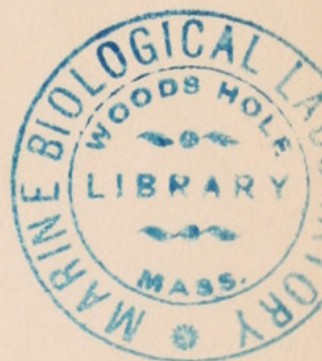


PROCEEDINGS
OF THE
CALIFORNIA ACADEMY OF SCIENCES
FOURTH SERIES

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May 29, 1931



XIII
REPORT OF THE PRESIDENT OF THE ACADEMY
FOR THE YEAR 1930

BY
C. E. GRUNSKY
President of the Academy

Following the usual practice, attention will first be directed in this report to the Academy's membership. There has been but little change in the total, despite the fact that a special effort brought in about 150 new members.

The members are classified as follows:

Patrons.....	19
Honorary Members.....	15
Life Members.....	94
Fellows.....	63
Members.....	923
Junior Members.....	10
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Total.....	1124

Of these:

7 Life Members are also Fellows.....	7
4 Patrons are also Life Members.....	4
1 Fellow is also an Honorary Member.....	1
3 Fellows are also Patrons.....	3
1 Patron is not a member.....	1
<hr/>	
Total.....	16
<hr/>	
Actual Membership.....	1108

May 29, 1931

On January 1, 1930, the number of members stood at.....	1086
New Members were added during the year.....	150
Members lost by death.....	27
Members resigned.....	43
Members dropped (non-payment of dues).....	58
	—
	128
Net gain during year.....	22
	—
Leaving the membership on January 1, 1931, at.....	1108

The Academy carries on its list of benefactors the following names :

Deceased

Mr. James Lick

Mr. Ignatz Steinhart

The Academy carries on its list of patrons the following names :

Living

Mr. George C. Beckley

Mrs. Albert Koebele

Dr. Frank E. Blaisdell

Mr. A. Kingsley Macomber

Mr. William B. Bourn

Mr. John W. Mailliard

Hon. William H. Crocker

Mr. Joseph Mailliard

Mr. Peter F. Dunne

Mr. M. Hall McAllister

Miss Alice Eastwood

Mr. G. Frean Morcom

Dr. Barton Warren Evermann

Mr. William C. Van Antwerp

Mr. Herbert Fleishhacker

Mr. Edward P. Van Duzee

Hon. Joseph D. Grant

Dr. E. C. Van Dyke

Mr. Edward Hohfeld

Deceased

Mr. William Alvord

Mrs. Charlotte Hosmer

Mr. Charles Crocker

Mr. Ogden Mills

Mr. W. M. Giffard

Mr. Alexander F. Morrison

Mr. John W. Hendrie

Mr. Amariah Pierce

Mr. William F. Herrin

Dr. John Van Denburgh

Mr. Henry M. Holbrook

Academy members who were called by death in 1930 are as follows:

Dr. Thomas Addison.....	Member.....	April 5, 1930
Mr. Harry Babcock.....	Member.....	February 24, 1930
Mr. Robert C. Bolton.....	Member.....	August 25, 1930
Mr. Elisha Brooks.....	Life Member.....	May 11, 1930
Mr. James F. Campbell.....	Member.....	January 3, 1930
Mr. Warren D. Clark.....	Member.....	May 9, 1930
Prof. John N. Cobb.....	Member.....	January 13, 1930
Dr. Lawrence A. Draper.....	Member.....	January 3, 1930
Mr. A. L. Duncan.....	Member.....	August 19, 1930
Col. George C. Edwards.....	Life Member.....	November 19, 1930
Mr. A. W. Foster.....	Member.....	October 14, 1930
Mr. Wm. J. Gilliland.....	Member.....	November 30, 1929
Mr. William Herrmann.....	Member.....	September 30, 1930
Mr. Leonard Howarth.....	Member.....	May 12, 1930
Mr. W. B. Lewis.....	Member.....	August 26, 1930
Mr. A. S. Mangrum.....	Member.....	September 3, 1930
Mr. Stephen T. Mather.....	Member.....	January 22, 1930
Dr. William D. Matthew.....	Member.....	September 24, 1930
Mr. Robert S. Moore.....	Member.....	February 16, 1930
Mr. John Partridge.....	Member.....	August 14, 1930
Capt. Albert H. Payson.....	Member.....	January 25, 1930
Hon. James D. Phelan.....	Life Member.....	August 7, 1930
Mr. G. P. Rixford.....	Life Member.....	October 27, 1930
Mr. J. H. Skinner.....	Member.....	June 12, 1930
Mr. William H. Talbot.....	Member.....	November 5, 1930
Mr. John I. Walter.....	Member.....	March 5, 1930
Dr. Lucy M. F. Wanzer.....	Life Member.....	October 20, 1930

