

# HISTORY OF THE SOUTHERN CALIFORNIA ACADEMY OF SCIENCES

By HILDEGARDE HOWARD

## ORGANIZATION

On November 6, 1891, at the Hotel Lindley in Los Angeles, a small group of men and women interested in science gathered together to form the Southern California Science Association. Ten days later the first officers and executive board were elected, and a constitution was duly prepared and published before the end of the first year.

The established scientific societies of the eastern United States had not yet touched the new and growing communities of southern California. The founders of the Science Association felt an urgent need for an organization to further the sciences in the southwest. The aim of the new organization as set forth in its first constitution was ". . . to secure a more frequent interchange of thought and opinion among those who devote themselves to Scientific and Natural History studies; to elicit and diffuse a taste for such studies where it is yet unformed; and to afford increased facilities for its extension where it already exists." Towards this end, regular meetings were held at the Chamber of Commerce building the second Tuesday of each month, at which scientific papers were presented.

By a change of name in the Association's constitution, this organization became the Southern California Academy of Sciences in 1896, meeting for the first time under this title at the annual meeting of May 12, 1896.

No complete record of the founders of the original Science Association appears to be extant. The following persons, however, were among its most active members. Those starred have been recorded as founders.

May, 1957 marks the fiftieth anniversary of the incorporation of the Southern California Academy of Sciences. This history of the accomplishments of the Academy is offered so that the membership today may appreciate the efforts of its predecessors and be inspired to even higher attainments in the future.

- \*M. H. Alter (Optometrist)
- \*Bernhard R. Baumgardt (Printer and Lecturer)
- \*D. W. Coquillett (Entomologist)
- \*Anstruther Davidson (M.D. and Botanist)  
Melville Dozier
- \*Mrs. Mary E. Hart  
John Daggett Hooker
- \*Major E. W. Jones  
Samuel J. Keese (Electrical Engineer)  
Abbot Kinney
- \*William H. Knight (Journalist)
- \*William Lundberg (Electrical Engineer)
- \*J. C. Nevin (Retired Missionary, and Botanist)
- \*C. R. Orcutt
- \*George W. Parsons (Geologist)
- \*Thomas Shooter
- \*William A. Spalding (Journalist)  
William Lord Watts (Geologist)  
Judge M. F. Woodward

In 1902 a committee was appointed to proceed toward the incorporation of the Academy, and a constitution was prepared and adopted by the Board of Directors. It was not until May 11, 1907, nearly five years later, however, that incorporation procedures were consummated. On that date, the Directors met and signed the Articles of Incorporation which were then certified by C. F. Curry, Secretary of State of California, on May 17, 1907. Members of the Board of Directors whose signatures were affixed to this document were Bernhard R. Baumgardt, Wm. H. Knight, John Daggett Hooker, John S. Vosburg, Samuel J. Keese, Holdridge Ozro Collins, George Major Taber, George W. Parsons, Anstruther Davidson and Clement A. Whiting. Melville Dozier, the eleventh member of the Board, and secretary of the Academy, did not sign, and may not have been present on May 11. Mr. Collins was elected secretary for purposes of incorporation, and his signature appears with that of president Baumgardt as an officer. Mr. Dozier, however, was reelected secretary for the first corporate year.

The original Articles of Incorporation limited the life of the Corporation to fifty years. Therefore, on January 18, 1957, with all but three members of the Board of Directors and the Advisory Board present, the Articles were amended extending the life of the Academy in perpetuity. This action was certified by Frank M. Jordan, Secretary of State on March 18, 1957.

**Officers of the Southern California Science Association  
and the Southern California Academy of Sciences**

First Officers of the Association, 1891-1892

M. H. Alter, President  
Anstruther Davidson, 1st Vice Pres.  
D. W. Coquillett, 2nd Vice Pres.  
Mrs. Mary E. Hart, Secretary

First Officers of the Academy, 1896-1897

Wm. H. Knight, President  
A. M. Shields, 1st Vice Pres.  
E. Arnold Praeger, 2nd Vice Pres.  
George H. Bonebrake, Treasurer  
Bernhard R. Baumgardt, Secretary

