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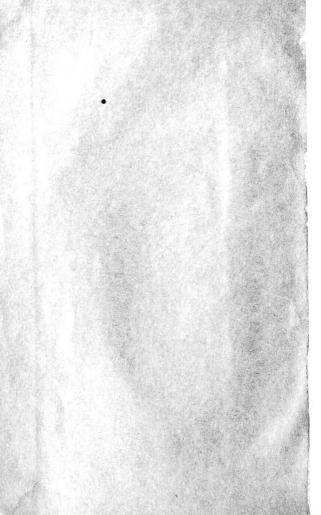
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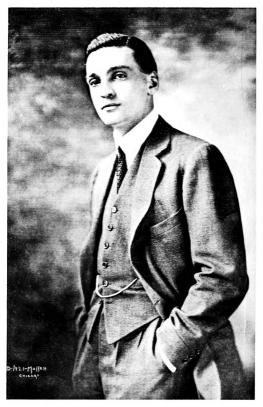


CHICAGO, U. S. A. 1926-1928



UNIVERSITY OF RADICAL LINEAR

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CAPTAIN MARSHALL FIELD

FIELD MUSEUM OF NATURAL HISTORY

PUBLICATION 246

REPORT SERIES

Vol., VII, No. 1

ANNUAL REPORT OF THE DIRECTOR

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FOR THE YEAR 1926

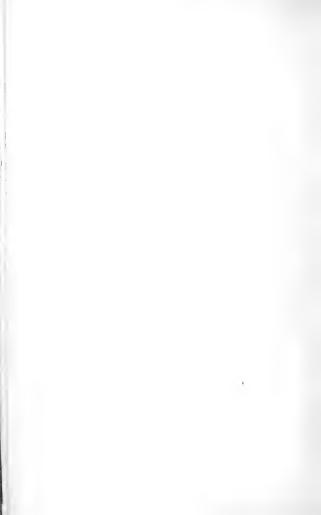


CHICAGO, U. S. A.

January, 1927

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A. L. Kroeber, Research Associate in American Archaeology

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ALBERT B. LEWIS—Melanesian Ethnology
WILLIAM D. STRONG—North American Ethnology and Archaeology

J. Eric Thompson—Mexican and South American Archaeology
W. D. Hambly—African Ethnology
Henry Field—Physical Anthropology

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Elmer S. Riggs, Associate Curator of Paleontology
Sharat K. Roy, Assistant Curator of Invertebrate Paleontology

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WILLIAM J. GERHARD, Associate Curator of Insects
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H. BOARDMAN CONOVER. Associate in Ornithology

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ALFRED C. WEED—Fishes
EDMOND N. GUERET—Osteology

ALFRED M. BAILEY, Assistant

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ASHLEY HINE-Birds

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A. B. WOLCOTT. Assistant Curator

Fine Liverage Libertus

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ANNUAL REPORT OF THE DIRECTOR

1926

To the Trusteen of Field Museum of Natural History

I have the honer to present a report of the operations of the Museum for the year ending December 31, 1926.

The year has been especially noteworthy in the atmais of the Institution for the unprecedented amount of scientific work understaken, and for the important results obtained from these activates. These results include both the collection of rare and valuable material for the Museum itself, and contributions to the world's general fund of knowledge through discoveres made by expeditions and research work conducted by the Museum.

The extension of the scope of scientific expeditions, research work, publications and exhibits has brought about further development of the Museum as an outstanding educational establishment. Trails were blazed into various parts of the world by some axteen expeditions during the year. A large part of this extramural activity, so exactical to the Museum's proper expansion, was made possible by the generosity of Captain Marshall Field.

There has been continued evidence during the year of deepening interest in the Museum on the part of visitors and students.

President Stanley Field contributed \$50,715 towards the Building Deficit Fund, and continued his annual contribution for the maintenance of the Stanley Field Plant Reproduction Laboratories, of which he is the patron. Expenditures for the year exceeded income by \$13,059.40, and this budget deficit was absorbed by President Field.

One of the most notable purchases of the year is a valuable collection of Chinese archaic pades, which was brought together in China by A. W. Bahr. This collection was bought from Mr. Bahr for \$75,000, towards which Mrs. George L. Smith contributed \$10,000. Others who contributed funds for this purchase are Miss Kate S. Burkingham, Mrs. John J. Borland, Mr. Martin A. Ryerson, Mr. Martin C. Schwab, Mr. Julius Rosenwald, and Mr. Otto C. Doering.

One of the last important tasks performed for the Museum by the late Carl E. Akeley was the installation of his admirable Lion Spearing Group, which was presented to the Institution by Mr. Richard T. Crane, Jr. Mr. Crane also defrayed the expense of the installation of this group.

A contribution of \$6,000 was made by Mr. Charles R. Crane towards the expense of publishing "The Birds of the Americas," and a further and final sum of \$6,500 for this purpose was received from Mr. Crane, bringing his total contribution for this publication to \$37,200.

Mr. Edward E. Ayer contributed \$1,000 for the purchase of additional books for the Ichthyological Library, and continued his contributions of books to the Ornithological Library. In addition he continued his gifts to the Edward E. Ayer Pewter Collection, adding thirty-four interesting objects during the year.

Mr. William J. Chalmers supplemented his contributions for the purchase of additional specimens for the William J. Chalmers Crystal Collection.

Funds which enabled the Museum to accept an invitation to place an exhibit in the Sesquicentennial International Exposition at Philadelphia, were contributed by Mr. Albert W. Harris. The exhibit was installed in a special booth in the Palace of Education at the Exposition, and presented various features of the N. W. Harris Public School Extension work of the Museum.

A further contribution of \$10,000 was made by Mr. James Simpson towards defraying the final expenses of the James Simpson-Roosevelt Central Asia Expedition of Field Museum, which was completed during the early months of the year.

The Museum is indebted to the American Friends of China for their action in appropriating one-half of their annual income from members towards the development of the Chinese Section of the Institution.

In addition to his regular annuity of \$100,000, Captain Marshall Field provided \$40,000 to defray the expenses of the Brazilian Expedition under the leadership of Mr. George K. Cherrie. Mrs. Marshall Field III and Mrs. Ernest Thompson Seton were members of this expedition, and the following members of the Museum staff participated:

Dr. B. E. Dahlgren, Acting Curator of the Department of Botany, assisted by J. R. Millar and George Petersen; Professor Henry W. Nichols, Associate Curator of Geology; and Assistant Curator Karl P. Schmidt and Assistant Colin C. Sanborn of the Department of Zoology. References to the success of the expedition, which obtained

valuable betamical, pre-logical and real-gload material, are made elsewhere in this report.

In addition to the regular funds allotted for the continuance of the archive and the second of the March of the second feut of a least to the second of the

A gratifying manufestation of interest in the work of the Museum was displayed in the exsperation accorded by the Chicago Daily News in the sensing of a reological expedition to Abyssima. The Chicago Italy is experienced in the facilities of the superior of the expedition and sent one of its representatives with the party, whose frequently received in a state of a state of the superior is a sensitive with the party, whose frequently is that paper at mean strength of superior is a first paper at the sensitive was specified in a first paper at the sensitive of interest on the party of a circuit for a state party of the superior of the expectation, when a known as I additional Museum of the party of the less treative specifical, and the personnel of the party, which is at an approximation. The chief object of the expectation is the color, of representative specimens of the little known fairm of Allyssima, which is see goodly to an almost vergin field.

After paintaining research, Dr. A. L. Kreeber, who was in charge of the Search Capture Murshall Field Archaeological Expedition to Pero, has successed in establishing the chronological sequence of the uncertaint cultures of Pero. This accomplishment is extremely graphysing for discoveries of this hand stand out as distinct contributions to the advancement of a science.

Mr. Preservi, H. Bawsen financed an expesition to the Subsection regions as for the leadership of Communicate Describ B. MacMillan. This party, knews as the Rawson-MacMillan Subsection of Field Museum experied the costs of Labraiant Expedition for Field Museum experied the costs which carried the expedition has gift back not composed at these logical prolonged at 1 to be a first table for the Museum pure reference to which is expected to other prediction of this report.

Mr. H. Bourtemak Conservand Mr. Robert Fiverard generously in at tested to fluid on the Conserve Fiverard Expedition to Tangan-yello Territory, Africa, for the purpose of so oring for the Massacrates means of mannously, Lods and other combination of eastern and central Africa. The purpose of massacrates of Messrs, Converge of the Conserver of t

Everard, and Assistant Curator John T. Zimmer. According to reports received from the expedition, it is meeting with splendid success.

Other expeditions made during the year included one by Mr. C. J. Albrecht to the State of Washington to secure specimens of Stellar's Sea Lions; another by Mr. Albrecht to Arizona, in which he was accompanied by Artist Charles A. Corwin, to collect a group of Mule Deer; and a geological expedition by Assistant Curator Sharat K. Roy, conducted in the vicinity of Gilboa, New York, to collect remains of fossil trees of the Devonian Period, and invertebrate fossils of that region. Associate Curator Elmer S. Riggs has directed the continuation of the Captain Marshall Field Paleontological Expedition to Argentina, and the season's work has added much valuable material to the collections. Assistant Curator Ralph Linton has continued the work of the Captain Marshall Field Ethnological Expedition in Madagascar with marked success.

An agreement has been entered into with Colonel J. C. Fauntorpe of Bombay, India, whereby he is to secure certain zoological group material especially desired for the Asiatic Hall of the Museum.

A complete X-ray equipment, especially adapted for museum work, has been acquired and installed. The apparatus was presented to the Institution by President Field. This equipment affords an invaluable addition to methods of Museum research, and is now being used in important investigations. It makes possible detailed examination of specimens without dissection and consequent danger of permanent injury to the material; and it is expected to reveal important features in objects of the ancient arts, pathological conditions in mummies, and many other subjects of interest to science. In establishing this Division of Roentgenology the Museum has taken the lead in a new departure in museum practice. The Division is provided with an operating room, dark room, and complete fittings.

Additional costly photographic equipment was provided for the Division of Photography and Illustration, which will increase the productiveness and efficiency of that Division.

The second portion of the Navajo meteorite was purchased by the Museum during the year, bringing the total weight of this fall to 4,800 pounds. This is a notable fall, and is complete except for a few fragments. It is an addition of considerable importance to the total weight of meteoritic matter in the Museum.

During the spring, summer and fall, the Museum, for the second time, maintained an exhibit of native plants and flowers of the Charge region. The collection was located in Stanley hield Hall.

This effort to develop in children of the only an interest in man, ethera excited times commendation from organizations such as the
Wad Flower Preservation Society, and it is secret, has after made a
get to the Museum of funds for maintenance of a similar earliest in
1927 and subsequent seasons.

Obser, at least made during 1926 demonstrated that public interest is the Pe'yteman collection, which was installed a Hall Fin 1925.

growing as it becomes better known.

An anisotation made during the year was the series of a standard manage concerts given by the Gardon String Quartet, a the James Simps Theatre index the automore of Mrs. Linabert Sprague Coolings These proved very popular, and were attended by a total of 4,406 persons. The use of the theatre was granted also to the Chicago Chamber Music Society, the, for a second series of concerned as Suchalay affectiveness. Attendance at the lines three of those totalled 2,034; the final three were scheduled for 1927.

In recognition of the eminent service they have rendered to be the title 5.7 wing were casted Honorary Members of the Miean Mr. Lines H. Breasted, Mr. Chauthey Keep, and Mr. Honor

E. Sargent.

In appreciation of their emittent services to the Museum, the following were elected Patrons of the Institution Mr. Carl E. Akeley, Mr. Waiser, F. Bhar, Mr. George K. Cherne, Mr. H. E. Concover, Mr. C. Suydam, Cutting, Mr. Duncan S. Ell-worth, Mr. Charles E. E. ph., Professor Stephen Langdon, Mr. John J. M.; v., and Mr. Frederick H. Rowson.

The death of Mr. Aleiev, which oscurred in the Belman Course in November 17, two days after his election as a Patron, closed a long and a stopy intel carser of scientific effort. Mr. Aleiev, it will be remembered, who chef tax derinat of the Massach two 1899 and during that time as also are elso departure from the Massach staff remeired conspicuous services but to the institution and to the wild of science as a whole. His locality at the tax that by the members of the administrative and scient to the first of the Massach

The Massacro was hetered during the year by the control of several during when His Royal Highteen Guetal Adult, Crean Prince of Sweden with was elected an Honorary Member of the Institution, and Her Majoriy, Queen Marie of

A push has been developed for a darg in the presentation of the subject of historial product in a larger water which a series of

twenty-eight large paintings will be executed on the walls of the Hall devoted to that branch of geology, Mr. Charles R. Knight, well known as a foremost artist in this line, has been engaged for this work. The paintings will represent typical scenes of the earth and its life during past geological periods. They were made possible by the interest in the Museum of Mr. Ernest R. Graham. In recognition of his generosity the Hall of Historical Geology will be named Ernest R. Graham Hall.

Additions made to the staff of the Museum during the year were as follows: Mr. William D. Strong, appointed Assistant Curator of North American Ethnology and Archaeology; Mr. J. Eric Thompson, of Cambridge, England, Assistant Curator of Mexican and South American Archaeology; Mr. Henry Field, Assistant Curator of Physical Anthropology; Mr. James B. McNair, Assistant Curator of Economic Botany: Mr. W. D. Hambly of London, England, Assistant Curator of African Ethnology; Mr. A. M. Bailey, Assistant in the Department of Zoology; Miss Anna R. Bolan, Roentgenologist; and Mr. Charles A. Corwin, Artist.

Mr. Cleveland P. Grant and Miss Margaret M. Cornell were added to the Raymond Division, Guide Lecture staff.

Dr. Ralph Linton, formerly Assistant Curator of North American Ethnology, has been changed in title and duties to Assistant Curator of Oceanic and Malavan Ethnology.

The temporary services of Professor Samuel J. Record, of Yale University School of Forestry, were secured for the preparation of new labels for the North American Woods Collection.

Leave of absence for ten weeks was granted to Associate Curator C. E. Hellmayr, so that he might attend the Sixth International Ornithological Congress at Copenhagen, and visit European museums for further study and comparison of types of birds.

During the Eucharistic Congress, held in Chicago June 20 to 24, a large section of the ground floor, the James Simpson Theatre, the lecture hall, and certain offices of the Museum were allotted for the use of the dignitaries of the church. The convenience of the Museum to Soldiers' Field, where masses were held, made this a real service to great numbers of churchmen. Also during the Eucharistic Congress, a collection of sacred relics from Ireland was placed on exhibition in Stanley Field Hall, and proved to be of great interest to the throngs who attended the congress.

A new method of exhibiting habitat groups of mammals with scenic backgrounds has been adopted. The cases are treated archi-



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10 essential features of the illumination of their groups have been a left plane in the cases containing the "Four Seasons Districtions,"

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A series of cases with a total length of 120 feet was constructed,

the four walls of Hall 25, containing the Edward E. Ayer

Feet's 1,

Ly 1 is employed here so that the important features of each pace are
placed to advantage with respect to this light, and each label can be

feed.

A contract was entered into to supply live steam for heating or a rooms and grows in Soldiers' Field. Nece sary attention has been to the maintenance of the Museum building, both interior of the steam of the steam

LICIUM AND ENDERLANMENTS

 and Autumn months. The Museum takes this occasion to thank the scientists and explorers whose participation made these courses successful. Following are the programs for both courses:

March 6—"Hunting Big Game in the Rocks."

Mr. Arthur Sterry Coggeshall, Carnegie Museum, Pittsburgh.

March 13—"Bermuda."

Mr. Carveth Wells.

March 20—"Our Wild Flowers and Their Haunts." Mr. Edward C. Avery, Buffalo.

Mr. Edward C. Avery, Buffalo.

March 27—"Rock-dwellers of Lower California."

Mr. Ford Ashman Carpenter, Los Angeles.

April 3—"Tracing the Frontier of Alaska."

Mr. Asa C. Baldwin, New York.

April 10--"American Bird Life."

Mr. Norman McClintock, Pittsburgh.

April 17—Lecture postponed.

April 24—"On the Road to Timbuktu." Colonel E. Alexander Powell.

September 25—"Bird Mannerisms."

Dr. Lucius C. Pardee, Chicago.

October 2—"Explorations in Borneo and Nias." (Arthur B. Jones Malayan Expedition, 1923.)

Dr. Fay-Cooper Cole, Leader of the Expedition.

October 9—"Life Through the Ages."

Mr. Charles R. Knight, New York.

October 16—"The Truth about the South Seas."

Dr. Frederick L. Washburn, University of Minnesota.

October 23—"The James Simpson-Roosevelt Central Asia Expedition."

Mr. George K. Cherrie.

October 30—"With John Muir in the California Sierras." Mr. Frederick Monsen, Pasadena.

November 6-"The Evening Sky."

Dr. G. Clyde Fisher, American Museum of Natural History, New York.

November 13-"Morocco,"

Mr. Horace Ashton, F.R.G.S.

Jey 142 Janes 2

N. Lari, History, New York.

November 27 "Hers Info among the Blackfort In table." Mr. Walter McClintock, Pittsburgh.

Becember 1 "The Ramon-MacMillon Substitute Expedition of Field Macania"

Communication Databal R. MacMallan.

December 11 "Secrets of Amazonian Jungles."

Dr. William Montgomery McGovern, London.

The total attendance at these nineless lectures was 22,813 , \mathbf{e}_{s} , \mathbf{r}_{s}

tures were delivered during the year:

January 2 "Archaeological Explorations in Peru." Professor A. L. Kroeber

January 9 "A Bird Sanctuary."

Mr. Jack Maner

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Major to the first term

 T-1s "The James Simport-Research Central Asiatic Expesition of Field Museum of Natural History." Colonel The clare Received:

Mr. Kermit Reservelt.

Mac. 16 "Arrans the Volcanic Region of Ecuador and Downthe Ameron."

Captain G. M. Dyott.
"Rambles in the Roshies with a Naturalist."

Mr. P. Arthur Smell.

O - 124 "The James Simpson-Rousseell Central Asia Expedition.

Mr. George H. Cherrie.

O . . . 21 "Scarne Renading the World: Coal Tar Products."

Dr. Edwin Sheetin.

"One of the Top of the World for Field Museum."
Mr. Kermit Rossevelt.

November 28—"Exploring the Amazons-Orinoco Wilderness." Dr. Alexander Hamilton Rice.

December 5—"The Rawson-MacMillan Subarctic Expedition." Commander Donald B. MacMillan.

December 12—"The Mystery of Mount Everest."
Mr. N. E. Odell.

December 16—"Explorations and Excavations in the Maya Field in 1926."

Dr. Sylvanus Griswold Morley.

Concerts.—A new departure in public entertainment was made by the Museum when, through the generosity of Mrs. Elizabeth Sprague Coolidge, it inaugurated its first series of free Chamber Music Concerts given in the James Simpson Theatre on Sunday afternoons. These concerts, by the Gordon String Quartet, were well received by audiences totalling 4,406 individuals. They were given on the following dates: March 21, March 28, April 11, April 25, May 2, and May 9.

A second series of concerts given on October 17, November 7 and December 19, extended into 1927. This series was presented as a Beethoven Festival under the auspices of the Chicago Chamber Music Society.

AMERICANIZATION PROGRAMS.—The Yale University Press Chronicles of America Photoplays were, as in 1925, made the subject of a series of Americanization programs. The course was as follows:

January 31—"Columbus."
"Jamestown."

February 7—"The Pilgrims."
"The Puritans."

February 14—"Peter Stuyvesant."

"The Gateway to the West."

February 21—"Wolfe and Montcalm."

"The Eve of the Revolution."

February 28—"The Declaration of Independence."

"Vincennes."

March 7—"Daniel Boone."

"The Frontier Woman."

March 14-"Yorktown."

"Alexander Hamilton."

-



A EANYAN-LIKE FIG TREE

Obtained from the Botanical Carden of Georgetown, British Guiana, and recently installed in the Hall of Plant Life

Stanley Field Guiana Expedition, 1922

These films were also used in three case of programs given for members of Mothers' American and a Chaine of the Chicago Board of Education on February 11, July 1 and November 11. The total attendance for the series and the special programs was 11,000.