In the year 1930, eleven free lectures were delivered at the stated meetings of the Academy, as follows:

- JANUARY 2. "The Horsetown Formation of California." By Mr. Frank M. Anderson, Honorary Curator, Department of Paleontology, California Academy of Sciences.
- MARCH 5. "A Sub-arctic Summer." Illustrated. By Mr. Harry S. Swarth, Curator, Department of Ornithology and Mammalogy, California Academy of Sciences.
- APRIL 2. "A Visit to the Desert and Forests of Australia." Illustrated with motion pictures. By Mr. Joseph R. Slevin, Curator, Department of Herpetology, California Academy of Sciences.

- MAY 7. "A Panamanian Pasear." Illustrated. By Mrs. M. E. McLellan Davidson, Assistant Curator, Department of Ornithology and Mammalogy, California Academy of Sciences.
- JUNE 4. "Bird Banding." By Mr. Joseph Mailliard, Curator Emeritus, Department of Ornithology and Mammalogy, California Academy of Sciences.
- JULY 2. "Flags." Illustrated. By Mr. C. B. Lastreto, San Francisco.
- AUGUST 6. "The Proposed Salt Water Barrier in the Upper Bay Waters." By Dr. C. E. Grunsky, President, California Academy of Sciences.
- SEPTEMBER 3. "Floral Zones of the California Deserts." Illustrated. By Mr. John Thomas Howell, Assistant, Department of Botany, California Academy of Sciences.
- OCTOBER 1. "Seventh International Ornithological Congress, Amsterdam." By Mr. Harry S. Swarth, Curator, Department of Ornithology and Mammalogy, California Academy of Sciences.
- NOVEMBER 5. "Our South Sea Islands." Illustrated by motion pictures and stereopticon slides. By Mr. Alvin Seale, Superintendent of the Steinhart Aquarium of the California Academy of Sciences.
- DECEMBER 3. "A Report on My Trip to the International Botanical Congress." Illustrated. By Miss Alice Eastwood, Curator, Department of Botany, California Academy of Sciences.

The Sunday afternoon lectures at the Museum building were continued throughout the year except during the vacation months of summer. Despite the inadequacy of the temporary lecture room, the attendance at these lectures has been satisfactory. These lectures have included the following:

- JANUARY 5. "With a Moving Picture Camera in Africa." Illustrated. By Dr. E. C. Franklin, Professor of Organic Chemistry, Stanford University.
- JANUARY 12. "East Winds." By Mr. E. A. Beals, Consulting Meteorologist, Alameda, California.
- JANUARY 19. "Aviation and Meteorology." Illustrated. By Mr. D. R. Reed, Assistant Forecaster, United States Weather Bureau, San Francisco.

- JANUARY 26. "The Climate of the Pacific Northwest." By Mr. Melvin B. Summers, in charge of the Seattle Weather Bureau and Climatological Service of the State of Washington. At present with the San Francisco office.
- FEBRUARY 2. "Indians of Yosemite and Their Legends." Illustrated. By Mr. Ansel F. Hall, Chief Naturalist, National Park Service.
- FEBRUARY 9. "Geology of the Lassen Region." Illustrated. By Mr. Harold Stein, Field Executive, Boy Scouts of America, San Francisco.
- FEBRUARY 16. "Personal Experiences with Black and Grizzly Bears." Illustrated. By Mr. Joseph Dixon, Economic Mammalogist, University of California, Berkeley.
- FEBRUARY 23. "Prehistoric Peoples of the Southwest." Illustrated. By Mr. Ansel F. Hall, Chief Naturalist, National Park Service.
- MARCH 2. "An Engineer's Trip to Japan and Adjacent Countries." By Dr. C. E. Grunsky, President of the California Academy of Sciences.
- MARCH 9. "Desert Insects." Illustrated. By Dr. E. C. Van Dyke, Curator Emeritus, Department of Entomology, California Academy of Sciences.
- MARCH 16. "Some Problems in Game Conservation." Illustrated with motion pictures. By Dr. H. C. Bryant, Director, Bureau of Education, California Division of Fish and Game.
- MARCH 23. "The Amphibians of California." Illustrated. By Dr. Tracy I. Storer, Associate Professor of Zoology, University of California, College of Agriculture, Davis, California.
- MARCH 30. "Game Trails; Steelhead Fishing on the Klamath." Illustrated. By Mr. Paul Fair, in Charge of Exhibits, United States Forest Service, San Francisco.
- APRIL 6. "Tumors." By Dr. William Ophuls, Dean of the School of Medicine and Professor of Pathology, Stanford University School of Medicine.
- APRIL 13. "Recent Advances in Public Health." By Dr. Herbert F. True, Assistant Health Officer, City and County of San Francisco.