First Officers of the Corporate Academy, 1907-1908

Bernhard R. Baumgardt, President  
Wm. H. Knight, 1st Vice Pres.  
John D. Hooker, 2nd Vice Pres.  
Samuel J. Keese, Treasurer  
Melville Dozier, Secretary

Presidents of the Association and the Academy

1891-1892	Dr. M. H. Alter
1892-1894	Dr. Anstruther Davidson
1894-1897	William H. Knight
1897-1898	William A. Spalding
1898-1900	Abbot Kinney
1900-1902	William H. Knight
1902-1904	Dr. Theodore B. Comstock
1904-1906	Prof. Melville Dozier
1906-1909	Bernhard R. Baumgardt
1909-1913	William A. Spalding
1913-1918	Arthur Burnett Benton
1918-1919	Hector Alliot

A Camera Section was organized June 16, 1896 but was active for only a short period.

An Agricultural Experiment Section functioned under the direction of Dr. S. M. Woodbridge in 1897, and into the early 1900's. Several scientific papers were published by this section.

The Geological Section was initiated sometime between 1898 and 1902. It was listed in volume I, no. 1 of the Bulletin (1902) with George W. Parsons and C. Major Taber as chairman and secretary, respectively. For a period from 1932 to 1944 it disbanded, but was reorganized as the Section of Earth Sciences in 1944.

The Biological Section met for several months before it was formally organized in November, 1902. Professor B. M. Davis was elected chairman of the section at that time, and Prof. Clement A. Whiting, secretary. Prof. A. B. Ulrey, Director of the Marine Biological Laboratory of the University of Southern California, and Wm. H. Knight were also active in the section in the early 1900's. In later years the section dissolved in favor of the Botanical and Zoological Sections.

The Zoological Section was organized June 28, 1909 by James Zaachaeus Gilbert, W. A. Spalding, George W. Parsons, Wm. H. Knight and Holdridge O. Collins. Under the leadership of Prof. Gilbert, this section was responsible for the Academy's work of excavating the fossils at Rancho La Brea in 1909-1911. The section was absorbed by the Biological Sciences Section in 1919, was reinstated from 1927 to 1932 and then discontinued until 1944.

A Section on Meteorology and Aeronautics was initiated in 1927-1928 by Dr. Ford A. Carpenter, but it did not continue.

Archaeology was not represented by an Academy section until 1927. This was possibly due to the fact that the Archaeological Institute was very active in southern California and Academy members interested in this field of science belonged also to the Institute. The Archaeological Section as organized by the Academy was first chairmanned by R. H. Swift. The sec-

tion lapsed for three years from 1932 to 1935 and was reactivated in 1935 with Dr. Carl Sumner Knopf as chairman and Dr. Swift, secretary.

In 1944 the sections were essentially those in effect today. In only rare instances have these sections held regular meetings as in former times. Their main function has been to bring before the Academy membership as a whole prominent speakers in their particular fields. The change in function of the sections may be in large measure due to the many other specialized scientific societies now active in southern California. However, there are still several fields in which regular section meetings would be welcomed could willing leadership be found.

## PUBLICATIONS

The first periodical publication of the Academy was known as the Proceedings of the Southern California Academy of Sciences. Volume 1, no. 1 appeared in July, 1896. Previous to this, in 1895, the Southern California Science Association issued a paper by Bernhard Baumgardt on "Tidal Evolution," but there was no attempt to produce a periodical.

Only six issues of the Proceedings were published, all under volume 1, but extending from 1896 to 1899. Numbers 1, 3 and 5 contained reports of meetings, and each issue contained a single scientific paper, as follows:

- No. 1. Catalogue of the Plants of Los Angeles County.  
By Anstruther Davidson, July, 1896. 38 pp.
- No. 2. Eucalyptus. By Abbot Kinney. September, 1896. 298 pp.
- No. 3. California Bees and Their Parasites.  
By Anstruther Davidson. April, 1897. 5 pp.
- No. 4. Lichens of Southern California.  
By E. E. Hasse. 1897. 20 pp.
- No. 5. Seedless Plants of Southern California.  
By A. J. McClatchie. July, 1897. 62 pp.
- No. 6. Antiseptic Vegetation for Cuba.  
By A. Campbell Johnston. September, 1899. 7 pp.