THE JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURES

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April 17 The Free of the Revention 'A National's Parallee"

April 14 "The Designation of Image 1 and

8-"Daniel Boone." May "Fuel." "Spiders." May 15-"The Frontier Woman." "Temples and Palaces of India." "The Seven Ages of Fishing." May 22-"Yorktown." "Animal Life." "The Silk Worm." 29-"Alexander Hamilton." May "The Spice of Life." "The Growth of Animals," 2-"South America." October 9—"Africa." October 16-"Persia."

October 16—"Persia." October 23—"India." October 30—"China."

November 6—"Japan." November 13—"East Indies."

November 20—"Australia."

November 27—"The South Sea Islands."

In addition to those listed in the regular courses, five special entertainments were given for children. These were as follows:

January 9—A Lecture "My Bird Friends." Mr. Jack Miner.

February 20—Washington's Birthday Program. April 29—"Trailing African Wild Animals,"

December 4—"Grass."

December 11—"Moana of the South Seas."

RADIO TALKS.—Two radio talks were given by members of the Raymond Division. On August 19 Miss Fisher talked over WGN on "Bring Your Children to Field Museum," and on November 17 Mr. C. P. Grant gave the lecture, "The Activities of Field Museum," over station WMAQ.

GUIDE-LECTURERS.—As in previous years, classes from public, parochial and private schools, clubs, conventions, and other groups were given free guide-lecture service. Lectures given in the Museum exhibition halls by the guide-lecturers were of three types: (a) informal talks on announced subjects before 145 groups totalling

5.132 individuals. It lest attendants by appear all appears timent for 1—groups of adults, foliabling 2.115 persons — a special interpretion on Museum calables correlating and their school assets, given to 414 classes within total of 10.225 the lines.

A number of time subjects were unled to the last of extension has tures offered to the Public Schools. The complete has was as follows:

"What We Owe to South America" for Grades off and Th

"Food Fish of the World" for Grades lel and 6H.

"The Story of Iron and Coal," for Grades 5A, 6B, 7B, 7A, 5B, 5A.

"Plax, Cotton and Silk" for Grades 5A, 6ll, and 6A

"Roman Life" for Grades 6B and 8B.

"African Annuals" for Grades 6A and 7A

"The Philippine Islands" for Grades 6A and 7A

"Glimpses of Chanese Lafe" for Grades 6A and 7A.

"North American Indians" for Grades 5A and 7B.

"Activities of Field Museum" for Grade SA.

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Married Land Comp. Area for General Asserts.

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In all, 1,070 lectures, attended by a total of 160,800 individuals, were delivered by the gaide-lecturers during the year.

PUBLICATIONS

the regular series, six publications have been issued, four of the being of the Zoelegical Series. In addition to a special leaflet, or numbers were added to the general leaflet series. To the Memory Series and added to the general leaflet series and dedicated the series of the Memory Series and Series and

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Pub 236 Zee lage of Series, V.J. VIII, Von 1.—11st Amphibians hard Reptiles of Maria Island, West Indian By Karl P. Schmodt August 1926, 19 pages 6 from

Pub Lie Zwing, J. Serber Von VIII. No. 18. Amphibians and Rept. sec. of the factor impress Rosewell AnnuExpedition. By Karl P. Schmidt. August, 1926. 10 pages, 2 zincs.

Pub. 238—Botanical Series, Vol. VI, No. I. Citrus Products, Part I. By James B. McNair. August, 1926. 212 pages, 7 halftones. 19 zincs.

Pub. 239—Zoological Series, Vol. XVI. Catalogue of the Edward E. Ayer Omithological Library, Part I. By John Todd Zimmer. November, 1926. 366 pages, 7 halftones, 1 colored plate.

Pub. 240—Zoological Series, Vol. XVI. Catalogue of the Edward E. Ayer Ornithological Library. Part II. By John Todd Zimmer. November, 1926. 341 pages, 4 halftones.

Anthropology, Memoirs

Vol. II, No. 1. Archaeological Explorations in Peru, Part I: Ancient Pottery from Trujillo. By A. L. Kroeber, Professor of Anthropology in the University of California. 1926. 44 pages quarto size, 4 zincs, 13 photogravures.

LEAFLETS

- Anthropology, No. 23. Ostrich Egg-shell Cups of Mesopotamia and the Ostrich in Ancient and Modern Times. By Berthold Laufer. 52 pages, 9 photogravures, 10 text-figures, 1 cover design. Edition 6.013.
- Anthropology, No. 24. Indian Tribes of the Chicago Region. With special reference to the Illinois and the Potawatomi. By William D. Strong. 36 pages, 8 photogravures. Edition 6,000.

Botany, No. 12. Poison Ivy. By James B. McNair. 12 pages, 6 half-tones, 1 cover design. Edition 6,104.

Zoology, No. 8. Mammals of the Chicago Area. By Colin C. Sanborn. 24 pages, 3 halftones, 19 zincs. Edition 6,010.

Zoology, Special Leaflet No. 1. Lion Spearing. By Carl E. Akeley. 7 pages, 3 photogravures. Edition 5,000.

MISCELLANEOUS PUBLICATIONS

Anthropology, Guide, No. 6 to the Ethnology of Polynesia and Micronesia. By Ralph Linton. 1926. 192 pages, 1 map, 59 text-figures, 14 photogravures.

Museum Manual. 92 pages. Edition 5,000. General Guide. 31 pages. Edition 2,536. I es ', ' - - ' - - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - - ' - ' - - ' - ' - - ' - ' - - ' - ' - - ' - ' - - ' - ' - - ' - ' - - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - ' - '

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There have been as special changes in the work of the Library, but it computes favorably with the years immediately preceding. The activaties of the year work incommitted largely to the routine work. All material has been accessioned as resolved. The individual issues of percedicals and serials received were five thousand four humbred and slaty. The number of carels typewritten and filed in the various entalogues was nine thousand one humbred factors.

Union List of Serials of the Libraries of the United States, in course of publication, has issued eight sections, and the Library continues to the

I have a second of the standard of the stand for work its hand. The following titles indicate some of the more epschalized interest of the various departments:

I ty to American to Barton Millery Dr.

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Hart of Earth to attend the with part, and reference to the Kinggland K. Salteton. Hobson, The George Eumorfopulos collection catalogue of the Chinese, Corean and Persian pottery and porcelain.

Meek, Northern tribes of Nigeria.

Migeod, Through British Cameroons.

Morgan, La préhistoire orientale.

Morse, The chronicles of the East India Company trade to China, 1635-1834, 4 volumes.

Obermaier, Fossil man in Spain, 1925.

Rutter, British north Borneo; an account of its history, resources and native tribes.

Seler, Fray Bernardino de Sahagub. Einige kapitel aus seinem geschichtswerk wortgetreu aus dem aztekischen übertragen. Siren, Walls and gates of Pekin.

Strange, Chinese lacquer, 1925.

Tanner, Chinese jade, ancient and modern.

Williamson, Social and political systems of central Polynesia, 3 volumes.

Flore des serres, 23 volumes.

Griffiths, Palms of British East India.

Hooker, Handbook of New Zealand, 1867.

Pickering, Chronological history of plants.

Rodrigues, Sertum palmarum Brazil.

Davidson, British fossil brachiopods, 6 volumes, 1851-1886.

Goldschmidt, Atlas der krystallformen, v. 1-9.

Hodkin, Glass technology.

Jeffrey, The earth.

Whitbeck, Economic geography of South America.

Walcott, Mary, North American flowers, de luxe edition.

Anderson, Zoology of Egypt.

Hugues, Storia naturale delle scimi.

Maydon, Semen, its heights and abysses; a record of travel and sport in Abyssinia.

Salt, A voyage to Abyssinia, 1814.

Swayne, Trip to Somaliland.

Ward, Record of big game, 8th edition.

Friends of the Museum have been generous in their gifts to the Library, as in past years. In addition to the acknowledgments made at the time these gifts were received, and in the list of accessions accompanying this report, a further expression of appreciation is hereby made to all who have contributed to the collections.

JAN. 1007.

The Library also acknowledges its indebte lines to the libraries from which backs medial by the start have less it burrower.

Over a ternal of years Mr. Hainani H. Aver has been presenting to the Ornsthological Library that bears his name all the valuable ellestrated works pertaining to birds as they became available, and the Library is now in presence of practically all such books, many of them in their beautiful original bindings. Several years ago Mr. Aver error of the guits to cover the purchase of all ornithological a first a ... and the Catalogue just issued from the Massar - . . testifies to the success achieved in finding many rare out fig. . . . Mr. John Todd Zimmer of the zoological staff of the Museum, who compiled it, has produced under the modest title of a catalogue, a valuable addition to our knowledge of omitho-I good literature. The lubbographical notes indicate marvelous test or a in searching for the sources of material of the eleven hun irisi anti re are During the year, more than a hundred titles were race of too late to be incorporated in the catalogue. Mr. Aver has indicated his approval of a further continuance of the search for non-desiderata that are lacking, in order to complete this strained a library.

Among rare items presented during the year are the following:

Aldrovandi, Ornithologiae hoc est de avibus historiae libri XII. Cum septendecim linguarum copiossimo, 3 volumes,

Harrere Omithelesiae specimen focum sice Servicinian in Eusenteen Perenners monthlins, 1745.

Beint ger, Verlage max Index-Orientalles par le vor i de l'Eur pall volumes 1834-1846.

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Fort.5. Les ruses into et les dans lesquelles se cont somment en prend les oyseaux passagers, & les non passagers, 1660.

Ginther Summing von Sesters und eines vers Listener right aus den calameten des 15. Tit. Herrin Gatemen. Hefralt Schmiedels, 1772, 1784.

Har its, 5 der emithelegie, 1846.

Koch, System der baierischen zoologie, v. 1, 1816, all publisted.

Naumann, Naturgeschichte der land-und wasser-vogel des mind der Deutschlands 1 v. man haben in 9 v. man. 178-1-17 Naumann, Naturgeschichte der land-und wasser-vögel des nordlichen Deutschlands, 4 volumes, 6 sup, in 4 volumes, 1797-1817.

As far as is known, these two sets are the only complete ones in this country.

Orbigny, Voyage dans l'Amérique méridionale, 1835-1844.

[Paulsen], Handbuch der ornithologie, 1846.

Poeppig, Reise in Chile, Peru und auf dem Amazonstrome, 1835-1836.

Poey, Repertorio fisico-natural de la isla de Cuba, 2 volumes, 1865-1868.

Piso, Historiae rerum naturalium Brasiliae libri octo, 1648.

Risso. Histoire naturelle des principales productions de l'Europe méridionale, 1826,

Temminck, Manuel d'ornithologie, 1815.

From the Captain Marshall Field Brazilian Expedition the Library has received one hundred and forty-four works of exceptional value to all the members of the expedition, as they will be immediately useful in identifying and classifying the material collected. Some of these publications have been desired by the Library for years, and could be obtained only by the personal efforts of members of the staff while in Brazil. Special acknowledgment is due to Mr. Karl P. Schmidt and Dr. B. E. Dahlgren for the efforts made to secure these publications.

From contemporary societies and institutions have been received the usual number of publications by exchange. A number also have been received from various Russian societies whose activities were in abeyance for some years and which are now re-establishing exchange relations. In addition, a number of current issues were obtained through the Society of Cultural Relations with Foreign Countries. A number of new exchange arrangements, both domestic and foreign, have been effected during the year.

DEPARTMENTAL CATALOGUING, INVENTORYING AND LABELING

Anthropology.—The work of cataloguing in the Department of Anthropology has been continued as usual during the current year, the number of catalogue cards prepared totaling 1,928. These cards are distributed geographically for the accessions during the year as follows: North American archaeology and ethnology, 132: South



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year for additions to the exhibits in the Hall of Plant Life, and for the palms, oils, starches, etc., in Hall 25.

Geology.—Cataloguing of the Borden collection of invertebrate fossils has been continued as opportunity offered. This work has included identification of each specimen, no entry being made until it was known to be based on a satisfactory determination. The number of specimens added in this way to the catalogue during the year was 3,052. The cataloguing of this collection to date has recorded most of the brachiopods, almost all of the blastoids and a large number of the corals and crinoids. Of invertebrate fossils and fossil plants received during the course of the year, 346 specimens were catalogued. Of these, 167 were collected by Assistant Curator Roy, 137 were obtained by exchange, 3 were purchased and 33 were gifts. A total of 3,445 specimens of fossil plants and invertebrates was thus catalogued during the year. The cataloguing of the vertebrate fossils collected by the Captain Marshall Field South American Expeditions in 1922-1923 was continued, about 1,000 specimens being entered. These included about 300 specimens of fossil cones and branches of Araucaria. In cataloguing these specimens, they were grouped according to locality and geological horizon. Of the collections made by Associate Curator Riggs in South America 310 specimens were catalogued. All other accessions were catalogued as received, including 40 specimens for the Chalmers collection. The total number of specimens catalogued during the year was 5,186.

To the Department photographic albums, 262 prints were added and, for the most part, labeled. The total number of these prints in the Department albums is thus increased to 5,233. Seventy topographic maps of the United States Geological Survey were added to this series, making a total of 3,063 U. S. G. S. maps. So far as possible, brief descriptive labels were made of the added maps and filed with them.

From the printer, 463 labels were received and distributed. Of these, 279 were for the amber and mineral collections, 71 for the gem collection, and 74 for exhibits in Stanley Field Hall. Ten labels were installed with the cement plant model in order to define the different units of the model. They were placed below the corresponding objects in such a manner as to identify them without interfering with the view of the model as a whole. In order to harmonize with the case, they were printed in gilt on mahogany. The number of labels written was 312, and of these, five were descriptive, being explanatory

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Zondown. Although 6. Il Treatmen were think in the cutalogue of the Hagaman of Paris, the control of the coninternals through the various expeditions was so large that it was not to said to your fidentiable its prove of the orders, to outside use all of the arress ted. The total number of regular entries was They were divided as follows: Mannals, 1,588, Party, 3,486. Hertiles and Amphibiants, Tody Fishes, Bid; Sheletons, 18, Insect-1.1. Entires in the index card catalogue of mammals numbered 22

The specimens that more labeled more married those parents I form seafter other than by Museum expeditions and members of the stail CALL THE THE THE TANK and Margany. Progress year market published and factors in nation palmins of Design Stell (to here, perfectly facing time AND DESCRIPTION OF THE REAL PROPERTY WAS A DESCRIPTION OF THE PARTY. Will shall display. In the location of expensed from the con-Managed an ear asserting ad invasion and advances. The province inter-The filling transferd printing that prints which other find a read to be the A particular little of the state of the first section and the first section and the state of the

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ACCESSIONS

Astronomics. The near access one reso, of dampy the year 4 for E are of Anthropology amount to 61. Of these 52 are MFWELF as the point of squalters, his services, will be in-Made. These accessors most transcent parts of the philosophic marketing is forced \$150 objects young it privilege of agreemy size

The parties attended and study at the collection products SHIRE METER AND DRIVEN A TIME A STORY OF TAXABLE WAS STOLEN.

of colored glass beads, a pair of seal-skin breeches trimmed with red leather and decorated with designs cut out of colored leather strips. and two pairs of seal-skin boots with leather-appliqué designs and embroidered ornaments. This material was obtained by him when he was leader of the Crocker Land Expedition.

The collection received from the Rawson-MacMillan Subarctic Expedition, made by Commander Donald B. MacMillan in large part, is from the Greenland Eskimo with a smaller collection from the Labrador and Baffin Land Eskimo. The material from the Greenland Eskimo, chiefly of the northwest coast, contains many of the beautiful feather mats made by these people. A very large blanket of the type made for the royal family of Denmark, composed of varicolored skins of many sea-birds is especially notable. Another outstanding acquisition is a completely outfitted Greenland kayak, about 16 feet long, equipped with bone-tipped paddle, harpoon, throwing-stick, killing lance, seal-skin float, and bone rack for harpoon line. The prow, keel and cockpit of the boat are likewise made of bone. In addition to the above, the collection contains carved wooden models of natives in full costume, bone and steatite carvings of animals, models of kavaks showing their construction, models of snow-huts, clothing, utensils of daily life, and hunting equipment. The above are all made by Eskimo craftsmen and many of them are old and rare pieces. The Labrador Eskimo are represented by fur clothing, boots, basketry and utensils of daily life. Many of the Greenland and Labrador specimens are of interest, since they show the results of recent development of the people in their adoption of European ideas. The beautiful costumes of the Greenland Eskimo. with the intricately designed beadwork collars added to the native mode of dressing, are good examples of this modern tendency. Similarly, the skilful wood-carving of the Eskimo craftsmen shows a high degree of artistic merit and exactness in reproducing their models, both human and animal.

The purchase of some fifty odd specimens characteristic of the Winnebago Indians from Mr. Oliver La Mere completes the Museum collections for this tribe. Mr. La Mere is a highly intelligent Winnebago, who has himself written about his own people and has also rendered much useful assistance to ethnologists. The present collection, brought together by him during many years at Winnebago, Nebraska, is very complete and provided with good data. The most interesting feature is the war-bundle of the Thunder Clan with its varied contents. Wrapped in the old native matting are the objects leaders for our of the lead of the lead of the lead to Cents represent the nation of the formation of the first true l'asternation de la contrata de bundle, which is a second of the second of the Crever that are Attack to the control of the contro by but a formation of a factor of the brader just be the root of the four tach of the entire A to the A drill the firemants a control ratio transfer at a fire transfer and a fire transfer and the firemants were all used in sere of except of a colored than a first to a Per Cue sauta un incher mier meer der de file units. Unit juris ment distributed of a function of a management of the author of the and one a year a feart a astead to talletary State a sea title of a are the beader of or one or at a copies four bear and in the which employed in the most into other contents them. There are not inof clothalig the are to abit watto bear wesslet, efections and fection meedica represent the talk feet the people. An interesting to carefully meatined it is a measure and rest thannel, who is was one planet as a love fetish, completes the collection.

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Mrs. France R. Lyterin of Marsitheid Wisconsist presented an interesting war as belt of the Iroquesis mode of sound self-stood participate is a wisconsist and are introduced as five rows and structured of themsels of tail or be just warp of becomes there. The publications are partially diversely and solarizated that they from designs with the properties that it is a firm with a freezembly service solarises. It is troop that they wish is had presented been considered with the form of the first years it made have been mere about the middle of the outstood has a view it.

A predictive of female stone grave contesting of equal states with the element of and pump terminal one posterior are used beauty found in it. from the Element Mounds tear Carbotics on foreign, was pust based from the discoverer. Professor Warren E. Moorenead of Audover, Massarthuse to It is proposed to entitle this grave at a later date in the Hall of North American Actionships.

A fire old red serupe, desorated with geometric designs in black, from Menon, is the gift of Mr. Homer E. Sargetit.

Two shrunken heads, a male and a female, from the Jivaro, Ecuador, were presented by President Field. A collection of 122 prehistoric implements like stone axes, celts, flints, pot-sherds, and animal bones from Argentina and Bolivia was brought back by the First Captain Marshall Field Paleontological Expedition to Argentina and Bolivia.

A total of 1,023 objects was received from Professor A. L. Kroeber as the result of the Captain Marshall Field Second Archaeological Expedition to Peru. The collection consists of 353 pieces of pottery, 201 lots of pottery sherds as found in graves (many broken pieces will assemble into complete vessels), 16 clay objects like figurines, spindle-whorls, and panpipes, 4 metal pieces, 107 lots of skulls and skeletal remains, 153 textiles, 42 objects of wood, and many minor objects of stone, shell, and bone. The painted pottery is especially noteworthy, and will form the key collection for the classification of all Nazca pottery in other museums. A small ethnological collection consisting chiefly of clothing, spindles, slings, etc., was made by Professor Kroeber among the Indians of Huancayo, Province of Huancay, Peru.

An interesting collection from New Zealand of 139 prehistoric stone and bone implements like adzes, arrow-points, spear-points, drill-points, needles, fish-hooks, and flakes was obtained through exchange with the University Museum of Otago, New Zealand. Twenty-four mats of so-called New Zealand flax were ordered for the floor of the Maori Council-house in Hall F, and were obtained through the good offices of Mr. J. McDonald, Director of the Dominion Museum, Wellington, New Zealand.