- APRIL 20. "Trichinosis and Its Prevention." By Dr. Karl F. Meyer, Director of the Hooper Foundation, University of California Medical School.
- APRIL 27. "The High Cost of Quackery." By Dr. E. L. Gilcreest, Instructor in Surgery, University of California Medical School.
- MAY 4. "General Aspects of Tuberculosis." By Dr. Robert A. Peers, Member of the California Department of Public Health.
- MAY 11. "Pain." By Dr. John Homer Woolsey, Assistant Clinical Professor of Surgery, University of California Medical School.
- MAY 18. "The Cost of Being Sick." By Dr. Morton R. Gibbons, Lecturer on Medical Aspects of Insurance, University of California Medical School.
- OCTOBER 5. "Fur Seals: A Million Dollar Business." Illustrated. By Dr. George Haley, Professor of Biology, St. Ignatius College, San Francisco.
- OCTOBER 12. "Control of Predatory Mammals." Illustrated. By Dr. E. Raymond Hall, Curator of Mammals, California Museum of Vertebrate Zoology, University of California.
- OCTOBER 19. "George Washington's First Wish." By Mr. Edward Berwick, Pacific Grove, California.
- OCTOBER 26. "The Way Wild Animals Do Things." Illustrated. By Dr. W. E. Ritter, Professor of Zoology, Emeritus, Scripps Institution of Oceanography, La Jolla, California.
- NOVEMBER 2. "California Floral Zones." Illustrated. By Mr. John Thomas Howell, Assistant, Department of Botany, California Academy of Sciences.
- NOVEMBER 9. "Game Birds of California." Illustrated. By Mr. Donald McLean, Field Naturalist, California Fish and Game Commission.
- NOVEMBER 16. "African Big Game." Illustrated. By Mr. N. B. Livermore. Member Board of Trustees, California Academy of Sciences, San Francisco.
- NOVEMBER 23. "Our National Parks." Illustrated. By Colonel John R. White, Superintendent, Sequoia National Park, California.

- NOVEMBER 30. "Reptiles and Amphibians, with especial Reference to the Rattlesnakes of California." Illustrated with motion pictures and stereopticon slides. By Mr. Joseph R. Slevin, Curator, Department of Herpetology, California Academy of Sciences.
- DECEMBER 7. "A New Conception of Health Insurance as it vitally concerns the general public." Illustrated. By Dr. Ralph A. Reynolds, San Francisco.
- DECEMBER 14. "The Mountains and Canyons of the Sequoia National Park." Illustrated. By Mr. Francis P. Farquhar, Secretary Commonwealth Club, San Francisco.
- DECEMBER 21. "The Animal Kingdom: The Reservoir of Disease." Illustrated. By Dr. Karl F. Meyer, Director of the Hooper Foundation, University of California Medical School.
- DECEMBER 28. "The Natural History of Magpies." Illustrated. By Dr. J. M. Linsdale, Research Associate in the Museum of Vertebrate Zoology, University of California.

LIST OF ACADEMY PUBLICATIONS IN 1930

PROCEEDINGS, FOURTH SERIES

- Vol. XVIII, Nos. 17 and 18, pp. 531-586. No. 17—REPORT OF THE PRESIDENT OF THE ACADEMY FOR THE YEAR 1929, by C. E. Grunsky. No. 18—REPORT OF THE DIRECTOR OF THE MUSEUM AND OF THE AQUARIUM FOR THE YEAR 1929, by Barton Warren Evermann. (Issued April 8, 1930.)
- Vol. XIX, Nos. 1, 2 and 3, pp. 1-22. No. 1, pp. 1-6—MARINE MOLLUSCA OF GUADALUPE ISLAND, MEXICO, by A. M. Strong and G. D. Hanna. No. 2, pp. 7-12—MARINE MOLLUSCA OF THE REVILLAGIGEDO ISLANDS, MEXICO, by A. M. Strong and G. D. Hanna. No. 3, pp. 13-22—MARINE MOLLUSCA OF THE TRES MARIAS ISLANDS, MEXICO, by A. M. Strong and G. D. Hanna. (Issued June 4, 1930.)
- Vol. XIX, Nos. 4 and 5, pp. 23-56, plates 1-3, 4 text figs. No. 4, pp. 23-40, plate 1, 4 text figures—SOME RISSOID MOLLUSCA FROM THE GULF OF CALIFORNIA, by Fred Baker, G. D. Hanna and A. M. Strong. No. 5, pp. 41-56, plates 2-3—SOME MOLLUSCA OF THE FAMILY EPITONIIDAE FROM THE GULF OF CALIFORNIA, by Fred Baker, G. D. Hanna and A. M. Strong. (Issued July 15, 1930.)
- Vol. XIX, No. 6, pp. 57-64—PLIOCENE DEPOSITS NORTH OF SIMI VALLEY, CALIFORNIA, by W. P. Woodring. (Issued July 15, 1930.)
- Vol. XIX, No. 7, pp. 65-83, 3 text figs.—GEOLOGY OF SHARKTOOTH HILL, KERN COUNTY, CALIFORNIA, by G. Dallas Hanna. (Issued July 15, 1930.)