Ten miscellaneous papers were issued as Bulletins of the Agricultural Experiment Section of the Academy in the years 1897-1907. These and the Proceedings are long since out of print.

The Bulletin of the Southern California Academy of Sciences first appeared in January 1902 and has continued regularly to date. 1957 begins the 56th volume. It was intended that the Bulletin should be a monthly, at least during the active Academy year from October to June. For the first four years, nine or ten issues were published. However, this was a more ambitious program than either finances or material for publication would support, and the number of issues was soon reduced. Since 1925, there have been three issues each year.

Volume 1, no. 1 of the Bulletin was a small issue with only twelve pages, less than half of which were devoted to scientific subjects. Today's Bulletin contains approximately sixty pages and includes eight or nine technical articles of high scientific merit. A great variety of papers in many fields of science have appeared in the Bulletin. Botany, Entomology, Paleontology, Geology, Archaeology, Astronomy, Marine Biology, Ornithology and Meteorology have all been represented as persons in these fields became active in the Academy.

Each volume of the Bulletin is indexed, but unfortunately no ten-year indices have ever been prepared. These await the generosity of an Academy member willing to devote time to a very worthy project!

Anstruther Davidson was the first editor of the Bulletin. Bernhard Baumgardt published the Bulletin at his printing establishment for a number of years. Holdridge O. Collins took over the editorship in 1908 for a period of about ten years. Others who helped make the Bulletin a success by their service on the Publications Committee were Theodore B. Comstock, Melville Dozier, Wm. A. Spalding, and our present able editor, Dr. John Adams Comstock who has served since 1921.

In 1938 a monograph series was begun—Memoirs of the Southern California Academy of Sciences.

Memoirs have appeared irregularly as manuscripts and funds have been forthcoming. The sixth Memoir was printed in 1956.

## HISTORICAL HIGHLIGHTS

The growth of the Academy in its early years was directly related to the inspired leadership of the founders and leaders of the "Association"—such men, for example, as Dr. Anstruther Davidson in Botany, Bernhard Baumgardt and John Daggett Hooker in Astronomy, William Watts in Geology, and others, such as William Knight, William Spalding, George Parsons, Melville Dozier, Samuel Keese and Abbot Kinney, who served the entire Academy in various official capacities and maintained an active series of programs that resulted in growth in membership and public interest. To these should be added Holdridge O. Collins who joined the Academy shortly after the change in name.

In addition to the monthly lecture programs and section meetings, an occasional excursion is recorded, such as an all day trip to Mt. Lowe (May, 1898); a Board of Directors' cruise with Professor Ulrey, Director of the Marine Biological Laboratory of the University of Southern California, on the launch "Anton Dohrn" (August, 1917); and a meeting at the Venice Chamber of Commerce followed by a tour of the amusement centers of Venice by invitation of the founder of the town, Abbot Kinney (June, 1909). Early Academy meetings and most of the section meetings were held in public buildings in downtown Los Angeles—Symphony Hall, Blanchard Hall, Normal School, Polytechnic High School, and the Public Library. For a time an office was rented in the San Fernando Building where the secretary transacted business for the Academy and the supply of back numbers of the Bulletin was stored.

1907-1917

The decade following incorporation was a period of great activity and accomplishment by the Academy and its individual members. At the time of incorporation, four sections (Astronomical, Biological, Botani-

cal and Geological) were active and there were 186 members. Of these members, Theodore Payne is the only one living.

The Academy treasury, in 1907, contained \$68.73. In 1912 an endowment fund was established by means of life memberships and donations. To this, in 1917, was bequeathed \$10,000 from the Bancroft Etz Beeman estate. Assets at the end of the decade, therefore, totalled \$11,366.

During this decade, Holdridge O. Collins assumed the duties of secretary of the Academy and editor of the Bulletin. Poems began to appear in the Bulletin, and many of the evening meetings were enhanced by musical programs during his years of service. Records during his period of office were meticulously kept. Dr. John Adams Comstock made his first official appearance at the Academy in June, 1917 when he spoke at the regular meeting on "Collecting Butterflies." He was then Curator of Entomology at the Southwest Museum. Two years later he joined the Academy, and the following year was elected to the Board of Directors.