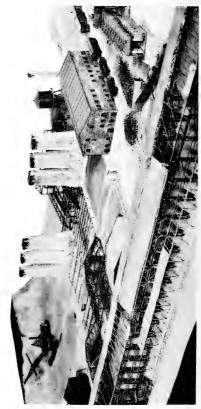
A very instructive collection of fifty chipped stone implements from the extinct aborigines of Tasmania, Australia, was received in exchange with Mr. B. H. Whittle, a resident and collector of the island. On account of their primitive character, these implements, which were gathered on ancient camp sites, may be likened to the crudest productions of the earliest paleolithic stages. The Tasmanians did not haft their implements or weapons, and were ignorant of the hafted stone axe and the stone-tipped spear; they did not advance beyond the rudely chipped scraper and the primitive flaked knife. These are even devoid of symmetry, and are merely flakes of suitable material, usually chert or quartzite, and were simply held in the hand.

The Arts Club of Chicago presented the Museum with five remarkable primitive wood carvings, the figure of a bearded old man from the fire a state of the st

the early of prospering to the property of the March. Tree Figure 1. to Madagase the factor of the 1 The specific to the up to September. The collections include all the ordinary forms of tools and utensils, with many rare objects and good collections of the specialties of all the tribes vonted. Dr. Laster leader of the expedition, wrote in September, "Although I h pe at least to double the number of specimens before my work is fit alet the collection as it now stands is by far the best Madagascar collection in existence. If the work should be terminated to-morrow, I if all st., feel that the expedition had been a success." About at her fred objects form a very complete collection from the Hova. the rast civilized tribe of the island. The outstanding features are the ter or especially the silk mantles dambas, the stone lamps to a cite . . , certian very rare wooden utensils no longer made, a on picte . . . of smulf-boxes showing all forms in ordinary use. a facility and restricted of the contraction with full information on the conassisting the second of the constraint which is protected pour of the tuelve ty a safe ways, and a of Imerica. The a desaload the tank of the tracer will be by for the richest role tour feet a fare at your real real enter the tailer, are stall got indicate at a street and a fit of the factors, while the facthat they have a set to me have for a send good or had led to a grant and a control of the residuatries and the con-They last the reality parties of the House and a would all the mater. The things had been discounted as chadus on the company of the company of the company of wedstype of the process for a state of the process of the process of There were a mining of the particular and the parti The worder over the product of the country was a few these are not begin that for tare to date of after all parentals at ellogreftet ut i ele constatetti i i en constata ett all foursed surface about the control to the former are absolute. especially that paid from will the half the half its fact. Its file latter only and regardless into large transcriptions, ground world to fully soft and beautiful lars it mellow fire oid muts and busines were bought from Radaniel, the last of the Betsileo chiefs. A remarkable black jar, decorated with bold designs in applied strips of clay, and a cream-colored bowl, decorated with designs in red, represent the high points in their pottery making. Some jewelry was also obtained, including old silver beads of a peculiar type, massive silver neck-chains, and old coral and silver ear-rings. The material culture of the Sianaka on Lake Alaotra is much simpler than that of the Betsileo. Their artifacts are well made, but are limited to a few forms. They do some very clever carving of figures in the round. Weaving has been entirely abandoned, but they make the best mats in Madagascar. About 250 specimens were collected, the most important objects being a number of very fine mats, carved miniature paddles (formerly a badge of rank), a set of silver jewelry belonging to the family and worn only at weddings and funerals, and a fine collection of charms and sacred objects, including two sorcerer's staves. Dr. Linton reports he was lucky enough to get also a few examples of the ancient weaving in raffia and one piece of wild silk fabric different from anything seen by him elsewhere. Three small shoe-shaped jars, used by witches and medicine-men for brewing potions, are of especial interest inasmuch as they are identical with a type of pottery found in the ruins of the southwestern United States. The Sianaka collection is practically complete. A good collection of raffia cloths made by the Betsimisaraka was obtained, together with one of the crude treadle looms on which they are now woven. This type of loom is a rather recent innovation, the idea having been taken from the Arabs. The older type of loom is identical with the Hova one. Specimens of all the utensils in ordinary use were collected, also various musical instruments, a paddle, fish traps of two types, etc. From the Tsimahety, whose ancient culture is simple but is still almost intact, no weapons were obtained, for the natives feared that if such things were shown to the collector they would be seized by the government, but the collection is otherwise nearly complete. The most important native products are very strong, flexible baskets of raffia, and raffia cloths for lambas and skirts. The cloths are often mixed with cotton, either commercial or native, and are the finest seen so far. Lambas are usually in natural color, a light tan, with broad striped borders. They are traded as far as Tananarive and bring high prices. A black, graphitecoated pottery of good grade is made, and there are a few cleverly carved staves or canes. The mats of the Tsimahety are identical with those of the Sianaka, although usually somewhat coarser. They still

make considerable use of charms, a fine collection of which was





DETAIL OF MODEL OF A BRICKYARD
Blue lsknd, lilinois
Constructed by H. W. Nichols and Valerie Legault. Gift of William Schlake

obtained, incl. Ing some unique poem. The most remarkable are
the control of a native declar, a warrier's charmone khave control of the policy and silver correspond for charmon, a large
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covers a house, as the hadron behieved it would cause his death. A
man where it was hadden on condition that he carry it off, and
that he did. Thus far, Lorid objects have been recovered in the
Museum from Modula source.

The Chirese section was enriched by a number of valuable gaits. A unique burial clay figury representing a rhinocerus, coming des from the Wei period 'A.D. 386-534 was presented by Mrs. Change & Brand of Change Arthresis work my not in bries engine and a designs derived to the abstract work is the gift of the Young B. Open Clares of the Ming astrenti entre de recordo preferenciaren entre enfrom Chickens program is the track of the street of the st Lot a Alden Carpenter, its president. The screen, measuring 10 feet 4 see es in height and 7 feet 9 inches in width, is carved from pre- and conted with a reddish gold in oper somewhat mellowed by age. It consists of seven panels, all decorated with high reliefs of drawns surring in clouds between the sea and the sky. The central posters dejects the imperial dragon with flaming pearl, while the other as drag ste as he vascals are looking up to him. The same motive is Physical de agree and a series of the control of the state of the series to surmounted. The back is finished with scrolls of floral designs. This screen is said to have formed the background for the imperial throne. A broaded repend tipoett berging and a fragment of reports Supposed the continue the gate of the Structure Provide of China. Change These two falcies were formerly the property of the late Dr. Park Remety C. R. Marrier of Citing George In Wisson about opins, also had respect them that the Copple George ment by recognition or has the transferred and they and there demand of by Mrs Delectic. The Logs become retrocing type by a by her Milepetal petric sitty, histogrand extra 1, tone chapte on the storm memorial by sight study dragon. Lit serve it put brief and prompted by sheet, or two, year, year, but force, hade the being maps in second by the Josephin The deal-worst is treated with year of continuous and an extension of the band patterns and a

remarkable for the beauty and harmony of its color scheme. Both tapestries are authentic and high-grade examples of the Kien-lung period (1736-95). An old Chinese silk fan painted with a landscape and inscribed with a poem was presented by Mr. S. H. Mori, Chicago. Mr. Linus Long of Chicago presented an ivory statuette of the Ming period (1368-1643), personifying the statesman and sage Tung-fang So. To the interest and generosity of Mrs. George T. Smith is due a remarkable collection of South Chinese beadwork consisting of 158 objects. These comprise money belts, pouches, spectacle-cases, baby caps, slippers, and various small pieces for dresses, all decorated with delicate. colored cut glass beads which are sewed onto a foundation of cloth or velvet, forming elaborate patterns of flowers, fruits, birds, animals, and human figures. It was not known heretofore that the Chinese had ever cultivated this art industry on so large a scale and with such great success.

Mr. Edward E. Ayer, with discriminating taste, added thirtyfour interesting objects to his collection of pewter, twenty-seven of which are Chinese. A dish exquisitely shaped into the form of six graceful lotus-petals and exhumed from a grave, dates in the Tang period (A.D. 618-906), and is one of the most artistic pieces of the collection: the corrosion resulting in numerous earth-incrusted pits of the surface is an index of its burial underground for considerable time. A tea-jar of the eighteenth century is decorated with a scene in negative standing out from a background of punched designs. Two very fine trays of the Ming period (1368-1643) are inlaid with elaborate decorations in brass. To the same period belongs a winepot shaped as a carp rising above the waves which are engraved along the base. A covered dish is fitted all over with coconut shell skilfully carved in concentric zones with eight symbols of good luck, four phoenixes, dragons, carp, and lotuses in baskets. Four presentation tea-jars, Japanese workmanship of the eighteenth century, are decorated in gold, red, brown and green lacquer, the gold lacquer design spread over the covers and shoulders being suggestive of a gold brocade cloth tied with a tasseled red cord. Another jar of the same type is decorated all over with a composition of etched chrysanthemums. A hot-water pan of pewter made at Strasbourg in 1858 is a quaint survival of bygone days. A pewter medal or token issued by the Continental Congress in 1776 is presumably the only one of its kind. Its obverse shows the rising sun reflecting its rays upon a dial and accompanied by the device, "Mind your business. Continental Currency 1776." The reverse bears the legend, "American

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the due to petal and and and profession and a sign term of the same Time Market at in tel ted for the entire to be to the formation of the f Mrs. Gorge V St. C. Mr. Part Florida Market Florida hare Mr. Martin fraction. Mr. Co. and Rosen and J. Mr. (1971) C. I seeing and Mr. Martin C. Schwarf. Many of their later with estanted from graves in teach to an integree of high the children attenual affects of the fact and provide a extract fire and ard harmonic for the control was a few management of the test electrical researchancer pages and hardless. descer and if a betramened for it if Surtice A corp beautiful series of the situation of a series of a series and the series of the se description is 1 to the person with an estructional set of at the bridges at Sin Berg in Horas Province. These are of marterly werking to a compact quarty and part to a part and a conof lay charges with the act have to product its the distract beautif the mattered the first majorium for Neuros tweethries of the fold at sets a red builty the or le tien come down from the our less." persons, the Sharp and Or is dynastics. 1784-217 from and on the of numerous carery that amplements had dangers ewends, littless chases, are spear cents done this and tablets used in religious nter particularly in the worstay of the county destress. He wors at 1 Earth. Several but med small carving in the shape of drag is. settletits tigers care, higher buttle, introder, fiches and its acts which were interred with the dead as fulfile hed as ornament, to the grave-clattice are ventable generally afford a rich more of informust be only a time and must begin and read on. This calculable e fe ten was brought together and units by Mr. A. W. Baltr a tide! art expert who has been for runt a peaks at above youth it with the from attitue - lest fr

In Pulse above let. For Lander over the parties are the free petterp former; that the parties Cham and Japan to the Pollipsone Inner have a referred to the location pattery of Lander and other. In the hard the patter, we have a which the Donate pettery are. Mr. It that I be store of the Conternal Management Engine a based and a location of an entire term, but to account the hard petter and pattern of the Conternal Management Parties and parties are better and pattern of the content to the pattern of the pattern of the content to the pattern of the pattern

pottery definitely identified as Namban, which he presented to Field Museum as a mark of his appreciation. One of these, a small jug coated with a brown-black glaze, was obtained by him at Taiping, Formosa, and is believed to have been produced by some kiln in Kwang-tung or Fu-kien Province in southern China. The other piece, a slender jug with a brown iron glaze, was turned out in imitation of old Namban by Mizuno Juzan, a potter still living at Tokunabe near Nagoya, Japan.

Mr. William E. Hague of Chicago presented a very interesting statue five feet high, representing Yama, the god of death of Tibetan Lamaism. Partly of wood and in part of papier-maché, it is preserved in its original colors and is a striking example of expressive and vivid sculpture. Two Lamaist paintings are the gift of Mr. and Mrs. Fred L. Mandel, Chicago.

The collections received this year as the result of the Field Museum-Oxford University Joint Expedition to Kish consist of 315 objects, including many pottery jars, plain, glazed, and painted; many implements of stone, bone, shell, and bronze, and twenty-five skulls which were restored by Mr. Talbot Rice and Mr. L. H. Dudley Buxton, Lecturer in Physical Anthropology at the University of Oxford. The collections also include many finely wrought gold and carnelian beads, cylinder-seals of lapis lazuli, onyx, and carnelian, and fine clay statuettes of mythological figures and animals; among the last mentioned there is the bas-relief of a lion of very high artistic quality.

A small collection of paleolithic flint implements numbering approximately a hundred from quarries near Abbeville and Amiens on the Somme Gravels, France, was presented by Mr. Henry Field. These were collected and acquired by Professor Abbé Breuil and Mr. Field during an examination and study of these terraces. There are some typical Chellean coups-de-poing and a few excellent Levallois flakes in this lot. As these quarries are practically exhausted, collections from this area become increasingly valuable.

Thirty-five chalcolithic flint implements found at Kish, Mesopotamia, and a collection numbering approximately a hundred quartzite implements of the Chellean age from the Taivilla-Tapatanilla site which lies between Algeciras and Cadiz in Southern Spain, are likewise gifts of Mr. Henry Field. These were collected by Professor Breuil, Miss Dorothy Garrod, and Mr. Field during an expedition into the mountains to examine some of the painted caves and rockshelters. The hardness of the material makes the results appear

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Lorenty May true 12 les le contract de la contract presents are alled to the articles of the factoring of between the great level of the little of the of there are no many than it was a second of the second Size Little sees in the principal for the control of the control o grader parties of these collections consists of herbarium specimeneconomic material and additions to the cability numbering 203. The latter number does not include the collections of the Caption Marshall Field Brazilian Expedition of 1926, which have not yet Less of a large

" The larger of faced management of the process of recovering of LES based from the control of the D Market of Kingdon Divines such at the part of the first transfer Palgraf to Unique Ergon 10 holds from an fine and rules and the second se Harper, will serve Dr. Modest makes. The Marie in connection with this spletched gift, a card index of the fungi of K racks are a completed to 1900, which is not only hibbographical b.t. as a sadescription and often a photograph of each species. M. I. F. in the again contributed a large series of specimens. 746: will a great a carreled the lilitar's herburium and included also a to the first from other states. At present the Mussian is y to Mr. Benke for an active interest in the state flora had the belong his express it solvenship to be betterious. The with it the that set as proceed on grown marginaled. He property and a stamper ef et C.r. *** '. University, pertrata, Barry The addition to Maria e collection of let specific E. Short of the paragraph of the Line and S. C. Charge. Manage Industrial mens of plant and the plant an

J. R. Churchill of Dorchester, Massachusetts, kindly contributed 150 sheets, of northern New England species which are examples of all that an herbarium specimen should be. A gift of 127 Texas and Arizona specimens from the collector, Mr. G. Eifrig of River Forest, Illinois, also deserves special mention.

Further gifts during the year were 1 herbarium specimen, Mrs. R. Clarkson, Chicago; 4 herbarium specimens, Mr. C. Groneman, Elgin, Illinois; "silver leaves," Mr. J. A. Hynes, United States Appraisers' Office, Chicago; 1 specimen Psoralea glandulosa, Dr. G. Montero, Museo Nacional de Chile, Santiago; some specimens of Ephedra, Mr. L. W. Nuttall, Philipsburgh, Pennsylvania; reproduction of a mushroom, Mr. L. L. Pray, Chicago; 1 herbarium specimen, Dr. J. N. Rose, Washington, D. C.; 2 herbarium specimens, Professor R. Thaxter, Cambridge, Massachusetts; 4 herbarium specimens, Dr. Percy Wilson, New York Botanical Garden, New York City.

The cooperation of the Bureau of Plant Industry, United States Department of Agriculture has been of great importance in securing material for new exhibits of grains, and has resulted directly or indirectly in the following gifts: 23 varieties of corn grown by American Indian tribes, from O. H. Will & Company, Bismarck, North Dakota; 6 ears of Silver King corn from Mr. I. M. Holder, Laurens, Iowa; 6 ears of Hickory King corn from Mr. L. S. Mayer, State Experiment Station, Knoxville, Tennessee; 6 ears of Neal's Paymaster corn from W. H. Neal, Lebanon, Tennessee; 6 ears of Reid's Yellow Dent corn from Mr. R. Redfern, Yarmouth, Iowa; 7 ears of Oreole corn and 7 ears of Calhoun Red Cob corn from the State Agricultural Experiment Station, Baton Rouge, Louisiana; and 6 ears of White Kent corn from Mr. F. K. Crandall, State Agricultural Experiment Station, Kingston, Rhode Island.

A collection of heads of 37 varieties of wheat grown in the United States and corresponding packets of the grain have been received from the Bureau of Plant Industry. From the Bureau of Agricultural Economics have been obtained 11 trays illustrating the official grain standards of the United States. This constitutes a valuable acquisition. This exhibit, which has required a great deal of painstaking work to prepare, shows the criteria employed in grading grain (that is, the 5 classes and 17 subclasses, the factors of color and texture, the 7 damage types, the 10 types of foreign material); for oats, 10 types illustrating the color classification and grading factors. There are also included 9 classes of grain sorghums and the 3 classes and 7 grading factors for corn. Twenty heads and seed

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The Poster's Pour Mode Company, Mintenpelly, Mintenpelly, and the transfer of a vertical need of their multi-writer as the largest Pour to the world. It is of interest to that it shows the processes for a to the wheat grain is broken up in their many.

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Palm material has been increased by the following gifts: 11 species of palm fruits from Dr. B. E. Dahlgren, Acting Curator of Botany; 2 palm leaves from Garfield Park Conservatory, Chicago; 9 varieties of palm fruits and seeds from Professor S. J. Record, New Haven, Connecticut.

The accessions accredited to expeditions are as follows:

Dr. A. Weberbauer collected 546 specimens in southern Peru early in the year under the Captain Marshall Field Fund in continuation of the Peruvian botanical exploration work commenced in 1922. Further details regarding this and other accessions are given under the heading "Expeditions."

Dr. F. W. Pennell, Plant Curator, The Academy of Natural Sciences of Philadelphia, obtained 1,711 specimens under the Captain Marshall Field Fund, in Peru, Bolivia and Chile.

Mrs. Agnes Chase, Associate Agrostologist, United States Bureau of Plant Industry, Washington, D. C., collected 1,173 specimens of grasses of Brazil.

The Captain Marshall Field Brazilian Expedition contributed a large quantity of material not yet accessioned.

Mr. Weed, Assistant Curator of Fishes, secured 100 specimens of Greenland plants on the Rawson-MacMillan Subarctic Expedition.

It is possible to make special mention only of the larger or more important collections received in exchange during the year; for example, 500 rare or otherwise significant Newfoundland seatmens from Frére Marie Victorin, University of Montreal, Canada; 500 very valuable sheets from the Muséum d'Histoire Naturelle de Paris; 566 specimens, constituting an important addition to the representation of European plants, from the National Museum of Wales, Cardiff; 167 interesting specimens of various regions from the United States National Museum; 200 Idaho plants, most desirably augmenting the collection from that state, as yet very imperfectly represented, from Dr. C. Epling, University of California, Southern Branch; 100 excellent examples of middle European flora from the Hungarian National Museum, Budapest; 100 desirable specimens from the Imperial Forestry Institute, Oxford University, England.

As usual the yearly purchases were of collections either significant because of the rarity of the plants, or their inadequate representation in the herbarium. Particular mention may be made of 600 sheets collected by Mr. José Steinbach in Bolivia, continuing his work in that country; 200 sheets from Dr. Oscar Burchard, Tenerife,







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For example, these passes of the Mrs. No. 19 passes of the Section of the Section

The most important specimen approve to purchase and that of the most extreme are given by a province for a rest standard Arezona. This was found about a hundred feet distant from the 3,300 pound mass obtained by the Museum in 1924 and presents characteristics which indicate that it belonged to the same fall. These two masses constitute the entire amount of the fall so far known, and its large total amount (4,800 lbs.) makes it a notable acquisition. Another specimen purchased for the meteoric collection was one weighing $6\frac{1}{2}$ pounds, of the Queen's Mercy, Africa, fall, which took place April 30, 1925.

From expeditions some material has been received, although much that was collected during the year has not yet arrived. From the Third Asiatic Expedition, carried on in cooperation with the American Museum of Natural History, there was received a valuable collection of dinosaur eggs and fossil dinosaur and mammal skulls. Of these, six dinosaur eggs were in series in a matrix and one was of a larger species. There were also received from this Expedition a skull and a partial skeleton in matrix of the dinosaur Protoceratops. These remains were found in the vicinity of the dinosaur eggs. A fine skull and jaws of the large Asiatic titanothere, Dolichorhinus, were also received from this Expedition. This species was much larger than the related American forms and certain features indicate that the Asiatic species was intermediate in character between those of the American Eocene and the more advanced ones of Oligocene are.