Vol. XIX, No. 8, pp. 85-93, 7 text figures—FOSSIL BIRD REMAINS FROM THE TEMBLOR FORMATION NEAR BAKERSFIELD, CALIFORNIA, by Alexander Wetmore. (Issued July 15, 1930.)

Vol. XIX, No. 9, pp. 95-104, 1 text figure—THE KILLIFISH OF SAN IGNACIO AND THE STICKLEBACK OF SAN RAMON, LOWER CALIFORNIA, by George Sprague Myers. (Issued July 15, 1930.)

Vol. XIX, No. 10, pp. 105-108—CONTRIBUTIONS TO ORIENTAL HERPETOLOGY IV. HOKUSHU OR YEZO, by Joseph R. Slevin. (Issued July 15, 1930.)

Vol. XIX, No. 11, pp. 109-215, plates 4-15—MARINE ALGAE OF THE REVILLAGIGEDO ISLANDS EXPEDITION IN 1925, by William Albert Setchell and Nathaniel Lyon Gardner. (Issued December 30, 1930.)

HANDBOOK OF THE BIRDS OF GOLDEN GATE PARK, SAN FRANCISCO, by Joseph Mailliard.

ITEMS OF INTEREST

Some notable changes have occurred in the personnel of the Officers of the Academy. Mr. M. Hall McAllister resigned as Treasurer on July 1, 1930. In accepting his resignation, the Board of Trustees passed the following resolution:

"In accepting the resignation of Mr. M. Hall McAllister as a Trustee of the California Academy of Sciences, the Board does so with very great regret and feelings of real loss. During Mr. McAllister's many years of service as a member of the Board, he was ever watchful of the best interests of the Academy. His services as Trustee and Treasurer were of the greatest help to the institution and the Board wishes to express its high appreciation of his deep interest in the welfare of the Academy."

Mr. F. W. Bradley was appointed to fill the unexpired term.

It is also to be noted that after long and faithful service beginning January 6, 1902, Mr. J. W. Hobson retired at his own request from the office of Recording Secretary. His services in this capacity terminated on February 19, 1930. It was with sincere regret that his associates on the Council saw his relinquishment, owing to physical disability, of the duties he had so long performed. His place has been filled by Mrs. J. W. Hobson, who had for some time been assisting Mr. Hobson in the keeping of records and other work connected with the office.

On October 27, 1930, the Academy lost, by death, Gulian Pickering Rixford, for many years a member of the Academy, one time its Recording Secretary, and at the time of his death, Librarian since December 24, 1924. The vacancy caused by Mr. Rixford's death was filled by his son, Dr. Emmet Rixford.

On November 19, the Academy lost, by death, Colonel George Cunningham Edwards, also for many years a member and First Vice-President since January 21, 1907.

Second Vice-President, Otto von Geldern, was appointed to fill the vacancy in the office of First Vice-President, and Dr. Wm. E. Ritter was appointed Second Vice-President.

Donations to the publication fund to be used in the publication of a handbook on the Birds of Golden Gate Park, by Joseph Mailliard, have been made during the year as follows:

Mrs. F. W. Bradley (Mary Parks Bradley)	\$200
Mr. Selah Chamberlain	200
Mr. William H. Crocker	200
Mr. Herbert Fleishhacker	200
Mr. J. D. Grant	200
Mr. Chas. Kendrick	200
Mr. Edward J. McCutcheon	250
Mr. Louis F. Monteagle	200

A donation of \$1,200 to the Department of Botany was made by Miss Alice Eastwood, Curator of that Department. By reason of this donation, Miss Eastwood became a Patron of the Academy.

Mr. McAllister has again contributed the sum of \$100 to the Committee on the Conservation of Wild Life, of which he is Chairman. For some years past he has made a like annual contribution.