Many of those active in the growth of the corporate Academy were prominent in the cultural life of Los Angeles. John Daggett Hooker was not only constant in his service and financial aid to the Academy, but acquired international fame as a scientific benefactor by his financial backing of the 100-inch Reflector Telescope for Mount Wilson Observatory. Dr. Hector Alliot, Archaeologist, was Director of the (then new) Southwest Museum; Dr. Frank S. Daggett was Director of the Los Angeles Museum; Dr. Charles L. Edwards was known and loved by all school children of this period for his interpretation of science in the public school system; Wm. H. Knight was well known for his interpretation of scientific discoveries, in the Los Angeles press; Theodore Payne brought pleasure to thousands by his dedicated, and successful, efforts in 1915 to establish a wildflower garden in the southeast corner of Exposition Park; George W. Parsons was influential in bringing about the erection of guide posts in the Colorado desert; Wm. L. Watts took part in developing the oil fields of California.

## *Rancho La Brea and the Los Angeles Museum*

Probably the most important series of events in the years 1907-1917 concerned the Academy's part in the excavation of fossils at Rancho La Brea and the subsequent founding of the new Museum of History, Science and Art (now the Los Angeles County Museum). In June, 1909, the secretary of the Academy was commissioned to request from Mrs. Ida Hancock Ross (owner of Rancho La Brea) an allotment of ground in the fossil deposits to be excavated under the auspices of the Academy. A generous donation from John D. Hooker permitted the work to get underway rapidly. Under the newly formed Zoological Section of the Academy and its chairman Prof. J. Z. Gilbert (teacher of Zoology at Los Angeles High School), quantities of bones of the extinct animals contained in the tar deposits were exhumed. Small grants to the Academy from the City and County of Los Angeles provided further funds to carry on this work. The acquisition of the Rancho La Brea fossils led to the Academy's active interest in the development of a new museum to house them. With the southern division of the Cooper Ornithological Club, the Historical Society of Southern California, and the Fine Arts League, the Academy entered into an agreement with the County of Los Angeles whereby representatives from these organizations would form a governing board to determine the policies of the museum; the county would contribute the funds for the construction and maintenance of the building and the employment of a staff. A contract to this effect was drawn up and signed on February 7, 1910, and was in effect for a number of years.

At the laying of the cornerstone of the museum, on December 17, 1910, the Academy's president, Wm. A. Spalding, the secretary, H. O. Collins, and a member of the Board of Directors, George W. Parsons, were on the platform with officers of the Grand Lodge of Free Masons. Among the documents placed in the cornerstone, were the Articles of Incorporation

of the Academy, a history of the Academy prepared by Wm. H. Knight, a list of Academy members, and volumes 8 and 9 of the Bulletin. Dr. Anstruther Davidson and Wm. A. Spalding were elected by the Academy to serve on the museum's first Board of Governors.

By 1912 mounted skeletons of many of the extinct animals from Rancho La Brea had been prepared and installed in the new museum's science wing, constituting the first exhibit of these famous fossils to be shown at the museum. For many years the Academy retained title to these skeletons and not until 1931, sixteen years after the museum's own excavations at Rancho La Brea, were they made a gift to the museum.

As a result of the Academy's work at Rancho La Brea, the saber-tooth cat skull was chosen as the official Academy emblem, in 1915. Also commemorating the work at the tar pits, a gavel was made with handle carved from the wood of the fossil cypress tree and head made from a vertebra of a ground sloth. This was presented to the president of the Academy by Dr. Davidson at the first meeting of the 1914 season (October 17, 1914), an especially memorable occasion when several founders were present and honored.

#### LATER YEARS

In the period from 1918 to 1927, as many of the Academy's founders and other early workers passed on, the work of the Academy fell to the newer members. Among these were Dr. Ford A. Carpenter, Dr. R. H. Swift, and Dr. John Adams Comstock. Dr. Carpenter was a member of the U.S. Weather Bureau and also served on the Los Angeles Museum's Board of Governors. He held various offices in the Academy and contributed frequently to the Bulletin until his death in 1947. Dr. Swift's activity in the Archaeology Section and in various official capacities for the Academy, and Dr. Comstock's work both as an Entomologist and as Editor for the Bulletin are well known to the Academy membership.