From the collections made by Assistant Curator Roy in eastern New York, 461 specimens were received. Of these 41 were invertebrate fossils of the Cambrian period, 321 were graptolites and other fossil invertebrates of Ordovician age, and 57 were fossil plants and remains of trees of Devonian origin. Among the latter were natural casts of two stumps of trunks 14 and 18 inches in diameter and many impressions of branches and rootlets of these and other trees.

From the Captain Marshall Field Brazilian Expedition, 106 specimens of gold, aluminum and manganese ores and specimens illustrating tropical weathering, all collected by Associate Curator Nichols, were received and, in addition, 136 specimens of agate, amethyst, the so-called water geodes, and varieties of granite from Uruguav.

From the Rawson-MacMillan Subarctic Expedition 579 specimens of Labrador and Greenland rocks were received. These included about 20 large specimens illustrating geological phenomena.

ZOOLOGY.—The zoological acquisitions were both valuable and quite numerous, the number of specimens accessioned being 14,697. This number includes 2,542 mammals, 8,824 bards, 1,846 reptiles and amphibians, 3,475 fishes, 18 skeletons, 2,228 stace to and 764 other invertebraies. Nearly three-fourths, that is about 10,517, of the specified as to the first transfer of the specified as the first transfer of the specified as the first transfer of the specified as the specif

Of the fire around a few lived by gift, the front in the other sector the fill war girls Cart Land C.C. and Wood See the last common presents to the W. J. Dec. 1985. a Perturning from Sunadral to Live 1 - Mr. Herbert in Lo. Mr. D. D. Stire president for all reformer are restricted to the land And the last of the last of the last of the processes of the first efforted as force. With the engine of three speciments of the at particular the particular for the later South American't Africa Transfer outside espect 21. must make were a controlled after factors of part of a south Asia Especial resources and a security of at the release to the a other liver, representations as Sternit Relief to Swamp lear Are Deer at Highway L. Sart of Deer 1, Inc. of Baltan 4 The Star Way 1 4 Letter Star L 1910. After per l'il Grande Gardie L'il air Gardie l'il Print et l' Rea, II. Mar a P. a Sies, S. Trian shan Steep, J. Blance, F. Blue thosp of the gram or Indian Electrical At World Read, I. In Bear, P. Dring Dr. . - res . Bergul Let 4 Depart 1 A . Breat Pear, P. and a Horst Gast Front Fear, A large exactly built of 1200 pures in agreement of a significant 192 of the Court Marchael Field Excellence Court Affi particularly in the protein it may and protein Laureau Thomas for the office of the state of ene of the gratus that are now printed by the Discours ment and a second control of many and the control of the control o Okap are process a large and popular control of conto the sure of a part of the entire of the electric of the sure. Control As it laposites with the length of the with the Arms of Massacroft Lateral Hersel for House received of the state of the st were contact the same and the s ably has a grama Managershort of a constraint and Many to the property of the second of the second of Will Am I, theep, 4, then 4, Musty to the P. Long to ed After per lighted strategy of A to the 11. In the twenty and

of specimens so far received from the Conover-Everard African Expedition were 82 mammals obtained in Tanganvika Territory. Among the desirable species contained in this collection are two specimens and an embryo of Abbott's Duiker, a diminutive antelope twenty-eight inches in height that is new to the collection. By means of the Captain Marshall Field Brazilian Expedition 362 mammals were received. This acquisition includes a good series of small rodents from the state of Rio de Janeiro and from Missiones; two species of the rare Mouse Opossums; a number of topotypes of Darwin's Uruguayan mammals; a Capybara, Marsh Deer and a fine Jaguar, collected by Mrs. Marshall Field; and an adult and a half grown Giant Anteater which will form a basis for a group of these odd animals. In Labrador and Greenland, the Rawson-MacMillan Subarctic Expedition obtained 52 mammals, among which were a number of small rodents, a Blue Fox and the skin and skeleton of a Walrus. On the coast of Washington, another Captain Marshall Field Expedition secured 5 Hair Seals and 11 Sea Lions, and in the Kaibab National Forest 7 specimens and accessories were obtained for a group of Mule Deer.

In the division of birds 8 specimens were received by exchange. 152 by gift, 1,941 by purchase, and 1,723 were obtained by expeditions. The most noteworthy species acquired by gift were: 4 Ducks from Illinois and Louisiana, from Mr. James M. MacKay; 14 American birds, from an anonymous donor; 2 Gray Partridges and 6 Red Grouse from England, which were collected and presented by Mr. W. J. Clegg; and a welcome donation of 83 birds of Labrador and Greenland from Mr. Rowe B. Metcalf. A cravon portrait of the noted ornithologist, Robert Ridgway, was an appropriate gift from the Ridgway Ornithological Club, Highland Park, Illinois. The acquisitions by purchase were exceptionally large and important. A collection of 1.482 birds from Argentina, a country from which the Museum formerly had only a limited number of species, was especially valuable, as was the purchase of 326 birds from Maranhão and Goyas, Brazil. Another purchase of 88 birds from Europe and Asia Minor was made in order to fill certain gaps in the collection. The ornithological results of the James Simpson-Roosevelt Asiatic Expedition were most gratifying, inasmuch as many rare specimens and numerous species new to the collection were among the 552 birds obtained in the little known countries of Kashmir and Turkestan. The 528 birds obtained in a surprisingly short time by the Captain Marshall Field Expedition to southern Brazil likewise conJan Ivil

tailed a number of extremel, rare and describle species. A cost curied of the work of part of the same expedition resulted in the acquisition of 120 Look from Massaches, Argentina. In adoption of the second from the Consider Evenard African Expect of specimens reserved from the Consider Evenard African Expect of the Mineson obtained 2022 burds from Linguistical Versions. In Labrador and Greenland, the Rassach Miss Millan Sabbara to Expectation secured 15 a perimens of birds. A number of those has were preserved in such a manner that they can readily be the result for the exhibit of North American birds that is pass being reserve.

A most a tea stilly depend to the Massure of salar base mantion was practe in the Boyest of the Director for 19th was the Judge R. Mag and Larries a contain of their eye. This contains was began in the as a continuation of a condition's among all on Since that there as a feasit of more than forty years' arrive and dilgent effort, it has grown to be the largest and most important private et et a el esse el l'estit American I ris in ex teu e Containing as it also as Inflays into a constitute over 400 completed series as a rear's erretter partial series at represents an expenditure of these than \$10000 an moment at flague that and of time and effort. Many of the sense are very full and complete. all many every variation of the ears of the species. There are make full series if eggs of this saw whelly another table, such as for Passer for Pige 1, William of Crare at 1 Transpoter Swat tope new either eithert or actionly so as to make the senging of their ears in seties in positive. On or series on this freak eggs, in one and shape ruse etc. It's a si of a Metine in the result of per cold eventing as that you we say that ye with the leading the and fail at 1 partiases of from a few at a fire town one or forther althoughes sine of the feet an early of free to desponsible to the first bulb as these of Gorge Salta of Marta Germa, Pros W. Joseph Jr of St. Los March W. Lee Charles of Post Red. Carrier at J. W. Press of Laws. Henry W. Learn of the Speport, Compared to the contribution of No. 2011. Proceedings P. R. Peakery of F. of Rap is Kerter in an interest lips of left in a new pared where it will be a result of the a sentiate, and is in tertheir nebite ruperus eset Mr. Librer a leas sestimue his between terest had will half to it from those to the in appeartunity flers "Systems History, aspect out in fittle American Museus, of Natural History, New York Saiss that I'v adjusting the very metable enlighters the field Missian advances to the first rank in this particular field

Except one lot of 38 specimens, all of the 256 reptiles and amphibians received by gift were examples of species of the United States. The largest acquisitions made in this manner are as follows: 79 specimens from Florida, donated by Dr. T. Van Hyning, Director of the Florida State Museum in Gainesville, Florida: 63 Wisconsin specimens from Mr. F. J. W. Schmidt; 19 from Louisiana from Mr. L. S. Frierson, Jr.: 15 from Indiana, collected and presented by Mr. O. Parks; a donation of 11 California specimens from Mr. A. G. Wells: and 38 from China, donated by Professor C. Ping in the University of Amov. To render the Museum's series of North American reptiles and amphibians more complete, 233 specimens from Arkansas and Florida were purchased. By purchase, there was also acquired for the exhibit of snakes, a remarkably life-like reproduction of the Redbanded Garter Snake. By means of the several expeditions 1,348 reptiles and amphibians were obtained. Of this number 992 were collected by the Museum's expedition in Central Africa. A collection rich in species and comprising 282 specimens, among which is a series of the Paraguavan Crocodile, was made by the Captain Marshall Field Expedition in southern Brazil; and 70 desirable specimens were brought back from India and Eastern Turkestan by the James Simpson-Roosevelt Expedition.

The accessions in the division of fishes were eight in number and totaled 3.475 specimens, of which 22 were received by gift, 393 by exchange, and 3,060 by expeditions. The specimens acquired by gift were 3 game fish, namely, an Amberiack, a King Mackerel and a Barracuda, from Mr. A. T. Millet; and a fine series of aquarium fishes bred and donated by Mr. William W. Foust in Barnegat, New Jersey. By an exchange for about 100 duplicate mounted fishes, the Museum received 393 authoratively named specimens from southern South America. This acquisition will facilitate the naming of those specimens obtained by the Museum's expedition in southern Brazil. Among the 2,137 fishes collected by the Captain Marshall Field Brazilian Expedition were a number of desirable species. The most noteworthy specimens are a series of the South American Lungfish, which has long been a desideratum for the division; a wide variety of the intensely interesting armored and climbing catfishes; and a series of one of the fresh water rays of the Parana-Paraguay basin. The number of specimens received from the Rawson-MacMillan Subarctic Expedition totaled 642 specimens. These include a series of trout from Labrador and Greenland, a series of Sticklebacks from the lakes, streams and tidepools, and a number of fish skeletons from the same of the sa

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permits. The party left for Nazca on July 20 with a Ford and truck. accompanied by three of the old workmen. The distance is 530 kilometers, which, on account of the nature of the road, is much more than that in miles. Dr. Tello's diggings at Paracas, where he recently discovered a new culture related to that of Nazca, were visited. Then the party crossed inland over the sand desert to Ica and Huavuri, and in the latter valley worked two days at an ancient town of mining-camp type. A stratification trench was cut through a refuse pile two and a half meters deep, an unusual depth in Peru. The remains proved to be uniformly "Late Ica," showing the camp to have been founded and abandoned shortly before the arrival of the Incas on the coast. The main undertaking of the expedition was a thorough archaeological survey of Nazca Valley, an area on the southern coast of Peru. The work here, including the journey, occupied the period from July 20 to October 15. A camp was established in a desert canyon, out of reach of malarial mosquitos. and about three miles from town. Excavations began July 31 at Ocongalla, in the open pampa or desert above the cultivated lands of the valley. The material proved to be very ancient, the bones being more decayed than any previously excavated in Peru, and cloth preserved only in traces. The expedition discovered, excavated, and carefully observed altogether one hundred and twenty graves which, plus material otherwise obtained, vielded an aggregate of a thousand objects. These objects proved to belong to seven distinguishable styles of pottery art. The textiles, structures, and other objects accompanying the pottery classify correspondingly. These seven styles are no local variants, but in the main represent successive periods of Nazca culture. All of them are prehistoric, and in fact, the last of the seven is that of the Incas, whom the Spaniards found in control when they discovered the country. The order of succession of the seven periods gradually became clear from indirect evidence, which is too intricate to review here, but which leaves no reasonable doubt. While a great many specimens of the fine Nazca pottery and textiles have been collected in Peru, and some of these have found their way into museums in different parts of the world, the objects of these separate styles or periods have never been distinguished, with the result that these collections could not be interpreted. The observations made by the expedition in the field made possible a definitive classification which will apply not only to the collection formed by Field Museum, but to all others. In other words, so far as the Nazca culture-one of the most important cultures of prehistoric Peru-is concerned, the Field Museum





callect a will be the standard or key collection for all others. The we'll of the especition was greatly stimulated and materially he ped in such a second of the latest of Dr. J. C. Tello as representative of the Peravian Government, who poor his labors to the work of the expedition with the conjugative spirit of a true scientist. Oning to scrupulous meastering on sleeping By the transplant and or having when there's a very large and ness among a ferce ranging from an to sufeen persons, although me at a was ramport in the district and dysentery prevalent. The last part of October was utilized in parlang and shipping the Nama collection. The month of November was devoted to a survey of the coast of morthern Peru, from Trapillo northward. As seen as the valley of Trajilla was left behind, the country was found to be virgin There has been j'enty of looting by pottery hunters an I collectors but recent for present is practically absent. Cities and clusters of thran and other religious structures were found in abundance. It is a should serve as a basis for future work in this area, which will recover the transfer of the Company of t two burgest and form the war altimed to the first testings to a series from a matter green well long that as I super to The analysis of an I paid Wanter and Dr. Line ber has an elegation a grower about the abmonthmental expense. of the property altimes of Possius times prior to the In a lit is now penaltista cut tre a fitting of Peru for a thousand years and more before the discourt of America, and results like these make the two Museum expects, as to Peru star I out as distinct contributions to the advancement of a consecution

Excellent progress may be reported from the Captain Mandaud Frield Experit, as to Machagianar under the leadership of Dr. Ralph Linton, Associated Caraton of Geometric and Mahacon citizabety. Dr. Linton miled on Describer 16, 1925, from Marcon at Madagianar and arrived at Tamatone January 17, 1926, the west to Tamatoneve, capital of the minute January 17, 1926, the west to Tamatoneve, capital of the minute days have by the first train. Remarking there until April T timough the worst of the many makes, he proceeded south by moter base to Astornals in the heart of the Retelies country. Be left Astornals April 17, per further south to Ambonitar, where he remained until April 24. This region offered good opportunities for only time I at the way for soil to leave it in order to yout the most of the larged Action The comparatively short dry season, while were at fair he way for the carbon carbon capital on Anthonian to Antarrabe, even during the runs.

he remained there until April 30 in order to benefit from the great weekly fair. From Antsirabe he returned to Tananarive, remaining there until May 18. On that date he went by train to Andreba, at the lower end of Lake Alaotra, and the next day by riksha to Imerimandroso at the northern end of the lake. This place he chose as his headquarters, making short trips until June 10, when he returned to Andreba. He then traveled by train to Ambatondrazaka on the northeast coast, where an annual fair was being held. On June 13 he returned to Tamatave, and waited until July 10 for the east coast steamer "Imerina," which was one month and five days behind the scheduled date for its departure. Leaving Tamatave on July 10, he arrived at Maroantsetra in the Antongil Bav two days later, remaining there until July 21. During this time he completed his Betsimisaraka collections, which had been begun at Tamatave, and engaged bearers for the overland trip west. On July 26 he arrived at Mandritsara in the interior, having finished the first half of his journey across the island. The culture of the Tsimahety, the tribe about this locality, proved to be nearly the same as that of the Sianaka, among whom he had worked at Lake Alaotra, and therefore he curtailed his stay there, leaving on August 5. He arrived at Antsohihy, on the west coast on August 9. From there he took a cattle steamer to Majunga on August 13, arriving at the latter place two days later. In September he left Majunga for Maravoay up the Betsiboka River and Kandreo,

Of the numerous tribes inhabiting the island, the Hova in and about the capital, the Betsileo in the central south, the Sianaka on Lake Alaotra, the Betsimisaraka on the east coast, the Tsimahety and Coast Sakalava of the north were thoroughly studied. Some very valuable information was obtained from old men in the various villages of the Tsimahety in regard to their tribal origin, that dealing with the Vazimba or first inhabitants being the most important. According to them, the Vazimba were the direct ancestors of most of their tribe. They lived in caves or dugouts in the clay hills, cultivated rice and fought with the blow-gun and axe. This would indicate that their culture was of Malayan rather than African origin. Later people from across the western water, that is Africa, intruded and conquered them, introducing the bow and arrow and probably cattle. An excellent description of the old bow and arrow was

wending his way into the wild Sakalava country. Later he plans to strike south, doing the southeast coast and reaching the west coast

overland.

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estanted the automorphism of the let neuron and Managar at the Cong. of information was an authorough a second as the second edurat cata, to an excess to a set of a set of a set denied true at the weeding, at the control of the c from the other Manager Lands on the Con-General and Daniel Control of the American Control of with sylety and the be becarbled the let all expected if the legislation for was laid up with a sharp attack of fever, and the paser wretch was killed by the other natives, as they were afraid of trouble with the French Conveyance, Street personal contract of the contract of centiffe users from a configuration of the configur to be used with tracers place. The last set present the reported for Madagnostar, for are At Majunga, which is quite a large civilized town, with an influx of Arab, Hindu, and Europe programme and a second second reach, Dr. Levinten best to the common district in American epidemic of pages had purely of all business and reads natives were the distance of the control Under the control of the obtained the attention of all there are a first to the end of jewelry and an re-a proper rays made to M tannerich a Sakalava for the rows are well at a little times they are not sell to Christians and which must of the wholes there have here? even say. Dr. Lister estimates that this jewers, is particle the post positivities of a character the expedition. The Savalava are a continue and are a tree beginning of the world was their practice to the policies for notes that amend of the first in wrought but the end exert she the drop in the class fitter francible line had not been buying the up for the more of the metal. and in last for maps of years it will be fear a unity no ten and of the playure that not seek all many processing were the author pode have the register they be assured two to a constituting of les sim entre la compare la contitue de la contitue ed yeld and a very purchases of some leadings of the latest leading beautiful a series, up her real hand, but a limb out her of series Live, share, travelets and analog of our by our thickness of use. The full real mass make very artist operated potters in good collectotal at his action to be a still the Metical of a lesto see as far as they have twen took only the Museum and consister the teaming "A mental like Lot in processing the new informetion gathered by him points to some rather startling conclusions, and evidence is piling up that the Malay element was the first to occupy the island, although it has been universally believed that the aborigines were Negroes.

The Field Museum-Oxford University Joint Expedition has now been in its fourth consecutive year at the vast ruins of ancient Kish, first capital of the earliest known civilization of Western Asia. After completing the great palace of the plano-convex bricks in 1925, the more serious task of excavating the enormous group of mounds in central Kish was commenced. Two stage towers of the early Sumerian period and at least three temples lie beneath the great range of hills now known to the Arabs as Ingharra, and under the name Harsagkalama to the ancient Babylonians. Operations at the larger of these towers or ziggurats were started with a force of a hundred and fifty men early in the season. The temples lie west and north of this tower. One of them was partially refaced in the age of Sargon (2750 B.C.) with better brickwork than the virginal, sun-dried brick of the Sumerian structure. Nothing seems to have been done to preserve this vast pile of solid brickwork, whose proportions have been found to be larger than any other similar structure in Babylonia excepting the "Tower of Babylon." Its enormous dimensions can only be estimated, but the length of the lower buttressed wall must approach 280 feet. Interesting burials were found near this wall: from one of them were recovered a fine stone mortar and pestle, a stone bowl containing perfectly preserved skeletons of two small fishes, and other objects. In the debris near the wall was found an elegant, tall censer stand made of baked clay, 27 inches high, decoorated with incised triangles. It has been restored from innumerable fragments by Mr. Ernest Mackay. Another building which was brought to light this year is a temple of Nebuchadnezzar, with walls standing 18 feet high. It is one of the best preserved in Mesopotamia. There is another large building of the period of Hammurabi (2100 B.C.) beneath it, and there are possibly earlier buildings at a still lower level. In the debris of the massive temple mound northwest of the stage tower was discovered a sculptured torso with feet and pedestal broken away and the head unfortunately lost. The statue is draped with a long embroidered mantle hung from the left shoulder and looped over the left arm, as it appears on the classical Sumerian statues of Gudea at Lagash. The right hand is folded over the left wrist-a pose unlike that of the previously known Sumerian custom of clasping the right hand with the left. On the

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right shoulder is engineed an inscription in seven lines, the signs being made in strictly linear script which points to the pro-Satisfance period and to the age of tre last kingsion, of Kish in win h Ur-libular about 250 Bit, was the most famous ruler, while the style of the outline indicates a later period. At Jemilet Nast, 16 miles mothered of Rich, one of the earliest latinust rates of Samernan cool nation was done covered. It was completely abstituted after a good with rest, or before 2000 B.C., and was hever re-ordered. Here tests, as listabled through five millerrounns, the elegant monochrones and providence nare of the early Sameran people. This technique of parallel pottoy was completely but in the advanced stages of Samon-Pubylonian culture. The permethed at dantheate do are are as any hald upon a builtyellow have, with a deep lustrous black and trient red paint. Many pieces are decented with a lorence design in black and red, common on pottery found at Sum. It is difficult to underst of why the Samerans, and the Bullyla thans who surveyled them, other last erul and and and this jurful art. Professor Language a neludes from these discoveries that the Samonan occupation of central Mosapelanta and hard the second control from borne board or the wells and that the flamence replace because you have the said on satisfied William In the Child Carryon Fuel. can full the street many of the grant of the street of the reserving to the interrupt of the interrupt of the first of the interrupt for eating the pollute person of the file are before the year 100. by Andrew pertant of the the third date about the old a seabove reduced, leg to the search of and with the table of Manual there has a the very paint of a light of the graved with a redesigns of the art for period. The supports of the sections and store our arm than wide and have a eigenvelocation in the deagns. Seven of the potential tablets that express to if add out seals list districts out out society discuss into every term etc.) The establishment of the pour fat Jen at the recent that the least edite a boose per all about form or the first arms of the second second exceed there prived to be built or of the figure or a grade expending and them the points better an extra color Para may Lat of a well in a ferrestangular firm as a firming in a country tage (minthe later remarging trace, as it is a relatively an existing It all the property that the latter is a second or stope must have been strong ed to a raise of a siets and must have enture a superselect the earlier form in a others and southers to freely, as there is to expense that his best faces were ever in the at the same time. The seasons are risk as it we fat the end of March.

