.

Tennessee Acad. Sci. 25:169-170, 1 plt.
Collins, Willard. 1956. Harris J. Dark, New Treasurer of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 31:105-106, 1 plt.

Cook, Arthur H. 1959. In Memoriam: Frances Ranney Bottum (1890-1958). Jour. Tennessee Acad. Sci. 34:147-148.

Davis, Kary C. 1930. In Memoriam: Fletcher Bascomb Dresslar as a scientist. Jour. Tennessee Acad. Sci. 5:137-140. Deacon, W. McA. 1955. Doctor Frederick T. Wolf, New President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 30:185-186, 1 plt.

DeWitt, John H. 1948. William Edward Myer. Jour. Tennessee Acad. Sci. 23:243-248, 1 plt.

Dicus, A. W. 1945. In Memoriam: Dr. Dorr Raymont Bartow. Jour. Tennessee Acad. Sci. 20:239-240, 1 plt.

Dresslar, Fletcher B. 1930. The Last Three Great Naturalists of America. Jour. Tennessee Acad. Sci. 5:141-156. Essary, S. H. 1944. Samuel McCutchen Bain, Fifth President,

1916. Jour. Tennessee Acad. Sci. 19:277-279, 1 plt. Reprinted

from Phytopathology 10 (1920):185-188.

Frizzell, E. G. 1936. In Memoriam: Samuel Henry Essary. Jour.

Tennessee Acad. Sci. 11:123-125, 1 plt.

Ganier, A. F. 1950. Biographical sketch of Doctor George R. Mayfield. Jour. Tennessee Acad. Sci. 25:245-247, 1 plt.

of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 30:190-191, 1 plt.

Glenn, L. C. 1946. Dr. A. H. Purdue, Seventh President of the Tennessee Academy of Science, 1917. Jour. Tennessee Acad. Sci. 21:191-197; 217, 1 plt.

Hall, George Martin. 1935. Memorial of Charles Henry Gordon, First President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 10:100-103, 1 plt.

Harper, R. M. 1953. Two unpublished Gattinger Letters. Jour. Tennessee Acad. Sci. 28:236-239.

1954. Another Gattinger Letter. Jour. Ten-

nessee Acad. Sci. 29:238-239, 1 plt.

Hill, Henry H. 1935. Jesse M. Shaver, Master of Teaching. Jour. Tennessee Acad. Sci. 30:83.

Hinds, J. I. D. 1917. James Adair Lyon, A. M., Ph.D., LL.B. Trans. Tennessee Academy Sci. 2:42-43.

Howell, Alfred E. 1928. Letter from Alfred E. Howell. Jour. Tennessee Acad. Sci. 3(1):8.

Hunt, Gordon E. 1962. Royal E. Shanks (1912-1962). Jour. Tennessee Acad. Sci. 37:110, 1 plt.

Jewell, W. B. and Wilson, C. W., Jr. 1952. Memorial of Leonidas Chalmers Glenn. Jour. Tennessee Acad. Sci. 27:167-170, 1 plt. Jones, Arthur W. 1972. New President of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 47:42, 1 plt.

Jones, Walter B. 1975. In Memoriam, Walter Franklin Pond (1885-1974). Jour. Tennessee Acad. Sci. 50:136.

Kinslow, Ray. 1952. In Memoriam—Dr. Robert Orland Hutchinson. Jour. Tennessee Acad. Sci. 27:90-91, 1 plt. Kormndy, Edward J. 1955. In Memoriam, Mike Wright, 1914-

1953. Jour. Tennessee Acad. Sci. 30:193-194.

Lagemann, Robert. 1961. Carl Keenan Seyfert. Jour. Tennessee

Acad. Sci. 36:2-4, 1 plt.

Landreth, Olin H. 1928. Barnard at Vanderbilt University Observatory. Jour. Tennessee Acad. Sci. 3(1):15-17.

Lind, Samuel Colville. 1972. The Memoirs of Samuel Colville Lind. (Edited by Philip S. Rudolph). Jour. Tennessee Acad. Sci. 47:1-40, 1 plt.

McGill, John T. 1917. James M. Safford. Trans. Tennessee Acad. Sci. 2:48-54.

nessee Acad. Sci. 3(1):32-56.

Mitchell, S. A. 1928. With Barnard at Yerkes Observatory and at the Sumatra Eclipse. Jour. Tennessee Acad. Sci. 3(1):25-

Morehouse, D. W. 1928. Reminiscences of Edward Emerson Barnard. Jour. Tennessee Acad. Sci. 3(1):21-22.

Oakes, Henry N. 1932. A Brief Sketch of the Life and Works of Augustin Gattinger. Jour. Tennessee Acad. Sci. 7:260-412, 1 plt.

Pennebaker, G. B. 1964. Dr. William Gershom Downs, Jr. Jour. Tennessee Acad. Sci. 39:82, 1 plt.

Pruett, Haskell. 1932. The writings of Fletcher Bascom Dresslar (1858-1930). Jour. Tennessee Acad. Sci. 7:122-124.

Roberts, Joseph K. 1926. Samuel Marx Barton. Jour. Tennessee Acad. Sci. 1(3):31-32, 1 plt. Rucker, Ellis S., Jr. 1948. In Memoriam: Professor George Davis.

Jour. Tennessee Acad. Sci. 23:253-254, 1 plt. Seyfert, Carl K. 1949. In Memory of Latimer J. Wilson. Jour.

Tennessee Acad. Sci. 24:153-154, 1 plt.

Sharp, A. J. 1955. The Obligations and Responsibilities of a Scientist: A Tribute to Dr. Jesse M. Shaver. Jour. Tennessee

Acad. Sci. 30:80.

Shaver, Jesse M. 1942. How To Make a Great Man. Jour.

Tennessee Acad. Sci. 17:351-359.

Thomas McGill. Jour. Tennessee Acad. Sci. 21:291-294, 1 plt.

Treasurer. Jour. Tennessee Acad. Sci. 21:360; 22:8, 1 plt.

Tennessee Acad. Sci. 22:230-231, 1 plt.

Journal of the Tennessee Academy of Science. Jour. Tennessee Acad. Sci. 25:248-251.

JOURNAL OF THE TENNESSEE ACADEMY OF SCIENCE

Morgan. Jour. Tennessee Acad. Sci. 26:243-245, 1 plt.

. 1956. Dr. Jesse M. Shaver and his students.

Jour. Tennessee Acad. Sci. 31:153-155.

Shoup, Charles S. 1946. Dr. George R. Gage, 1890-1945. Jour.

Tennessee Acad. Sci. 21:187-188, 1 plt.

1948. Thomas Marion Woodward, Jr. Jour.

Tennessee Acad. Sci. 23:251.

Stevenson, Richard. 1953. In Memory of Dr. Dalton Milford Brown. Jour. Tennessee Acad. Sci. 28:169-171, 1 plt.

Stubbs, M. F. 1931. Sir Robert Boyle, an Appreciation. Jour. Tennessee Acad. Sci. 6:13-16.

Webb, H. A. 1948. Dr. Clarence E. Moore. Jour. Tennessee Acad. Sci. 23:177-179, 1 plt.

Wilson, Charles W., Jr., and Frank, J. G. 1944-45. Ferdinand Von Romer and his visit to Tennessee in 1847. Jour. Tennessee Acad. Sci. 19:270-276; 323-333; 20:224-227.

Woodruff, Nathan H. 1955. To Dr. Jesse M. Shaver. Jour. Tennessee Acad. Sci. 30:81-82.