Others who contributed to the later work of the Academy joined in the 1930's and 1940's. These include, in addition to most of the present officers and

board members: past presidents, Dr. Carl Sumner Knopf (Dean of the University of Southern California School of Religion), Dr. H. J. Andrews, and Dr. Wm. L. Lloyd; Dr. Chester Stock, noted Paleontologist who chairmanned the Geological Section for a time; and James C. Marsh, who for many years generously printed the Academy's programs on his small press at his home.

Through the depression years, Academy membership dropped below fifty, and invested capital dwindled. It is a tribute to the founding fathers, as well as to those in official capacities during this trying period that the Academy not only "weathered" these years but was able to launch its new monograph series, the Memoirs, in 1938.

Today the Academy has 194 members and 59 subscribers to the Bulletin. Invested capital has a market value of over \$50,000 and annual receipts from investments, memberships and sales total nearly \$5000. Three Bulletins are published each year, and a new Memoir was recently issued (1956). Within the last three years (March, 1954) a Memorial Fund has been initiated. Friends of deceased members are encouraged to contribute to the fund in memory of the deceased, and the Academy also places \$10 in the fund for each deceased member. The fund now totals \$1434, honoring fourteen members who have passed on in recent years. The money is invested towards the time when the proceeds are sufficient to be used for special scientific publications.

Although the Academy has been affiliated with the Pacific Division of the American Association for the Advancement of Science since 1924, affiliation with the national Association was only consummated in 1953. The Academy is now entitled to nominate one of its members each year to receive from the Association a research grant of \$50. Grants have been awarded as follows:

1954: To Dr. Louis C. Wheeler for a study and recording of Rafinesque's types of Euphorbiaceae in the Museum National d'Histoire Naturelle, Paris, and the Arnold Arboretum.

1955: To Mr. Stanley H. Brode for a survey of the intertidal shore life of southern California and the preparation of a guide to the principal macroscopic forms.

Recipients of the 1956 and 1957 grants are under consideration as this history goes to press, and will be announced at the Annual Meeting of May, 1957.

Through the years the Academy has maintained close contact with the Los Angeles Museum and, since 1929, has maintained an office and official mailing address at the Museum. All back issues of the Bulletin and Memoirs are now housed in the Museum. The large library that has accumulated through the years by exchange for the Bulletin has been made a gift to the Museum and all exchange material goes directly into the Museum Library upon arrival. Gifts of scientific material have included—in addition to the fossils collected at Rancho La Brea in 1909 and 1910: a collection of over 1100 South Sea Islands ethnological objects; large botanical and entomological collections; and, in quite recent years (1955), one-half of the Jane Everest Gregory Collection of over 3000 sets of European fossil shells, the other half presented to the University of California at Los Angeles. Indirectly the Academy has also been responsible for the gifts to the Museum of the Anstruther Davidson collection of over 4000 plant specimens, and the Hasse Collection of lichens.

## MEMBERSHIP

Membership in the Academy has always included both professional scientists and those with only an interest in science. In fact, it has been one of the purposes of the Academy to spread scientific knowledge to the public. As a special encouragement to students, a Junior membership was established in 1950 at a reduced fee. Life memberships are available for those who contribute \$100 to the Endowment Fund. At one time those who made a large financial contribution to the Academy (either by gift or bequest) were

listed as Benefactor Members or Patrons. However, the present By-laws do not officially provide such a category.

Honorary memberships have, from time to time, been conferred on scientists of national or international renown who are not regular members; and Honorary Life memberships have been awarded to regular members who have rendered exceptional service to the Academy. For those members who have contributed outstandingly to the scientific world, recognition is afforded by conferring of the title, or "degree" of Fellow. At the time of incorporation there were 45 Fellows, three Life members and six Honorary members. A total of 113 persons have now received the "degree" of Fellow, of which 31 are still living. Twenty-seven Honorary memberships have been conferred. Seven persons had been listed as Patrons before the category was discontinued.

The records have been diligently searched, and it is believed that the following lists of Fellows, Honorary Members and Patrons are complete for the history of the Academy. The list of Life Members refers only to those now living.