BOTANY.—The Captain Marshall Field Botanical Exploration in Peru, begun in 1922, was continued during January, February and March of the year under review, in the Departments of Ayacucho and Huancavelica by Dr. A. Weberbauer. The season proved very unfavorable, however, for collecting, as the rainy period lasted longer than usual and trails were so badly washed out that in most cases they were impassable. Under these circumstances the collector had to confine his work largely to the more desert areas, where, even in favorable years, the vegetation is very sparse. Nevertheless he secured 135 numbers, mostly in duplicates of four each, some of which, when studied, will probably prove to be new to science. Many others represent species, either imperfectly known or collected but once before and hitherto unrepresented in any herbarium in this country.

The trip of Dr. F. W. Pennell, Plant Curator of The Academy of Natural Sciences of Philadelphia, to Chile, Peru and Bolivia, sponsored by the Academy, the New York Botanical Garden, Gray Herbarium and Field Museum, added 1,711 specimens to the herbarium. The majority of these are from Peru and constitute an invaluable addition to the Museum's collection of Peruvian plants, now the largest and most important in the United States.

The Botanical Expedition of Mrs. Agnes Chase, Associate Agrostologist. United States Bureau of Plant Industry, to Brazil, aided by the Captain Marshall Field Fund, conducted expressly for the fieldstudy and collection of tropical grasses, yielded 1,173 specimens of this difficult group of plants, upon which Mrs. Chase is an authority.

An interesting collection of 100 well-prepared specimens of Greenland plants was made by Mr. A. C. Weed, Assistant Curator of Fishes, on the Rawson-MacMillan Subarctic Expedition.

The participation of the Department in the Captain Marshall Field Brazilian Expedition of 1926 resulted in a large quantity of botanical material being secured. Since the Department is not prepared to enter upon a course of general collecting in Brazil, the Acting Curator, Dr. B. E. Dahlgren, and the two assistants who accompanied the expedition, viz. Messrs. J. R. Millar and George Petersen, directed their efforts to certain specific ends, that is, to increasing the palm collection, the economic collections, and exhibits of the Department by specimens and photographs. They also particularly aimed at obtaining material and studies of plants to be reproduced for the Hall of Plant Life in the Museum. The famous Botanical Garden of

But the Lane to go the tag tart as after the fore-set ample graterial five services Make a since the term. I be adoquaterain on the property of the contract of t termounts appeared that I have the conjunt product as the rest of the action of the second and the est a parts that if the control of the efficiency Less grown of the trail between East, of the appeller of the Cartes and a first we start the financial to a contract the contract of the specimens of the partial for importitle Aleja blance or server and forms become in general If the property of the Month of the effect of full pives. there was the following the control of many medical and the A Car Car - The Cards of Lange Wally Continue as pure user of front of the free from Fallow March of European of the first tell as a fear of these are several first or any laas the current tree from a later, we about in its fresh state full. We produce any memory may be feet to length, or new in the Markette With the the care of hard once ally fruits it was furand as unusual serve all easiers. The perfect propuration of the and the indice one percent the enterruntion of a dryotal each with think was mustained through at the stay. The over, was to the family level in part with the and advector paper and he dish by the of a matines three herosche vapor stoves. Atturnit plate In feet to fire stone served to distribute the heat, and a wire a feet plu ed a first always the hist plate divides the deposit once partner ture is from the war to of heat below, also establish presect of amounts delta or does specimens from a contractivity t with the build like

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The Museum wishes to record its indebtedness to Dr. Pacheco Leão, the Director of the Jardim Botanico of Rio de Janeiro, and his staff for innumerable courtesies and assistance provided, and also to his Excellence, Dr. du Pin e Almeida, Minister of Agriculture. Through the courtesy and interest of the latter, the Museum secured a series of scientific publications of the various bureaus and institutions of the Brazilian Ministerio d'Agricultura, Industria e Commercio.

Geology.—Four expeditions made collections for the Department of Geology. Of these, two worked in South America, one covered some Arctic localities, and the fourth operated in the eastern part of the United States. The work in South America, performed by two Captain Marshall Field Expeditions, was conducted by Associate Curator Nichols and Associate Curator of Paleontology Riggs.

Associate Curator Nichols left Chicago early in June with the Captain Marshall Field Brazilian Expedition. After reaching Rio de Janeiro, he separated from the main body of the expedition. He then engaged in collecting geological material in Brazil, Uruguay, Chile and Bolivia until his return to the Museum the last week in December. Several hundred specimens, covering many mineral resources of South America were collected, as well as many choice minerals. In addition, 660 negatives were made, twenty-three of which introduce a new feature in depicting natural colors. In Brazil, advantage was taken of favorable conditions to make studies of the origin of laterite and of the formation of aluminum and iron ores. Observations on the geological effect of the rising of ground waters in the semi-arid regions of Brazil and in the extremely arid Atacama Desert were made, and the conclusions promise to be of scientific value.

Visits were made to some of the principal gold, manganese and iron ore districts of Minas Geraes, Brazil. The chief studies and collections were made in the gold and manganese mines. Large deposits of aluminum ores were found under conditions exceptionally favorable for the study of the origin of such ores and of the nature and origin of laterite. Certain kinds of iron ore were also studied under unusually favorable conditions. Much light was thrown on some other geological phenomena of obscure nature. The next objective was the agate fields of Uruguay, which, although they supply most of the agate for the world's markets, seem to be little known. Several days were spent at Montevideo collecting



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where the iren mountain of Tolo, Chile, was reached. After a few days on the state of the state

minerals. Potrerillos is well within the Atacama desert and from here until Bolivia was reached, full advantage was taken of the opportunity to study desert conditions and to secure specimens illustrating them. From Potrerillos to Chuquicamata the journey was by railroad. At Chuquicamata, where the largest known deposit of copper ore in the world is located, ample collections were made of the brightly colored, unique ores of the mine and a number of the rare minerals associated with them. Trips were made from here into the desert which, at this place, is unusually dry. Specimens collected included excellent examples of desert varnish, sand-blasted pebbles, salt incrustations and other desert features obtainable in equal perfection in but few places.

An expedition to the vicinity of the Indian village of Chiu-Chiu permitted studies to be made of the ruins of two pre-conquest Inca villages, and collections were made at an Inca pre-Spanish burial place. Also, photographs were taken of a series of pictographs on the walls of a canyon near the Indian village of Quebrada. At Chuquicamata a valuable series of Inca material from the burial place at Chiu-Chiu was received by gift from Mr. Herman Eggers.

On a side trip to the seashore at Tocopilla, some copper ores and other specimens were secured, as well as a few archaeological specimens from a large kitchen-midden. The nitrate establishments of the Atacama desert are nearly all shut down, but a visit was paid to the new Guggenheim nitrate plant at Coya Norte, which was preparing to produce nitrates and iodine by a new process on a very large scale. The specimens secured here were hermetically sealed in tin and it is hoped that they will be thus sufficiently protected from dampness to arrive in good condition. A few plates for color photography were secured, and as many color photographs as the number of plates obtainable permitted were taken here and later in Bolivia. It is expected that these will serve as guides to the colorist in prenaring lantern slides of desert scenery.

This completed the work in Chile, and on November 4 Mr. Nichols, accompanied by Mr. Eggers as interpreter and guide, left by rail for Oruro, Bolivia, via Antofagasta. On the way, sulphur was collected at a number of places where it was being mined from volcanos, some of which are not entirely extinct. Borax from the borax lake at Cebollar and fossils from Patacamaya were also collected. At Oruro the two largest silver-tin mines of the district were visited. The expedition then left for the Caracolles tin mines on the east slope of the Andes, travelling by rail and automobile. In Cara-

calles tin uses and inmerals were collected and some very fine casatencie crystals from Atosha, which and not varied, were obtained.

In company with the manager of Caracolles, the ancient silver extra city of Foton was visited. Here it was learned that this, the largest depast of silver one ever found, is almost exhausted as far as a, set is concerned, although it now yields important quantities of the

The American tin design and mill at Arcsilla, working on stream to was variety and collections made there. The expectation then terms of to Caracolles and was seen again in Orano, where collected a stream of the collected at th

The early of the Cupt of Moson (1) is Pulser to as (1) specified to a to Agree the Annual Coddiers from the 1919-1919 was for a during the year. There is April Associate construction in part of the Robert College and the Millianum stuff to the off the fields. After plus our than beseined current policitis, with the Store efficients from American participation and the first for a first feet the Program of Curtor Anal. The first of the share home in the wast by of our December that will faul as from the Mission of Santa from the tre Proceeds acre from A variety of the solumenters of the project of are also families on a grant of sides large to the unit their tanks above four four fluid at each a fine specification is a section. Have been a destituted the account to the conand ware it in first the just proved works at it the consoler. the Root of Querran Here was a sucre, a care of care of Pratice of realized statistics to the district feet or found the first of the process from the factorization to the same of the same of the first than the was established to be betan a and come this in a stellar field sufficient first for which to take the first for the first sold the facts season put as on the treatment of the control of entroping entroping early tracking to first and the contractions of the contraction of th satisfied at the consequent to a second of the consequent affects from their gardens are were it and a finite and finite of the family rise had to be truther to each better the reproceeds contiers. Lighter for the contract of package one was suned by tand from drift on Appropriate of the time of specimens were secret. The color to was an extensity the fell

by a representative of the Argentine National Commission, and three specimens of fossil mammals were set aside for the Argentine Government. Altogether, there were collected in this region, 181 specimens of fossil mammals, 5 of fossil birds and 2 of fossil turtles. Among the fossil mammals there were secured a mountable skeleton of the large glyptodont, Doedicurus, a skull and half skeleton of Typotherium, and a skeleton of the ground sloth, Pronototherium. The latter was an animal about the size of a black bear. The acquisition of this specimen will give to the Museum the first mounted skeleton of this animal. Besides fossils, a number of recent mammals, reptiles and plants were collected by the party, and 300 negatives illustrating technical and popular phases of the work were made.

The collection was conveyed over mountain and desert trails to the nearest shipping point and thence to Buenos Aires where it will be ready for export as soon as released by the customs authorities. The expedition then transferred its work to the Pampean Formation on the southern coast of the Province of Buenos Aires.

From the Rawson-MacMillan Subarctic Expedition a large number of specimens of rocks and minerals of the regions visited and many geological photographs were obtained. Dr. James H. C. Martens, the geologist of the Expedition, was assigned to the auxilliary schooner Sachem. Wherever a landfall was made, he secured representative rocks and minerals. Some of the localities visited, especially in Labrador, have never been previously reported on by geologists, hence all the material obtained there was new to science. As far as possible, large specimens, suitable for Museum display were obtained. These chiefly illustrated rock structures and such geological phenomena as dikes, veins, folds and ripplemarks. Recording in detail the localities visited and specimens secured, the results were as follows:

At two localities in Maine sets of specimens representing the principal formations outcropping were collected. The most complete and interesting of these were from the vicinity of Bar Harbor.

In Nova Scotia, while little time was available for collecting, some good slabs of ripple-marked sandstone were obtained from Sydney, a specimen of conglomerate from near Baddeck, gypsum from the white cliffs at Big Harbor and glaciated pebbles from St. Peter.

Near Curling, in the Bay of Islands, Newfoundland, a little more than a day was spent and specimens were collected illustrating the development of rock cleavage and jointing, the formation of veins, Jan 1927.

and some showing the types of materials which have been mitted at the state, himestone and quartrite quarters of the region.

Many localities in Lubrador were visited between flattle Harbor on the south and Saglek Hay on the traith. With the exception of one loose and a and prayels on the surface, all of the roots exammed in this area were found to be very ancient and to contain no fossils.

From these localities were collected large speciments of second varieties of gnessa which show joining, foliation, banding and folding. Trap dales were found at nearly every harbor, and specimentate were seed to show columnar and irregular jointing and the increase in size of the mineral grains from the margin of the dike toward the center. Some of the dike specimens are of interest in 21 m/g the mineral state and better the second transfer.

Some mineral specimens were also collected in Labrador. These in a feet shad yet labradorite and hypersthene from the well as a large state of the series and actinolite from Hopsdale, and abbit and polarite are proposed in the series of the

Several is a time pure victor in Grandian distances Salauritappere and Godina to the force were found to resemble those of Laborator being to solve precises with trap draws. In South Stramfgard is beauty was consider which had being been known to the Estatures. It yielded speciments of the supplicate much has based by them for solveness at more a. Specimens of the unit asbestos were also obtained.

On Dasse Island specimens were collected from the Lertary velocity research to our there. Most of them, estand resolves in cavities. A factor of the stand was examined close at hard, and a personal collected from the strands are also be hard very resolving the resolution of the strands were broad of some placers as a place of the control of strands of strands and part of the model of the strands of the strands are as a strands of the str

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The total number of geological specimens obtained was 579, and the number of geological photographs made was 181. The photographs illustrate chiefly such features as forms of icebergs, glaciers, glaciated surfaces, wave-erosion, atmospheric weathering and bed rock geology.

Collecting of fossil plants and invertebrates was carried on by Assistant Curator Roy in the eastern part of the state of New York for two months during the summer. Especial attention was paid to the region about Gilboa, where, in connection with the construction of a large dam, unusual opportunities for procuring desirable specimens were afforded. The most important material obtained was the remains of the earliest known trees. These trees (Eospermatopteris) were related to seed-bearing ferns and grew to a large size. Stumps of trunks 14 to 18 inches in diameter were secured by Mr. Rov. as well as many specimens of rootlets, seeds, pinnules and branches. Specimens were also obtained of an early form related to the modern lepidodendrids or club mosses. These also grew at that time to the size of trees. The specimens secured included the remains of portions of trunks, seeds and branches. Mr. Hugh Nawn, the contractor operating at the locality, gave generous assistance toward securing desirable specimens. Neighboring localities, for example, Ryesdorf Hill, Troy, Kenwood, Glenmont, Clarkesville, Stuyvesant, Schodak Landing, Greenfield, Hoyt's Quarry, Middlegrove, Rock Fall City, Snake Hill and Granville yielded specimens of invertebrate fossils of earlier periods, in addition to other valuable material. At Granville, important specimens were obtained in the form of remains of the earliest known Discomedusans (Jelly-fishes). These specimens, which occur only in this locality, are regarded as the compressed bodies of lobed jelly-fishes, the lobes varying in number from 4 to 7. They occur in rocks of Middle Cambrian age and are thus among the earliest forms of life known. Four excellent specimens were obtained through the kind assistance of Mr. Gomer B. Williams. Other specimens of the Cambrian age procured included some of the large fossil sponge Cryptozoon, a number of trilobites and various brachiopods and mollusks. From the Ordovician shales at Glenmont, large numbers of well-preserved graptolites were collected. Other localities afforded Ordovician trilobites.

The Museum artist, Mr. C. A. Corwin, spent eight days at Meteor Crater, Arizona, making color and topographical studies of that peculiar area. As is well known, this is a crater-like depression in an Arizona plain, where several hundred meteorites, all belonging

to one fall, have been found. It is supposed that the cruter, a mile in diameter and 600 feet deep, was made by the impact of a very large meteorite belonging to this fall. So studies each 20 a 30 makes as as were made by Mr. Corwin, above a contracted positions of the cruter. It is intended to use those studies in an enlarged form to make a factories for a factories of the cruter for the factories of the cruter for the factories of the above factories of the f

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Daying Thompson the oran to posset Croud. But not the Paris I have been sent to be formed bearing

de Butantan, where the most comprehensive studies of snake venom and the treatment of snake bite are being made under the direction of Dr. Vital Brazil, the founder of the Institute. From São Paulo the party went to Bauru in the heart of the State of São Paulo and, after collecting birds for two days, they began their trip by rail to the Paraguay River. Thanks to the facilities provided by the railway, the "Noroeste de Brazil," in the form of a private car and attached baggage-car, it was possible to make short halts for collecting at various places en route. A very productive stop of two days was made at Piraputanga, Matto Grosso, where the railroad passes a range of hills and follows the Rio Aquidauna.

At Porto Esperanca on the Paraguay River, after a rail journey of 1,400 kilometers, the party took the river steamer for Corumbá, the important distributing center of this part of Brazil. Here a steam launch was engaged for the trip to Descalvados, the ranch and packing plant of the Brazil Land and Packing Company, where Mr. Cherrie had hunted with President Roosevelt in 1914. Mr. Jack Ramsey offered them the hospitality of the ranch and supplied oxcarts and horses for the hunting trip to the west, which consumed eight days. This trip was extremely interesting, passing through characteristic open grass-lands with islands of forest and marsh, where deer, jaguar and giant anteaters, as well as other game, were abundant. Near their second camp on this trip, Mrs. Field shot a fine jaguar. Two species of deer and two giant anteaters were also obtained in this region. Many interesting and desirable birds were in addition secured.

On August 11 they returned to Corumbá. The launch trip on the upper Paraguay was highly interesting. A number of capybara, a rodent about the size of a half grown pig, shot by Mrs. Field and Mr. Sanborn, and a fine series of the Paraguayan jacare, the local relative of the crocodile, were obtained. The bird life of the vast Paraguayan marsh was found to be remarkably rich and varied in number of individuals as well as species, and representative forms were collected along the route.

On returning to Corumbá, Mrs. Seton left the party to return to the United States via Chile and the west coast of South America in accordance with her original plan. The remaining members then spent ten days at Urucum, a locality south of Corumbá where a bold range of manganese-bearing mountains rises to 3,000 feet above the surrounding level plain. This place proved an especially good locality for bird collecting. In the shafts of the abandoned manganese





to the last and all the level 2,000 feet, Mr. Saids on secured a large series of hats

Mr. Cherrie, Mrs. Field at d Mr. Taylor left Commiss, August to return by mid to Sen Paulo and autherful the United States on Section 1. Means, Suthern Schmidt and atmassizatif, Mr. S. J. Garner, remained in Commiss to respect the backage and color at a fifterment's taking the river steamer to Asinchem, Planeting, August 2.

He is Fig. 1. We can be for a stopped with Mr. Schmidt visited Lemma Falls and Puerto Bertoni, rejoining the others at their camp at Caraguatay. The second week in Missian was set to be for a stopped were distinct to the second week in Missian was set to be set to b

Leaving Caragadas. Sectionless III. the parts are left at Fronties and Mr. Suthern proceeded freed to Manter her to assume the getter of the engineer with Mr. Schmidt because down by the fiver stemmer to Europe Area and their shapped to Monter lee. At Louise Area Mr. Schmidt bear here they were compact for test down to repeat to Monterches where they were compact for test down a respectively to entertiant for work in Urugua. As a continuation of the work of the expectation Mr. Such ru was authorized to make its entertialize of the expectation of the scribbing of the part of the scribbing of the part of the scribbing of the continuation of the expectation of the scribbing and contributions and over 100 these.