The Academy, some time ago, expressed its willingness to cooperate with the Seismological Society of America and has now allotted definite space in the basement of the museum building for the installation of a seismograph. When this is installed the Academy will provide the necessary observer. The installation is being made without cost to the Academy.

Several months ago a representative of Karl Zeiss and Company was in San Francisco to awaken interest in the erection of a Planetarium. The apparatus for a planetarium such

as the Adler Zeiss Planetarium of Chicago, the Fels Zeiss Planetarium of Philadelphia and the Griffith Zeiss Planetarium of Los Angeles, the latter about to be erected, is manufactured and furnished by the Zeiss Company. While no progress appears to have been made in enlisting financial support for this project, opportunity was nevertheless afforded to the Academy to express its interest in the matter and to offer to accept the management of the planetarium if the same be located on some site convenient to the buildings of the Academy in Golden Gate Park.

The popularity of the Steinhart Aquarium has not waned. On Saturdays, Sundays, and holidays, the Aquarium is frequently over-crowded. More floor space is needed for the convenience of visitors and much more tank space is needed for additional material. The aquarium at San Francisco should be second to no other aquarium in this country. Appreciating this fact, an appeal was made to the city authorities several months ago for funds, in the amount of \$750,000, for an extension to the aquarium. This sum would suffice to treble the floor and tank space. It would be a gracious act on the part of the City either out of current funds or by means of a bond issue to provide the money now needed for the enlargement of the Steinhart Aquarium. It is hoped that this view will prevail.

The Academy is about to begin the erection of the first unit of an East Wing in which the Leslie Simson African Mammal collection is to be installed. Material for the exhibits sent from Africa by Mr. Simson is arriving from time to time. Our Curator of Exhibits, Mr. Tose, has recently returned from Africa where he collected material for accessories and made color sketches of the habitats of the wild life which is to be put on display. But here, as in the case of so many of the Academy's activities, not all can be done which should be done. There is a sore lack of funds with which to erect adequate buildings. In the circumstances the Academy has felt impelled to have recourse to its credit and has borrowed some \$255,000 with which to begin the erection of its East Wing. While this entails a large annual outgo for interest, yet it appears fully justified in view of the fact that Mr. Simson has himself turned over to the Academy, or rather has placed

in escrow, property having an aggregate value of about \$150,000, which will offset in some measure the Academy's proximate outlay of capital. While this sum stands as the property of the Academy, the income therefrom must go to Mr. Simson during his lifetime.

In its present quarters the Academy has insufficient space. The collections are expanding in its various departments and even passageways are being over-stocked with cases of research material. In view of this fact and because of the urgent need of extending research activities, the officers of the Academy made an appeal to the Rockefeller Foundation for funds with which to erect all of the proposed East Wing except only the Auditorium. This application has quite recently been denied. Building activities will, therefore, have to be restricted to the first unit, for a time at least, until some one comes to the Academy's aid with an adequate endowment or bequest.

Plans for the East Wing of the Academy have been prepared by Architect Lewis P. Hobart. These had been sufficiently advanced a few weeks ago to permit calling for bids to construct the first unit thereof, which is urgently needed both for the housing of the African mammal exhibits as explained, and for the expansion of the Academy's research activities.

Satisfactory proposals having now been received, it is expected that before the end of this year the building will be available for occupancy.

In this connection a word relating to the finances of the Academy will not be out of place.

The book value of the assets of the Academy appears at \$2,143,629. At the time of the completion of the West Wing of its buildings in Golden Gate Park in 1916, the Academy was in debt about \$350,000. This indebtedness was gradually reduced to \$195,000 at which amount it stood when the new loan was made a short time ago for present building purposes, which, in the course of the current year, will bring the total indebtedness to \$450,000. But as already explained, the increased indebtedness is in part offset by the property received from Mr. Simson and now in escrow for the Academy.

The valuable work being done in the Academy's departments will appear from the several reports of the Director of the Museum, of the Curators of the various departments, and of the Superintendent of the Aquarium. To all of those who have in any way contributed to the Academy's activities, I desire on behalf of our membership for whom I am speaking, to express sincere appreciation. This extends, too, to the services of Attorney Edward Hohfeld who has ever been ready to assist with advice when called upon.

In looking back over the year's activities, some progress is to be noted, but the Academy is still waiting and hoping for an endowment of sufficient magnitude to place it where it belongs,—well up in the front rank of like institutions elsewhere in the world.



Grunsky, C. E. 1931. "Report of the President of the Academy for the year 1930." *Proceedings of the California Academy of Sciences, 4th series* 19, 399–410.

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