## FELLOWS\*

Dr. H. J. Andrews  
Paul Arnold  
Dr. C. A. Bailey  
Bernhard R. Baumgardt  
Dr. Mars F. Baumgardt  
George H. Beeman  
Robert Leroy Beardsley  
\*Dr. A. Weir Bell  
\*Dr. Elmer Belt  
\*Dr. Lyman Benson  
Arthur Burnett Benton  
Dr. Herbert M. Bishop  
G. A. Bobrick  
Charles B. Boothe  
Gail Borden  
Prof. Frank P. Brackett  
Dr. Norman Bridge

\*Those marked with \* are living

William Alanson Bryan  
Dr. F. D. Bullard  
W. A. Butterworth  
Dr. Jessie A. Cady  
C. J. Callahan  
William J. Canfield  
Dr. Ford Ashman Carpenter  
\*Dr. Preston Kline Caye  
J. F. Chamberlain  
Dr. H. D. Cheney  
Hon. W. A. Cheney  
Dr. Edith J. Claypole  
\*Dr. Thomas Clements  
Holdridge Ozro Collins  
\*Dr. John Adams Comstock  
Dr. Theodore B. Comstock  
Dr. Anstruther Davidson  
Dr. H. J. Davis  
Prof. Melville Dozier  
\*Dr. Jean Delacour  
\*Prof. Carl J. Drake  
\*Dr. William H. Easton  
Charles Lincoln Edwards  
\*Dr. Clyde K. Emery  
Dr. Robert Dudley Emery  
Dr. Alfred Fellows  
\*Joseph B. Ficklen III  
Charles R. Fletcher  
Prof. James A. Foshay  
Prof. James Zacchaeus Gilbert  
O. K. Goodwin  
Herbert J. Goudge  
\*Dr. Wendell O. Gregg  
Dr. John R. Haynes  
W. A. Hendryx  
\*Dr. Howard R. Hill  
\*Dr. W. A. Hilton  
John Daggett Hooker  
\*Dr. Arthur D. Howard  
\*Dr. Hildegard Howard  
A. S. Hoyt  
Dr. West Hughes  
Dr. J. C. Hunt

Irving E. Ingraham  
Dr. J. H. Johnson  
\*Dr. George R. Johnstone  
Samuel J. Keese  
Abbott Kinney  
William H. Knight  
Dr. Carl Sumner Knopf  
Prof. E. L. Larkin  
Dr. J. M. Lee  
Dr. William L. Lloyd  
Alvin H. Low  
Malcolm Macleod  
\*E. A. McGregor  
Prof. E. S. McClellan  
Dr. A. L. McLeish  
Dr. F. C. E. Mattison  
Dr. J. D. Moody  
Mrs. R. O. Moody  
\*Dr. Philip A. Munz  
Dr. J. C. Nevin  
George W. Parsons  
W. C. Patterson  
\*Theodore Payne  
Dr. Carl H. Phinney  
\*Dr. W. Dwight Pierce  
Mrs. T. A. Rendall  
\*Dr. Irving Rehman  
Paran F. Rice  
James John Rivers  
Dr. James R. Rogers  
Harry K. Sargent  
\*Ruth D. Simpson  
\*O. C. Smith  
\*Eugene Graywood Smyth  
William A. Spalding  
\*Kenneth E. Stager  
Lewis Swift  
\*Dr. R. H. Swift  
G. Major Taber  
Dr. Dain L. Tasker  
\*Bonnie Templeton  
Prof. Albert B. Ulrey



Dr. L. G. Vischer  
 John S. Vosburg  
 E. M. Wade  
 Dr. Guy W. Wadsworth  
 William L. Watts  
 \*Dr. Louis C. Wheeler  
 Dr. Clement A. Whiting  
 \*Russell S. Woglum  
 \*Dr. Sherwin Francis Wood  
 John Woodbridge  
 Dr. S. M. Woodbridge

### HONORARY MEMBERS

Mrs. Hector Alliot  
 Bernhard R. Baumgardt  
 George H. Beeman  
 Mrs. Mary S. Beeman  
 Frank P. Brackett  
 S. E. Coleman  
 Holdridge O. Collins  
 \*John A. Comstock  
 Theodore B. Comstock  
 Lee De Forest  
 †Walt Disney  
 P. Giovanni Hagen  
 George Ellery Hale  
 \*G. Allan Hancock  
 D. Josef von Hepperger  
 \*Howard R. Hill  
 J. H. Maiden  
 A. J. McClatchie  
 J. J. Montgomery  
 \*Vere Radir Norton  
 S. B. Parish  
 \*John R. Pemberton  
 \*W. Dwight Pierce  
 G. W. Ritchey  
 Lewis Swift  
 Edmund Weiss  
 Lorenzo C. Yates