Mr. Schmitt art. Monter, ice. Out her 20, reducting to the United States via Chile and the west coast. In Santiago, Chile, he studied ages men in the law by Mr. When every facility was effected to by the Live by Te. Live by Mr. Carrier, and the coast of the special arts and the coast of the special arts and the coast of the coast of the special arts and the special arts are special arts are special arts and the special arts are s

The number of specimens obtained by the Captain Marshall Field Brazilian Expedition is 4,333. It includes: Mammals, 362; birds, 648; reptiles and amphibians, 282; fishes, 2,137; insects, 846; other invertebrates, 58.

A Museum expedition that assures the acquisition of many desirable mammals, birds and other vertebrates of eastern and central Africa, is the Conover-Everard African Expedition. This was financed and undertaken by Mr. H. B. Conover, an associate in the Museum's division of birds, and Mr. R. H. Everard of Detroit. They were accompanied by Mr. John T. Zimmer, assistant curator of birds, who has had much experience in collecting in the Philippine Islands, New Guinea and South America. The expedition sailed from New York early in April, going first to London for additional equipment and then, via Paris, to Marseilles, where they embarked for Dar-es-Salaam on the coast of Tanganyika Territory. Using Dar-es-Salaam as a shipping point, on June 4 they went up the coast by steamer to Tanga, from which port a railroad extends inland toward Mount Kilimanjaro. By means of the railroad up to Mombo and then by automobile, the party finally established a camp in the hills beyond Magamba at an elevation of 5,200 feet.

The animal life at Magamba was found to be quite different from that of the lowlands. In this region Abbott's Duiker, a pigmy antelope, was supposed to be at home and, as it is a rare animal not represented in the Museum, great effort was made to collect it. With the aid of a local chief, about a hundred natives were assembled and requested to make a number of cleared lines up the mountain side. In three days four or five "drives" were made, the members of the expedition being stationed along each of the clearings while the natives drove through the thick forest, blowing horns and making other noise. The first day's drive was unsuccessful, but on the second day Mr. Zimmer secured an adult doe, and on the third day Mr. Conover obtained a nearly grown male.

At Magamba the party stayed until June 29 and then made excursions and camps in various directions, finally reaching Mnazi, near the Kenya border at an altitude of 1,600 feet. Leaving Mnazi, July 18, they returned some distance for additional supplies and, chartering two motor lorries, they went southward across the country to the central railroad at Mrogoro. After waiting here several days for a train, they went back to Dar-es-Salaam to repack and ship their collection. The specimens, results of their first trip, in the

digment received by the Museum, consisted of his mammals, among which were four antelopes and one cheetah, and \$22 birds.

On their second trip into the interner, they went by real from Darter-Salaam to Kileman. In a region about a hundred males south of there, they collected and traveled for two months, moving from place to place about by he-yolon, camere and autor. At Matamaras, where they camped near a deserted village at the edge of a large open plain, game was abundant but limited in number of species. Here Mr. Zummer collected a female and three males of a handsome artering, locally called the "Padu." Returning to Kilessa, Ostober 22, they proceeded to pack their collections for shipment and make preparations for the next step of their journey. The second shipment of specimens, which has not yet been received, is reported to costs, a 117 mammals, 197 lards, and 140 reptiles and fishes.

According to plans, this expedition was to have Kilossa and go to kiguma, the western railroad terminal on Lake Tanganyika, take a steamer across the lake to Albertoville, and then travel by rail and beat to present a second generalized beat to present a second interaction of the Lordon the castern part of the Lordon the Lordon the After second a series of the vertebrates in the Lordon to the continue traction and add estimate traction and according to the latest and estimate traction and add estimate tractions of the second estimate tractions.

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The expectation washed from Was used, Master June 19, in Community Marketing and any schooled Towards a computed by Community Research to the Proceedings of the Community States of the least Along the count of Market stage used study at our competite the least being from Harrier. On June 25, they arrived at validay Neva Sendag from there aming to Curling near the field of Pay Island. New Younghated.

Battle Harter, their first part in Latrial r, was rea hed July 8, and there a delay of three days was caused by ore and weather conditions. While saying methward in the more open waters tour

the barren rocky coast, eleven stops of varying length were made in Labrador. On July 20, they arrived at Cape Mugford where, the conditions appearing favorable, they changed their course, passed through the ice pack off the coast of Labrador and in a few hours. were in the open waters and headed for Greenland.

The first landing place in Greenland was at a little bay south of Sukkertoppen. Sailing northward, they visited Sukkertoppen. Akpamiut. South Strömfiord and Simuitak. About noon of August 1 they arrived at Godhavn, Disko Island, the farthest point north reached by the expedition, and on the following day they began to sail homeward. On their return trip, along the west coast of Greenland, they stopped at Egedesminde, Holstenborg and Sukkertoppen. but at the last mentioned place only long enough to load oil before sailing for Baffin Land.

Reaching Baffin Land in a fog, they anchored in a little harbor behind Cape Haven and as soon as they were able to locate their position. August 15, they sailed for Labrador. A number of ports were again visited along the coast of Labrador as well as in Nova Scotia and Maine, and on September 1, twelve weeks after they started northward, the expedition returned to Wiscasset, Maine.

On this expedition collecting was done, whenever possible, in all of the harbors visited. In this work the members of the passenger crew gave much valuable and appreciated assistance. Those who were fond of shooting obtained a sufficient number of birds in many ports in Labrador and Greenland to keep Mr. Hine constantly busy skinning and making color sketches. Wherever trips ashore could be made, collecting was done in streams, ponds and tide pools. When in port, hand lines were nearly always used over the sides of the boat. In Labrador trout was found in all of the streams flowing into the sea. It was of much interest to discover fishes living in many landlocked ponds high up on the islands along the coast of Labrador. As some of these ponds apparently freeze solid in winter, the question arises as to how the small species of fish manage to survive.

The 1.811 zoological specimens obtained by this expedition include: mammals, 52; birds, 158; bird eggs, 28; fishes, 642; insects, 260; and invertebrates other than insects, 671. The acquisition of this collection is of particular value in that the Museum had previously very few specimens from Labrador and Greenland. As would be expected, a large proportion of the birds obtained are water birds, many of which are urgently needed for the proper re-installation of the exhibit of North American birds now under When the state of the state of

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The expect of the function of a widge the expected as maked disput to action extended by -1 and of the Council State who Company to members of the expedition, charged the first office of the purery

The expects on a set from New York for Lorino. September 1. In Paris they were period by Mr. Black and on September 1.8 they a harded at Marsa, of r. Puto its where they are test as days later. From Publicate, was too in French Some land, a three-days trip by rial tests the Advis Afraha, the out to of Advisions. Besty west supposed with off in letters of a trips to make the presentation of their recognition by the green most of a resolution of their recognition by the green most of a resolution of the area is not being the Rian Tafath. Prove Respect to being of the green is not trip to the presentation of the green to the recognition of the green to the recognition of the presentation of the state of the resolution of the presentation of the trip to the state of the theretoy greatly face taken.

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beautiful group of the Mountain Nyala—three males and two females—a number of smaller antelopes, and a general collection of about 500 mammals and birds. The Mountain Nyala, which was obtained so quickly after they reached their destination, is a large, handsome antelope. This animal is so rare and difficult to obtain that it is represented only in the British Museum. With such a successful beginning, large and valuable returns from the Abyssinian Expedition are assured.

An account of the movements and successful termination of the James Simpson-Roosevelt Asiatic Expedition was given in the Director's Report for 1925. Before returning to America however, Colonel Theodore Roosevelt and Mr. Kermit Roosevelt, accompanied by their wives, made several successful hunting trips in the central and upper provinces of India. On these trips they secured for the Museum more than thirty large mammals, including Swamp Deer, 5; Blackbuck, 4; Nilghai or Indian Blue Bull, 4; Hog Deer, 3; Spotted Deer, 2; Indian Boar, 2; Indian Gazelle, 2; Leopard, 1; Tiger, 4; Cheetah, 1; and Rhinoceros, 2.

The total number of specimens secured by the Asiatic expedition is 1,017. Of this number 230 are mammals; 654 birds and bird eggs; 70 reptiles and amphibians; and 63 insects. This important acquisition contains an excellent representation of the large mammals of Asia, and among the birds are many rare and desirable species. A report on the reptiles and amphibians of this expedition has been prepared by Assistant Curator Schmidt and issued in the Museum's Zoological Series, Publication 237. The birds and mammals will be reported on in a similar manner. Two of the most interesting mammals collected by the Roosevelts are, without question, the Marco Polo Sheep and the Ibex. A group of each of these animals is now being prepared for exhibition with accessories and a background showing the nature of their bleak natural home.

The zoological explorations of the Captain Marshall Field Central African Expedition were continued during a part of the year under the direction of Assistant Curator Heller and Dr. Hilda Hempl Heller. The latter returned to America via Nairobi and Mombasa in July, but Mr. Heller remained in the field several months longer, sailing from Dar-es-Salaam, on the coast of Tanganyika Territory, in the latter part of October. The specimens received represent the work of the expedition in 1925, and total 2,313 in number, of which 1,270 are mammals and mammal skulls; 8 birds; 992 reptiles and amphibians; 32 fishes; and 11 invertebrates. As mentioned under

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As experience of the approx of Contact Morehold is a constant in Merchant in the Source of Wartington in Architecture of Special and the Morehold Special and the Morehold Special and the Morehold Special in Architecture of the Mr. C. A. Committee stuff action with a facility facility and the stuff action with a facility facility and the stuff action with a facility facility.

At La Fus - State of Washington, Mr. Albright successful in getting a left the speciments at the response territor for two soul groups. In Part, we have the new of the Quantitate from its reated of a post of and furthest west in the United States "Your there on larger like to sever miles off the share, are found more was I remark a sure comment protection. This little shall covering at atea of or a about two some descriptions is the force of about 200 sea here and than taken was of as been as far back as the Is hare but percenter. The Steam was Law is the introductional wais mounting sometimes 11 feet in length unit weigh higher must as 2 100 peut le A family group of every specimens of these atomics was once test The Harter contact thousand desired, a four into the rests and bely entered to as a dig the empt at on this. A group of five of these at multiway likewise is bested. I majorn in it to be use these seals the Museum is modified to Dr. E. W. No. of it of of the

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elothed in an autumn garb of vivid colors. In such an environment thousands of Mule Deer live under government protection. While Mr. Albrecht collected and took care of the seven specimens required, Mr. Corwin made careful studies of the region so that when the animals are mounted they can be placed in a setting characteristic of their natural habitat. For permits and assistance rendered in various ways to Messrs. Albrecht and Corwin in Arizona and Utah, the Museum extends its thanks to the following gentlemen: Mr. D. E. Pettis, State Game Warden of Arizona and Acting District Forester of Ogden, Utah; Mr. A. E. Lewis, Deputy Game Warden; Mr. Carl Haycock, Forest Ranger; and Mr. William Angus of Los Angeles, California.

The following list indicates the various expeditions in the field during the year:

LOCALITY	COLLECTORS	Material
KISH, MESOPOTAMIA	Stephen Langdon Ernest Mackay	Archaeological Collections.
Peru	A. L. Kroeber W. E. Schenck J. C. Tello	Archaeological Collections.
MADAGASCAR	Ralph Linton	Ethnological Collections.
PERUVIAN ANDES	A. Weberbauer	Herbarium and Economic Specimens.
Rio de Janeiro, Brazil.	B. E. Dahlgren J. R. Millar George Peterson	Botanical Collections.
Argentina	Elmer S. Riggs Robert C. Thorne	Paleontological Collections.
STATE OF NEW YORK	Sharat K. Roy	Paleontological Collections.
BRAZIL, PERU, ARGENTINA CHILE, BOLIVIA, URUGUAY	•	Geological and Archaeolog- ical Collections.
KASHMIR, TURKESTAN, THIAN SHAN MOUNT-		rear Concessions
AINS, PAMIRS	Theodore Roosevelt, Jr. Kermit Roosevelt George K. Cherrie Suydam Cutting	Zoological Specimens.
Brazil, Argentina, Paraguay, Uruguay, Chile	George K. Cherrie Evelyn Marshall Field Grace Thompson Seton K. P. Schmidt C. C. Sanborn Curzon Taylor	Zoological Collections.



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The avenue has a	.M. B. Conover Robert T. Lverart John T. Elimmer	Zoological Specification				
CENTRE STORE	Edmur i Heller Halfa H. Heller	Mammala, reptiles.				
Was sur-	Clarence J. Albrecht	Securing material for scal				
S SEED I SAT L	Clatence J. Albrecht Charles A. Curwin	Securing aperimens and making studies and notes				

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INSTALLATION, RE-ARRANGEMENT AND PERMANENT IMPROVEMENT

Antimores (1817).—The activity of the Department of Anthrops age of a general soler fraction was largely centered on the installation of the praterial obtained by recent expeditions. Three mass has were on pictal at it, little of seventy seven exhibition cases installed, distributed as follows:

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with geometric designs scratched in the base by means of a comb, from the "A" Cemetery at Ingharra; a handled pottery jar with a woman's face and breast in high relief, and other pottery vases, all of the Sumerian period; a glazed pottery bowl and a bottle of the twelfth century B.C.; human and animal clay figurines; an alabaster vase; three restored ostrich egg-shell cups; a carved bone figure: bone picks: bronze implements divested of their malignant patina by means of the electro-chemical process referred to in last year's Report (p. 442); glass bottles and seals, clay seals, pendants of stone and mother-of pearl, cylinder seals; and necklaces of carnelian lanis lazuli, rock-crystal and shell. In Case 12 of Stanley Field Hall are shown thirty-one enlarged photographs illustrating the activity of the expedition during the season 1925-26. These photographs were taken on the spot by Assistant Curator Henry Field and Mr. Ernest Mackay. Each picture is provided with an explanatory caption. Two carved wooden figures and a guitar from Africa, presented by the Arts Club of Chicago, as well as a carved wooden figure presented by Mrs. John Alden Carpenter, were added to Case 11 as further examples of the artistic achievements of the Negro.

In commemoration and honor of the Eucharistic Congress which convened in Chicago from June 20 to June 23 several special exhibits were arranged. Two cases containing reproductions of antiquities. chiefly ecclesiastical, of ancient Ireland were temporarily placed in Stanley Field Hall and attracted many thousands of visitors. The painting of a Chinese Madonna with Child of the early seventeenth century, obtained by the Blackstone Expedition to China in 1908, formed the center of an exhibit illustrating the early history of Christianity in China. In the same case were also displayed a facsimile of the famous Nestorian inscription of A.D. 781, which records the introduction of Nestorian Christianity into China under the Tang dynasty in A.D. 635; a rubbing of the tomb inscription in Latin and Chinese of Matteo Ricci (1552-1610), the first Jesuit priest who came to China, and several portraits of him. The painting of the Madonna was widely discussed in the press and made the subject of an article by the Rev. Albert Muntsch, S.J., of St. Louis University. in The Fortnightly Review (October 1, 1926) with reference to Dr. Laufer's former researches into this subject.

The Potawatomi collection obtained last year by Mr. M. G. Chandler under the auspices of Mr. Julius and Mrs. Augusta N. Rosenwald has been installed in three standard cases A man's costume and three woman's dresses are displayed on manikins.

Att on telescope in the second of the contribution to the Ophone and Winnelson, and make an excellent contribution to the history of the Indicana formerly stabiliting the Classico region.

Hall 4 mercy street, and the last transfer to the second secon subsequents by their femous is the river below of the memory territory Misse the section of the countries of affiat the a great seed of motions processed to show an continue by aftime. The entire a seek according to each and attraction to a the same of the course with the latter of the course in about the burning of cultural or the prographic relationships of the tribes represented. The new process of the first being periodly completed under the the state of American I was a firm as a planted transfer for the U.S. and the state of the state Bertal Bases Sanders and along at secting first little processed office and the configuration of the formation of the configuration of the confi produced on the company for the company of the comp targets for the state of the start of the st light-of-red screens representing, from out to west, the Yuma, M. S. . Mono, Washo, Northern Painte, Maidu, Winton, and I Thus the exhibits start from the southeastern corner of the it is a first the Yun a first resemble the and potteryenergy to the north of he of the electric dio are rel the wandering per self to the Basin. The contumes, to , , weapons, hering equipper el e como pe. Especimento de disho exhibit a trace a core outfit is a factor and decorated with elaborate arrangers. This pape of prescent continuous Settledy shed to avoid the Settlering and this plant green, they are petions prevention in present. The Maria artists planning in Small the agentus his whole hallong their their free the presented acrons to t formed the stuple forst basketry and to be the finest in emiteure, as fire as a liquidation paraulz of native ble which are pictured in . . . I e chipping of

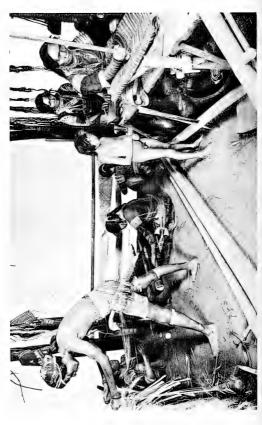
obsidian tools, the complete process of arrow-making, the preparation of native currency from clam-shells and magnesite, as well as the method of obtaining fire, are all demonstrated. Within the coming year it is planned to complete the arrangement of the remainder of the Californian Indian collections in the same manner, so that the visitor to the hall will be able to visualize, in their correct geographic sequence, the varied native cultures of the State. On the south side of the hall will be shown those California tribes that formed part of the Northwest Coast culture area-the Tolowa. Yurok, Karok and Hupa, characterized by their wood, shell and horn carvings, and by elaborate ceremonies in which a display of wealth played a large part. To objectify this latter phase of their life, a group of Yurok "white-deer skin" dancers in full ceremonial regalia has been planned. At the other end of the hall will be illustrated the utilitarian and ceremonial artifacts of the Miwok and Yokut tribes of south-central California. These groups are intermediate in culture between the northern and southern tribes in the State, and might well be called typical native Californians. The crude pottery made by the last group is particularly interesting, for it represents the northwestern limit of the potter's art among the American Indians.

Hall 7 containing the Stanley McCormick Collection will likewise be reorganized according to a similar plan. In their final shape, the exhibits in this hall are designed to convey an adequate picture of the culture developments in the Southwest of the United States, in prehistoric and historic times from the Basket makers to the Cliff-dwellers and Pueblos. For the present the cases in this hall have been rearranged to conform as far as possible with this new plan. In the central aisle, running from east to west, are shown models of Arizona Pueblos, the life-size figures of a Hopi bride and a Hopi rabbit-hunter, and two pairs of dancers in full regalia. Following the group of the Hopi home on the south side of the hall are displayed the utensils, and textile and ceramic products of this people. Along the north side are arranged eight of the Hopi altars that are so all-important in Hopi religious life for the production of rain. Thus the western half of the hall conveys a vivid impression of the life-cycle of the Hopi in their work, play, and ritual. The southeast section of the hall, at present given over to supernumerary Hopi altars, will be devoted later on to Southwest archaeology, which is in the main characterized by pottery. The central aisle of this section will be occupied by models of the various Pueblos, commencing with

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Field Museum of Natural History



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the stead part of the half will be present-day Pueblos in Armona and New Mexico.

The Robert F. Cummings Philippone collection was transferred in December from Har. 9 to Har H. He street and the ground floor. Hall 9 has now been devoted to the ethicology and archaethy) of South America. The efficient is a series parpreviously shows in Halls. A core terable are and if the process logical material to a planter of exhibit had been stored at a fine local ing of the read a said because of he hof space in Hair S will be inprised Mexico, Central and South America. This unfortunate condition, whereby the very fine collection of Inca pottery, the beautiful teriral causes from a ritera Poru and excellent material from Chile, Celon bin, and Lo Posta Island were not accessible to the public, has now been remedied. Nineteen cases have been newly matalled or reinstalled for this hall by Assistant Curator Thompson. Much of this material, now exhibited for the first time, is composed of Dr. A. L. Kroeber's very five a Testion made in Peru hat year on the Captair. Marshall Field First Archaeological Expedition to Pero, part, allerly the hitherto unknown culture named Sub-Nazon, as well as part of the collection made by Dr. J. Alden Mason during the Captain Marshall Lieft Expention to Colombia in 1924 Nearly all of the Ecuador collection is now exhibited for the first time. A tun ber of cases previously installed have been carefully gone over. and the material after and rentstailed on light-solored screens. At elect feather-work is chapleyed, framed under glass, on the northeast wall of the half. The Museum's architecouplial cooles ton from South America few computes favorable with any other code tion from this area in the country. Peru, Colombia, Argent. is at 1 Chile. are particularly well represented. The ar hard great order dis-Cases 12:36 are arranged in geographical order ranging from Colonbia as the portheriomet area to Chile as the root southern area. As attempt has been made to fallow the same prompte of arrangement in the ethnological collections, but this work is not yet complete.

Cases in Hall 5, now devoted extract, to Mexico and Central America, have been rearranged so that the extracts progress from northern Mexico scuthward to Parama.

The installation of the Arthur B. Long Co. oction in Hail G has been completed this year, twenty-eight cases having been added to those installed during the previous year. The new exhibits include the ethnology of the Malay Peninsula, the Menangkabau of Sumatra, and the peoples of Java, Madura, Borneo, and Formosa. One of the group cases for this hall was likewise completed, showing a Menangkabau bride and groom dressed with all paraphernalia for the day of their wedding. The faces, hands and feet of the two figures were modeled by Mr. John G. Prasuhn in the Modeling Section of the Department. Good progress has been made on a miniature Menangkabau village group for which Mr. Charles A. Corwin has painted an effectual and colorful background.

A life-size group of Bagobo weavers, consisting of five figures cast and modeled in the Museum, was completed this year and housed in a specially built-in case located at the east end between Halls G and H; in this manner access to this case is afforded from two sides. The Bagobo inhabit the Davao Gulf on the island of Mindanao in the Philippines, and are experts at making textiles from Manila hemp (Musa textilis). The various stages in this process are picturesquely illustrated by this group, from the initial preparation of the fibres and the spinning and dyeing of the threads to the weaving of the cloth on a hand loom and its polishing by means of a shell.

Floor mats specially ordered in New Zealand and the handiwork of Maoris have been placed in the Maori council house (Hall F), which is thus complete. A sketch map of the South Seas, on which the particular island or locality represented in the exhibit is underscored in red ink, has been placed in every case of the same hall, and large maps of the South Pacific have been distributed on the walls of this hall as well as of Joseph N. Field Hall.

As foreshadowed in last year's Report, the Edward E. Ayer Collection of Pewter was entirely reinstalled this year in a very efficient and satisfactory manner. Special wall-cases were built in Room 23 in the northeast corner of the second floor, and these are illuminated by encased top-lights concealed under ground glass, insuring an even diffusion of light over the exhibits. A light blue rep has been chosen for mounting the background and shelves, and the latter are so arranged that the objects placed on them are directly and fully exposed to the light. The material is grouped in 16 sections as follows: Sections 1-8, China; 1-2 (on west wall), Lamps and candlesticks; 3 (on north wall), Vases, figures, and altar sets; 4, Pewter engraved and inlaid with designs in brass; 5, Set of pewter objects used as a wedding gift and dower; 6, Bowls, dishes, and teapots; 7, Ancient tea-pots with knobs, handles and spouts of jade;

Wine-pole and vessels described with executivhely 2 on east way. Trays, benefits, and tempers from lique, 10 on east wall. Tempers of United States and Hardward, 11 on east, 10 on east wall. Tempers of United States and Hardward, 11 on earth, and Samelen; 12. Pales trays, pays, floring performs from France, Dair, and Samelen; 11 Communicate plates, tempers, tempers, including and pull once from Austra, Behamma, and Holland; 14, Mills, excitations, water floring a care a and guild caps from Germany; 15, Candidatrian, trays, prives, beauly, collected, baryon, furnity, and species from the same of the Communication plates and other plates from the same of the.

In outdomnty with the plan to devote the Last and West Gallenes exclusively to Chitis and Tibet, exhibits from Africa, India, Kerea, and Schema uncluding the Amu-were removed from Hall 32 (West Gallery and temporarily arranged in Hall II on the ground flowe, so that the public may have access to them. In the two Gulberies the windows were covered over and the wall spaces thus game! Customer I and the state of the second of th a Capuse of Prince of the Control of Then! ... Hall I has been abandoned, the various divisions of which it consisted having been assigned to the various halls to which the exhibits geographically belong. The Sugnalese masks will now 1. found in Hall E; the Javanese puppet-show, orchestra, and actors' esetutives, in Hall G. The Chinese and Tibetan theatricals have twee transferred to the south end of Hall 32. The religious drama at way the ten purgatories has been installed in a built-in case in this hall. Five cases were a Hel to the Chinese exhibits. One of these a astrates music and musical instruments, and is shown together with the establits of theatricals. A noteworthy feature of this case as a complete series of pigeon-whistles with the names of that majors engraved on them. These winstles are fastened to the tailfeatives of page to, the instruments used in one thork being all turns differently; when the flock of lards is on the wing, the wind sine g the whatles sets them valuating and thus produces a melodo a opendar o trest. Photographs of payeous with the whatles Min to taken in Peling, and a mounted paper thus equipped are pany the enhalt. Other additions are a case estimately ten he . drama; three estraonimary as I unaque half life are in staary May Spiles betweening a universe of the Tony Street Contract of by two independentality, the embreolered designs of the dresses being exquisitely painted in colors; and a wall-case of ancient glass including many colored beads and ornaments of the Tang period (A.D. 618-906). Warfare and weapons of China are illustrated in another case by self-loading repeating crossbows, clay bullet crossbows, a series of eight old bows for testing the strength of candidates for military appointments, blow-pipe and spring-guns, sounding arrows, jingals, and the suit of armor of a Manchu prince, the single parts of the armor and accoutrements being spread out for analytic study, while suits as actually worn are shown in an adjoining case. Many improvements have been made in rearranging the exhibits in the two Gallery Halls, but as the installation is not yet complete and much material remains to be placed on exhibition, the ultimate classification and grouping of cases must be left for the future.

Re-arrangements were made in three cases of H. N. Higinbotham Hall, containing the gem collection.

Skulls and skeletal material were unpacked from the cartons which had served as containers for transportation from the old into the new building, and were thoroughly cleaned. The material was checked, sorted and properly arranged in trays and labeled by the Assistant Curator. It is now placed in the new cabinets built in Room 35 last year.

Cliff-dwellers' models in Hall 7 and all casts of Maya sculptures in Hall 8 were repaired and retouched by Modeler Prasuhn. As previously stated, the group of Bagobo weavers and the life-size figures of the Menangkabau bride and groom were completed by him.

During the course of the year thirteen portfolios were made for the safe-keeping of the acquired Egyptian fabrics. Eleven frames were made for Chinese paintings, rugs and tapestries, and one frame for Peruvian feather-work. Four Chinese and three Egyptian painted frescoes were properly treated, laid in cement and placed in frames under glass. By means of the electro-chemical process, 45 bronze implements were treated for malignant patina; 286 objects were restored or repaired: 96 from Africa, 76 from Kish, 41 from China, 43 from Java and Borneo, and 30 from Peru; and 6,057 numbers were marked on 4,323 objects. Sixteen exhibition cases were poisoned, and material stored in the Poison Room was taken care of in the usual manner.

BOTANY.—The exhibit of native plants, as maintained during the summer of 1924 (omitted in 1925) was reinstated in Stanley

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Field Ha.— The estable was similar to the earlier one described in the Annual Report, 1973, p. 310, with illustration opposite p. 280. The effect product of the product of

In the Bull of Plant Lineary meeting of the state from nuls are the network of the notice of the latest plants one out having the year of the stance I call Flam Does duction later than the later are already in the formal transfer. as to govern the second or an action of the er tire to be if you have a struct to the highest the highest and the a disclosi of the defection in the parts of the world incomplete to land. trep makes as on to prate the Treatist its unitedutive the past year have been as sered by all of the policy pursued in temport to the select of material for these can be a Wherever a well it will am year a fare she the most satisfactory illustration. of the characters or appeared to find family or group of plants to be represented a local species is secreted as it, the case of philaperutuan, or outsimble there so that the willows at long-Where a part far as has better end and end incressibilities, part ett. 12 of heth mare be shown as it the case of the carte where the organic date in the of landar a associated with a larger substituted again to be a furtication the table fruit and the other forms of our tifters Guintin and Introduct respectively. Since larged the assect the technique to Include and comment Woods Live are shown in engage to a with the control Also, the Dramona, gum from the I may to a foot I have etc. Where on the other hand there is need for a fall electated a fall of flat each plant the preference is given to the most format "invesion. This among the birthwarts the trap on Swin I was as considered to represent the built before than the native of the herbors of more an artists "Wild griger" even it was the Wild griger be fected fir and to I wall be turned as the form as a see for the first of the control that cent or an partial is as profession for each first station flass the mature frequencies of an experience of an experience of the experience of placed at the tree of the area

The grape family has in the names been a strated by a reproduction of the eastern Figures, which readed in security limit at the Michigan dunes. As the parent stock, from which has been derived the Concord and other American cultivated grapes, it furnishes, at least in this section of the United States, the most interesting illustration of botanical characters of its group. In the course of time there will be added some typical clusters of a few other wild grapes and of some of the principal cultivated ones.

The oaks have been represented by an acom-bearing branch of the Bur-oak accompanied by a small flowering twig, as well as models showing on a larger scale the structure of the male and female flowers of this oak. In the same case are shown a selection of dried acorns, European and American chestnuts and a small branch of the chinquapin, the entire display representing the chestnut oak-family as fully as space and material permit at present.

For the geraniums, a local wild geranium has been added to the case containing sorrel and the bilimbi branch. A beginning has been made on the barberry family with a reproduction of some Mayapple plants in fruit.

Through the cooperation of the Los Angeles Chamber of Commerce, excellent material of the olive was provided, both preserved and fresh, which made it possible to reproduce with a minimum of difficulty a typical fruiting olive branch. The case devoted to the mallows has been reinstalled with the addition of two new models of plants, both of some economic importance, namely, a flowering and fruiting Okra plant and a fruiting stem of the "West Indian Sorrel," the latter of which is interesting for its persistent and brilliantly colored calyx.

A reproduction of a leaf and flowering stem of the Madagascar orchid commonly known as the "Star of Bethlehem" (Macroplectrum) has been produced for the orchid case, thus adding another different type of orchid flower to those on display. The exhibit of Aroids has been augmented by the addition of a fruiting stem of the Ceriman (Philodendron) with its large, perforated, deeply cleft leaves and curious habit of peeling its fruiting spikes at maturity, recalling that of the Panama hat palms.

A cluster of Nagal dates has been added to the palm fruits in Hall 29. To the case of Proteas, hitherto insufficiently represented by the American Grevillea, and the so-called Australian oak, there has been added a flowering branch of the handsome "Boer's Honey Pot" (Protea cynaroides).

The mushroom collection has been augmented by the addition of a fine model of a Clavaria. Also a clump of a bright orange-colored Clitocybe, the work of Mr. Pray of the Museum staff, by whom it was presented was added to the collection. Mr. Pray has under way several other models of mushrsoms which will, in the course of time, help to fill the need for a fuller display of the bond deshy fong.

Two plant families have always been extensively represented in the cit bits of the control of the control of the control of the maintained at the cit bits takes to be a control of the examined plant material on another basis, it became necessary to split the exhibits of the gross family, placing the grains, starches, etc., with the feest-products in Hall 25, while much of the rest was placed with the fibers and paper-making material in Hall 25.

In the case of the palm family, where most of the material was of a general botanical rather than special economic interest, a different presentative seems to be the control of the first set of the control of the transfer of the control of the transfer of the control of the transfer of the state of the control of the state of the part and station, by still faction or ternal of interest changes carring the Caption Marchial Food Francis Dayson of 1926, the Museum's exhibit of palms becomes extensive and unique. It consists in a large part of very perfectly preserved direct plant in affectal, even in part of very perfectly preserved direct plant in affectal, even in part of the point is in the right of the latter weighting appeared of the point is in the rights of the chief general are already represented. Supplemented by tourisers as plant propose and it because of becoming a march of the device of several control of the control of the chief general and its best around material. If gives promises of becoming a march of several control of several control of the chief general and its best around material.

The restal action of the economic behavior exercises in Hamiltonia estimated. Aftertion was given expressing to the course starting estable easiers. Aftertion was given expressing to the method of display has been made by the removal of all better and jurnalise the travel, the contents of which council to assume property above the level of the cree. The products particular into another established the council of the cree of the starting of the council of a starting distribution of the council of a superior of a starting of the council of the contents. This meeting also for examples the arms given to fine contents. This meeting also for example, in the form of a flow manner desired in a vertical case for example, in the form of a flow-

sheet, which was not possible with the linear series of trays and bottles on shelves. In the case of closely related products, or products from the same source, their arrangement with reference to each other or in relation to their production or manufacture, adds greatly to the intelligibility and interest of their display.

The steps in the manufacture of cane sugar are shown in one-half of a standard case, the process being represented by 23 samples arranged more or less in the form of a flow-sheet. The by-products, alcohol, rum, vinegar and paper from the bagasse, are also shown. The main label briefly summarizes the process, and a world distribution map, appropriately colored, shows the chief localities where sugar cane is cultivated.

The beet sugar process is shown in the half-case adjoining the cane sugar. Beginning with the sugar beet, the process, somewhat different from that of cane sugar, is portrayed in 21 steps arranged as in the preceding exhibit.

In one-half of another case have been displayed various grades of sugar from the world's markets together with a variety of sugars in their original native packages. The collecting of these samples has extended over many years and countries including Java, the Philippines, Peru, Mexico, Egypt, etc. In the other half of the same case specimens of all the known sugars of importance, viz. cane, beet, maple, corn, grape, etc., have been placed for comparison. In addition there are displayed such rare sugars as levulose and mannose, some of which are seldom seen outside the laboratory.

In another case have been installed a series of samples of the edible vegetable oils, also sealed in glass tubes and associated with a specimen showing the botanical source of each. From this exhibit it may be seen that there are about 15 edible oils of vegetable origin in use in the United States.

The starches have been treated in a similar manner, the seven principal commercial starches being displayed conspicuously in large tubes, while some twenty other starches, of more or less importance in their respective localities, are less prominent in smaller quantities in smaller tubes.

During the course of the year, products made from corn, now occupying an entire case, were reinstalled and brought up to date. These include corn oil, gluten, starch and various derivatives and preparations from starch such as envelope gum, corn sugar, alcohol and corn whiskey. As in the case of the sugar-making exhibit, the products are sealed in tubes arranged in the form of a flow-sheet.

A general label describes the process, and a diagram of an enlarged even kernel shows the percentages of the various products. In the center of the corrupted-uring sives of the United States such a corrupted-ucts exhibit should be of interest to many vinters. A beginning has been made on the exhibit covering the small grains and their products the process of a second covering the small grains and their

The herbur on more grant from the party of a of current accessions, has included some further progress in the study of the Peruvian collections by betamets at other institutions, as recorded in two previous Annual Reports. The study of the Murtaceae, first undertaken by Mr. E. P. Killip, United States National Museum, has been transferred at his request, to Dr. M. Burnett of the Betanical Garden and Museum of Berlin, Mr. L. B. Smith of the Gray Herbarium is determining the Browelincene. Mr. G. E. Messal, & Rockland, Maine, has reported on the lichens o . ected by 1 " t. S. Drone and Mr. R. S. W. of the bear York Latura, Garden studied the moon. There speculate it is cuted a number of tea ages on at 1 Mr. Williams prepared a page to a has group at this being all steel to the Massam. A shirt paper by Mr. J. F. Marker of an argifur the most part with the Paragraph Powering a latter it had by a review of the South American species of Parana has also been prepared for publication

Dr. Paul C. Statisliey of the United States Enthand Museum has contributed determ tubures for the majority of the Commer codes from all Yamatas, led Assumil Report of the Director for 1925, p. 445., but the proparation of each for exchange has not yet been completed.

Loans made or returned during the year, apart from Peruvian material that he with up to date the organ initial of respective groups in the herharden, included the following:

Tweel at red tharty specimena of Helicandian to Mr. E. E. Watton,
East Litton y. M. E. yat. 1 So shorts of Song transformers to Tr. F.
W. Fertner, The Analysis of Statuted Southers, 11 and plan in 11
specimens of Hemistering and allows to 10: However, W. Indiano,
Ann. Arbeit. M. South, 68: Physics to 10: W. Indiano, University
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Notable among the content to the forther years or used to startly one Fernanders of Marin and artists of Oxford Oxford the distinguished in the office of the content of the forther of the beheven making any tenenous of the participation of the content of Geology.—Two cases were temporarily installed in Stanley Field Hall, and two of a more permanent nature were also placed there. To make room for these, the exhibit of mineral colors was dismantled and removed, as well as the exhibit of South American fossils in a floor case which was discontinued. One of the new exhibits installed illustrates the evolution of the modern horse. A series of skulls and limb bones of the successive members of the horse family, from the little Echippus of Eocene age, to the modern Equus is shown in this case. The increase in size of the developing types, the growing complexity of the teeth, and the advancing predominance of the middle toe of these animals in the course of evolution, are all illustrated by specimens. In addition, a model, one-fifth of natural size, is shown of each type.

In the other geological wall-case installed in this hall, a comparative representation is made of fossil and modern plants and animals. Altogether, 56 specimens are shown in this exhibit, of which 30 are in the fossil state, 22 are modern forms, and 4 are models of modern forms. So far as possible, each fossil form has its nearest identical modern form placed beside it. The most ancient fossil form is also used so far as possible. There are also illustrated some of the types such as Trilobites and Eurypterids which have become entirely extinct and thus have no modern representatives. The dwindling of forms, such as that of the plants known as "forse tails" (Equisetae) and club mosses (Lycopods) during the passage of time is illustrated, as is also what are known as "immortal" types, of which the genera Lingula and Pleurotomaria are examples. These have remained unchanged through millions of years.

Geological cases temporarily installed in the hall included one containing dinosaur eggs and skulls, and photographs illustrating the field work of the Third Asiatic Expedition. Another one included specimens of agates, amethysts, geodes and various crystallized minerals from South America collected by Associate Curator Nichols on the Captain Marshall Field Brazilian Expedition of 1926.

In Hall 34, minerals to the extent of 40 specimens presented by Mr. W. J. Chalmers were installed in their appropriate places in the systematic and crystal collections. In connection with this installation, the crystal collection was reinstalled after thorough cleaning of the cases.

Two cases of concretions in this hall were also reinstalled in order to introduce some new material and give a more systematic arrangement. The large is a common to the first thin of the bed during the year was not bed in a true to see any 1 to the larger one of the name full.

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The model of a large of the minimum to the way from but year was a special and provided the state of the Bullion of Yand Song of the Bullion of the

The front and to the right of the consoline above the one pictors with it the consoline that we associated. The front in promotion the group of but the pictors are to be introduced in the long schools at the front. For the right a large steam is real as much to the but dips the consoline and the large that of the building to the large to the large to the large that of the building tour the entire. The curvature represented pulsed to enable to the loop of the building where there are two uniquely much tree which empty of the restrictions in the large three are therefore.

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In these should be should unjoy of first of earth-out start which takes car's proof for a first attack out on the control of the brings are improved to the the larger presented to the brings are burness.

As already mentioned, the kilns are shown in the long sheds at the rear of the model. Five kilns in various stages of erection or demolition are shown. There are also shown freight cars loading bricks for removal, oil tanks in which oil for burning the bricks is stored, a water tower, office building, machine shop and various other accessory features which form a part of the equipment of the working plant. The latter include models of 100 trucks, 2 locomotives and 50 workmen.

The construction of the model was the work of Valerie Legault, Preparator in the Department of Geology. The skill and accuracy of his work are highly commendable. The drawings and plans according to which the model was built were made by Associate Curator Nichols. President William Schlake of the Illinois Brick Company presented the case in which the model is exhibited, and gave free access to the plant for studying its features and use of all drawings and plans which might be of assistance. Superintendent Lambert and Foreman Aregood of the Plant also freely furnished information and assistance during the construction of the model.

Two cases were removed from Hall 36 in order to make room for a model illustrating diamond mining which is in course of construction. The contents of the case of by-products of coal in the same hall were removed, carefully cleaned, renovated and then reinstalled.