\*Living Honorary Life Member

†Living Honorary Member

### PATRONS

Bancroft Etz Beeman (estate)  
 Mira Hershey (estate)  
 John Daggett Hooker  
 Elizabeth Hornung, in memory of her husband,  
 Dr. John Hornung  
 Wilhelm Schrader (estate)  
 John S. Vosburg  
 Julia Gertrude White (estate)

### LIFE MEMBERS

(Living)

Mrs. Kenneth Bechtel  
 Cylda K. Emery  
 Mrs. M. P. Moll  
 E. O. Palmer  
 Theodore Payne  
 O. C. Smith  
 R. H. Swift  
 Bonnie C. Templeton

### MEMORIAL FUND

The Memorial Fund honors the following  
 deceased members

Mrs. Hector Alliot  
 H. J. Andrews  
 Raymond J. Barber  
 H. S. Brode  
 Fred E. Burlew  
 Wm. L. Lloyd  
 James C. Marsh  
 Robert A. Millikan  
 John Poindexter  
 Fritz Schmidt  
 John Shanks  
 Sylvia Sonin  
 John Lovell Sperry  
 Chester Stock

## BIOGRAPHIES

Biographical data concerning outstanding members of the Academy may be found in the Bulletin of the Southern California Academy of Sciences as follows:

H. J. Andrews, vol. 52, p. 76  
Bernhard R. Baumgardt, vol. 34, p. 161  
Arthur B. Benton, vol. 26, p. 71  
Wm. A. Bryan, vol. 41, p. 115  
Bancroft E. Beeman, vol. 14, p. 27  
Fred E. Burlew, vol. 54, p. 110  
Ford A. Carpenter, vol. 46, p. 90  
Holdridge O. Collins, vol. 26, p. 51  
Theodore B. Comstock, vol. 15, p. 7  
Melville Dozier, vol. 35, p. 180  
Anstruther Davidson, vol. 31, p. 19  
Frank S. Daggett, vol. 19, p. 42  
Robert D. Emery, vol. 48, p. 94  
John D. Hooker, vol. 10, p. 43  
Herbert J. Goudge, vol. 28, p. 34  
Mrs. Mary E. Hart, vol. 20, p. 42  
James Z. Gilbert, vol. 44, p. 136  
John Herman, vol. 51, p. 21  
John Hornung, vol. 29, p. 145  
Samuel J. Keese, vol. 27, p. 54  
Wm. H. Knight, vol. 24, p. 54  
Carl S. Knopf, vol. 41, p. 111  
Wm. L. Lloyd, vol. 53, p. 122  
James C. Marsh, vol. 53, p. 180  
E. C. Nevin, vol. 12, p. 42  
Wm. W. Orcutt, vol. 41, p. 109  
George W. Parsons, vol. 32, p. 38  
Wm. A. Spalding, vol. 40, p. 167  
Lewis Swift, vol. 12, p. 41  
James J. Rivers, vol. 13, p. 16  
G. Major Taber, vol. 20, p. 39  
Wilhelm Schrader, vol. 32, p. 39  
Wm. L. Watts, vol. 20, p. 37  
George Willett, vol. 44, p. 140

## MONTHLY DINNER MEETING

Dinner Meetings of the Academy are held on the 3rd Friday of each month, except the Annual Meeting in May, which is held on the 1st Friday.  
Time: 6:30 P.M.

Except in May, or when specially notified, the meetings will be held on the ground floor of the Los Angeles County Museum, in Exposition Park, at the southeast corner of the building. Parking is permitted in the Park, or in the Museum parking lot at the rear of the building.

Dinners for \$1.25 are served at 6:30 in the Cafeteria (Parking Lot entrance), followed by adjournment to the Lecture Hall at 7:30.

Each meeting will be in charge of a different Science Section, with a Program Chairman of the day.