In the Hall of Historical Geology, Hall 38, a number of vertebrate fossils have been installed, these being chiefly specimens from South America collected by the Captain Marshall Field Paleontological Expedition in 1922-3. These specimens were placed on exhibition as fast as they were prepared. They include a skull and jaws of the large fossil sloth. Scelidodon, and a skull and jaws of the extinct South American horse, Equus andium. To the large Glyptodon carapace, previously exhibited, were added skull and jaws, and tail and limbs, thus completing the exhibit.

Of the specimens received from the Third Asiatic Expedition. seven dinosaur eggs, a skull of the dinosaur. Protoceratops, and a skull and other bones of the same species in matrix, together with photographs illustrating the occurrence of the fossils, were installed in a separate case. This exhibit was for a time placed in Stanley Field Hall and later removed to Hall 38. The skull and jaws of the large titanothere, Dolichorhinus, also received from this Expedition. were installed adjoining the American representatives of this group. in Hall 38, as was also a cast of the skull of the great extinct Asiatic carnivore, Andrewsarchus. The case containing fossil crinoids and models of dimensions exhibited for a time it. Stanley Field Half was later removed, with its contents to Half 3s. Two large casts, one of the Glyptodon and one of the shull and tusin of Stepodon were removed from the half.

The family interested and branches, and fossel invertebrates from Argentina, previously exhibited in Stanley Field Hall, were also placed in their strategraphic order in Hall 38.

Work in the laboratory of Vertebrate Paleontology during the year was largely devoted to preparation of material collected in South America by the Captain Marshall Field Paleontological Expeditions of 1923-4. Specimens of this collection prepared for exhibition during the year were the following: Of the Glyptodon, a campace of which was previously mounted; a shull and lower jaws, tail sheath, two tileas and fibulas, two ulnne-radii, one front foot, and nine caudal vertebrae; one ulna-radius and one front foot modeled from these; of the great sloth, Sceladodon: a skull and lower jaws, a foreleg and feet and a series of servical serietima. of the South American is re-Equal bounds are county were used Furth poor a ferefeet of Marras her at two ulnae-radii, one pelvis and one foot; of Bor-Experie the same and a part of lower place of Clubes to one sky of Nesset in land, radius and first borner most important of ar of the South Amen on Mustock to a skull and lower power of t tunes the latter five feet in anoth

Three designed tours in intracting topical Bracolar distributed in test were modeled by Mr. Praculated the Department of Arthropology for the Lepartment of the gr. Those figures were building part on poses from the and on total a shown in philographs much by the Counter of Cercings in the Latin. Bracolar and the facilities of the Counter of Cercings in the Latin. Bracolar and the facilities of the Counter of the analysis of a group adultation of point methods of these of the counter of mining in France.

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But meteorites four row and two stone more on i to the United States Dat and Museum for set to be and a variety of sections were made. Later some of these were obtained in the Museum laboratory. ZOOLOGY.—The new installations in the Department of Zoology were fewer in number and less noteworthy than were the reinstallations, completed or still under way. Other important changes were made that added much to the interest and educational value of the exhibits.

A notable reinstallation was inaugurated in Hall 16, which contains the groups of North American mammals, whereby all of the four-sided cases will be replaced by built-in cases with but one or two sides of glass and curved backgrounds on which scenes of the habitats of the specimens exhibited can be painted. The adoption of this new type of case for groups will result in the elimination of objectionable glass reflections, in a considerable saving in exhibition area, and permit of a much more effective representation of the natural environment of the animals. On each side of the eastern end of the hall, three of the new style cases were built; the four end cases will have glass on two sides, while the two middle ones will have but one glass side each. In one of the two larger middle cases, a long delayed group of American Elk will soon be installed, the background for it having been painted by Mr. C. A. Corwin. cases are to accommodate some of the groups now on exhibition and others vet to be completed.

Two spaces on each side of the eastern end of Hall 16 were unsuitable for exhibits, therefore they were enclosed and made into excellent two-view group cases. In one, the group of Stone's Mountain Sheep was reinstalled with the addition of an appropriate background painted by Mr. Corwin. Some changes were also made in the groundwork and grouping of the animals. By means of this reinstallation the group has been made more attractive and a better representation is given of the animals' natural surroundings. In the other new case, opposite the Mountain Sheep, a new and pleasing group of five Rocky Mountain Goats, mounted by Mr. Julius Friesser and Mr. A. G. Rueckert, of the Museum staff, was installed. The background and the rock accessories depict accurately the high, bleak home of these animals.

For the inauguration of a hall of Asiatic mammal groups, two one-view, built-in cases were constructed in the east end of Hall 17, which in the meantime, contains exhibits of skeletons. A group of Marco Polo Sheep and a group of Ibex will be the first to be installed in the new hall. These are probably the two most interesting animals collected by the James Simpson-Roosevelt Asiatic Expedition. The background for the Ovis poli group has been painted by Mr.

Corner and some work by the same affect has also been done on the Lain at 1 for the lber group.

The renstallation of the exhibits in Hall 16 required the removal of most of the greates to make room for the new cases. It also Several lated the granting of the four-production concerning the a self-up were proceed to Copyright a Notice of the Theory well of the late to at E. Alexandra acte particles of the site (that is a first or in the first of the control of the contro en parent that are a further until on the last given as the sacution to call in order to conseal the lights. To render the lighting st. I more effective, the cases were puncled at the top. This work, as well as other changes and additions in the hall, made these cases inaccessible to the public for a number of months. The groups. however, are being cleaned, and in a few weeks they will again becli ' del

Teste established production products in the extension party or size Hall be a worse of the section of th early beautiful promoting or any ambiguity must leave the best of the the policies of the former and the personal of therefore place in the lattice and and a support to the lattic transfer and Area of a figure party for the first

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Mark Private having been should by the patter by the results of est in I was much in the health of the interest patrior in

birds, mammals (including the skin of the Jaguar shot by Mrs. Field), reptiles and insects. In the north end of the same hall a model of the new Chicago Zoological Park, near Riverside, Illinois, was placed on exhibition and attracted much attention.

Considerable progress was made on exhibition work of a preparatory nature on mammals, birds, fishes and insects. Several mammals also have been completed and are ready for installation. These include a group of Cobus Antelope and a cellulose-acetate reproduction of a Hippopotamus.

The reference collections have been improved in various ways. While being catalogued, many birds were identified and distributed wherever room was available. To relieve the crowded condition of the reference collections of birds and mammals, four two-section, large metal storage cases with sliding doors were purchased. In the division of osteology 2.037 skulls and skeletons were cleaned. Crates and cartons of osteological material to the number of 54 were unpacked, their contents placed in individual boxes, labeled, indexed and then distributed.

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

At the close of the year, 965 cases were available for loaning to the schools of Chicago. Of this total, 57 were prepared during the period under review. In addition to these cases there are a number in various stages of completion, as well as several that had to be repaired and others in which the installation required attention. During the school-year 1926-1927, scheduled loans of cases are being made to 371 schools, an increase of 18 schools over the previous year's schedule. In carrying out the plan of loaning two cases to each school for a period of two school-weeks 742 are in daily use. The list of schools, etc. to which cases are being loaned include: 326 elementary schools; 3 junior high; 13 senior high; 3 technical high; 8 continuation schools; 1 normal; 1 parental; 1 reform school for boys; 3 private schools; 3 Catholic schools; 4 branches of Y. M. C. A.: 1 orphan asylum; 2 community centers; 1 boy's club; and 1 branch of the public library. In order to deliver these cases to the various institutions, etc. by means of two trucks, the city is divided into two sections.

Interest in the cases and a desire for their use is not only increasing in the field for which they were originally intended—viz, the public schools of Chicago-but beyond the city as shown by the steadily growing number of requests to have them delivered regularly. As



Erratum:—Plate XII, Ancient Mesopotamian Wheat, description should read "These charred kernels" instead of "cleaned kernels."

in previous years, requests for the loan of cases were received from s area other than schools, and fulfilled, including the following: 11 cases loaned to the Chicago Art Institute, for use in the juvenile classes 12 cases exhibited at the annual show of the Wild Flower Preservation Society of America; 10 cases of hard subjects put on ex-I but a in the book section of Marshall Field & Company, in order to stimulate interest in looks on birds. At the request of the Sorretary, Bureau of Parks, Playgrounds and Beaches, of the City of Chicago, 24 cases were placed in ext. but it at the Man oped Plot. Those were attractive, y note set and proper of considerable interest to a great from her of word in to the pier. At the suggestant of its president of cases were and of a two weres to the Nastrane Art Association will. the elegant of fastering interest in the natural history museum there. The Director of the New York State Museum at Albata responsed the last of four mass for general training before legislative commutatees. etc. the desirationty of relating and emphasizing the work of the museum, it it's respect with the schools of the State of New York.

Mr. A. W. Harras generously provided funds to enable the Mussium to assert as it stated to entable a number of cases of the Harra Externs at the Sea, a nation al Lapse tion, for which purpose 22 cases were selected. Those classes not only represented structural types is use, but also a wide diversity of subjects of natural hatter, as I come as that have been and are being studied in the selection of Comp. Liber's were prominently displayed on the cases and there were also distributed and mailed to tenders and classification institutions. In Pennsylvania and neighboring states, 2000 is a satisfact pair points describing the foundation of the Department and the system it believes in preparing and learning cases.

ART RESEARCH CLASSES

The coasses in research from the School of the left Institute of Ch. ago control the Museum daily. Statistics prove that the cortainment is in reading attended. The said prove hy lead Museum and the Art Institute whereby reasons material and direct for class work at my feguring to be followed up by other read tailorie. The work of the class is remark in previous beginning and it is completed a fees prove in the calculation field.

The large parties on research on past by Mr. Wilarts is regarded as the control basis of its large, published in the I rated States. There has been a conclusive demand however, for a cheaper book on the same subject. To meet this call a smaller book, contacting 46 plates, 10 of which are colored, was compiled by the same author, and it is suitable for use in junior and senior high schools.

A motion picture film, showing the study of art research in the Museum, has been released in the Pathé Review, and sanctioned by the New York office of Pathé, this picture will be shown throughout the United States.

PHRLICITY

General.—During the last few years the scope of the Publicity work has been enlarged to include the aims and functions of the Museum, in order to create a closer relationship between the public and the Institution. To ensure this, international as well as national and local mediums were used. The greatest emphasis, however, was laid upon local efforts. The principal aim of the work is to instil an interest and a desire on the part of the citizens of Chicago and visitors to the city to visit the Institution.

Not only were attempts made to attract the public to the Museum through arousing an interest in its exhibits and activities, but especial efforts were made to acquaint the stranger to the city with the ways to reach the Museum. Various advertising mediums were generously placed at the disposal of the Museum without charge, and this opportunity is taken to extend the gratitude of the Institution to the donors of the space.

Press Publicity.—An average of three news stories, many supplemented with illustrations, appeared each week in the Chicago daily newspapers. These articles ranged in length from items of fifty or sixty words to half or full column stories, or in some cases full page feature articles dealing with the more important activities of the Museum. It may be conservatively estimated that the accomplishments of the Institution were brought to the attention of the entire reading public of the United States and Canada, as well as the readers of the leading foreign newspapers, during the year under review.

National and international news and pictorial agencies which distributed information pertaining to the Museum during 1926 included the following: Associated Press, United News, United Press Associations, Newspaper Enterprise Association, North American Newspaper Alliance, Western Newspaper Union, International News Service, Universal Service, Consolidated Press, Central Press Association, Underwood & Underwood, International Newsreel, Pacific and Atlantic, Acme, Wide World Photos, and Kadel and HerMass on ficus of of a attach with foreign tents agreed in Field.

Mass on ficus of of a attach and and general internal was given publicity

to at by leading European and Anador from before, including

Exchange Telegroph, Central News, Reuter's, Advisor Ender, Rieda,

Ritish United Press, Neppon, Demiso, and Havon, as well as offer

agreeign operating in various parts of the world.

Throughout the year leading topular magazines, as exemplated by the topular and the second deal of space and commendation to the general activi-

ties of the Museum.

Asyletteristic. As in the previous year, the Chicago Rapid Trace? Company landly displayed in the various elevated stations a series of six colored pasters depicting Museum exhibits. The name company and the Itlinois Central Radroad also displayed placents automate the lecture courses delivered during the spring set automate. Overhead pesters, advertising the Museum, were placed by the Chicago Sarfore Lines at their own expenses, and daylayed in the afrest cars. Through the country of the Indust Agreetising Company, the Illinois Contral Radroad continued to devote advertising space in its subarloan trains to the Museum.

Posters were distributed to libraries, schools and other institution to advertise the spring and autumn lecture courses for adults.

The state of the s

DIVISION OF PRINTING

The increasing usefulness of the Division of Printing was again indicated by the numerous demands made upon it for work. Although 3,665 more exhibition labels and over 182,000 more impressions of a general character were printed than in the previous year, nevertheless it was not possible to give all the work prompt attention. The following publications were printed and bound during the period under review.

Regular Publication Series	12,426	copies
Leaflet Series	29,127	66
Memoirs Series	1.521	44
Museum Manual	5,000	44
General Guide	2,536	4.4
Descriptive Booklet for Membership	6,000	66
Anthropology, Guide No. 6 to the Ethnology of Polynesian		
and Micronesian Islands	5,000	4.6
Rules and Regulations for Expeditions	200	6.6
Publication Price List	300	**
Geographic Society Year Book	2,060	64
Pictorial Post Card Albums	10,109	44
Reproductions of Antiquities of Ancient Ireland	3,000	**
Total	77,279	copies

The number of labels and other impressions follows:

	Labels	Impressions
Anthropology	3,923	4,300
Botany	2,458	8,275
Geology	1,187	3,653
Zoology	2,059	16,985
Harris Extension	317	24,370
General		596,449
Geographic Society of Chicago		59,400
Total	9,944	713,432

The size of the Museum's regular publications necessitated the use of plates that did not always do justice to the objects illustrated. Therefore, a quarto series, measuring 9" x 12" and entitled Anthropological Memoirs, was inaugurated. This quarto publication not only makes it possible to illustrate large specimens to good advantage, but the larger and wider margins make it much more legible and pleasing.

No additions to the equipment were made during the year.





Field Museum of Natural History

DIVISION OF PHOTOGRAPHY, ROENTGENOLOGY AND HAUSTRATION

Phorogrammy. The total number of lantern slides, negatives, and prints made by the Division during the year amounted to 13,656. The following tabulation is a summary of the work performed.

Landers Philoso Maide	Arganire Made	reals Made	I new tea I be resigned first 3 word Engress to man
5	555	2,621	6
	91	731	102
		1,149	-60
31	155	1,447	212
	40	146	
	209	506	4.2
1,194			
	50		
2		520	
	214	275	
1,167	1,653	10,087	645
	Finales S	Number Made Mande Minate Mande Minate	Tanders Tander Tander

REPRESENTATION OF AN Important installation made during the year at the completely equipped x-ray laboratory, marking a new departure of museum practice. President Field personally financed the equipment of the laboratory, which has been developed as a draman of resultensies; in charge of Miss Anna Reguladda Bolata.

So far as a known Field Museum is the only institution of its land to be equipped with a complete x-ray service:

The object of this new division is to aid in the examination classification and differentiation of natural history specimens. The scope of the work will extend to all the departments of the Museum

Photogravith. The number of photogravares made during the year exceeded the total for 1925 by 218,636. The following indicates the work of the division during the year.

	Summer of France
Report of the Director	20,600
Leaflet 1 matratures	Total Committee
Pieture Piet Cart Alfur.	500 6000
Post Carde of Free! Museum	1 - 100
Membershy Headings	1
M nighture (ande	S.C. comes
Brb. e. Carde	15"
Total	220.200

102 FIELD MUSEUM OF NATURAL HISTORY-REPORTS, VOL. VII.

ARTIST.—The following is a resume of the work executed by this division during the period under review:

Drawings made	. 274
Lantern slides colored	. 619
Photographs retouched	. 54
Negatives blocked	. 98
Miscellaneous items made	. 13
Total	1.067

ATTENDANCE

During the year the Museum was visited by 930,571 persons, which is approximately 207,621 more than the figure for 1925. From the statistics it may be inferred that the past year has been the most successful—as regards attendance—in the history of the Institution. The fact that more people have visited the Museum during the last five years, than in the seventeen years when it was located in Jackson Park, proves beyond doubt the advantage of the new location over the old site. This increased interest in the Museum serves as an impetus and inspiration to members of the staff to increase and perfect the means of disseminating knowledge. An analysis of the admissions is made elsewhere in this report.

Herewith are also submitted financial statements, lists of accessions, names of members, etc.

D. C. DAVIES, Director.

JAN. 1927

16.994

ATTENDANCE STATISTICS AND DOOR RECEIPTS PROM JANUARY & 1835, TO DESCEMBER SE 1835

550 571 Total Attendance 136,741 Pand Attendance Pres Admiss. Lt . z lay l'aya 17.5 4.60 Blude, te Produce 6 budtes 1 416 Teachers. . . . Mem terre Dipmera. acreunt Nucharistic Congress, June, 1926. 25,289 Administration of live lings a - 15 Thursdays 50 194, 111 Bundaye 12 427 211 Mighest Attendance on any day June 20 1926 Lensest Attendance on any day March 31, 1926 Highest Pai Attendance Ture 21 1920 Average Iraly Admissions 366 days. Average Iraly Admissions 1926 days. 54 004 1 4um 2,549 654 1.000 Number of the dee said 21 144 Number of Artures theread Number of Priture Posts Cards sold

Salm of Publications, Leadets, Handbooks and Photographs \$3,511 #0

GENERAL FUND

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS AT DECEMBER 31, 1926

Balance, December 31, 1925......\$15,895.47

RECEIPTS

Income—Endowment, General, Miscellaneous and door receipts\$	309 396 71	
South Park Commissioners.	177,432.05	
Sundry Receipts	12,631.21	
	77,905.00	
Contributions. Sales of Securities.	329,931.18	\$1.598,945.01
Sales of Securities	091,048.80	\$1,598,945.01
Dranymanyma		\$1,614,840.48

Operating Expenses	461,558.91	
Expeditions	120,540.01	
Collections Purchased	113,521,77	
Furniture and Fixtures	12,024.60	
	855,217,05	
Annuities on Contingent Gifts	39,665.00	
\$1,602,527.34		

\$1,602,527.34 Transferred to Sinking Fund	\$1,6	15,427.34
Overdraft, December 31, 1926	\$	586.86

THE N W HARRIS PUBLIC SCHOOL EXTENSION

STATEMENT OF INCOME AND EXPENSES FOR THE YEAR 1926

INCOME

Operating Expenses 102.4s. bit
Operating December 51.1s.6 Sho 55

STANLEY FIELD PLANT REPRODUCTION FUND STATEMENT OF INCOME AND EXPENSES FOR THE YEAR 1828

ACCESSIONS

DEPARTMENT OF ANTHROPOLOGY

ADVENTURERS' CLUB OF CHI-

CAGO.

50 objects: wood carvings, carved stones, bone needles, tapa and skulls—Easter Island (gift).

AMERICAN FRIENDS OF CHINA, Chicago.

2 objects: 1 brocaded imperial tapestry and 1 imperial chaircover of tapestry weave—China (gift).

ARTS CLUB OF CHICAGO.

5 objects: 1 wooden figure of man, French Congo; 1 wooden female figure and 1 stringed musical instrument, Sudan; 1 wooden figure, New Caledonia; 1 wooden figure, New Zealand (gift).

1 carved and lacquered wooden dragon screen, 10 feet, 4½ inches high, 7 feet, 9 inches wide—Peking, China (gift).

AYER, EDWARD E., Chicago. 1 old pewter jar with punched designs—China (gift).

3 pewter objects: 1 lotus dish, Tang period; 1 decorated tea-pot, 18th century, and 1 tea-pot— China and Japan (gift).

10 objects of pewter: 1 tray, 3 boxes, 1 tea-pot, 1 vase, 1 censer in shape of dragon, 2 pairs of candlesticks, 1 single candlestick—China (gift).

2 pewter objects: 1 cash-box, 1 pair of candlesticks—Swatow and Canton, Kwang-tung Province, China (gift).

2 pewter objects: 1 wine-pot in shape of carp, 1 tray with designs inlaid in brass—China (gift).

2 pewter objects: 1 dish fitted with carved coconut shell and 1 lacquered tea-jar—China and Japan (gift).

4 objects: 3 pieces of pewter and carved coconut shell, and 1 tailor's iron of brass—China (gift).

 pewter bed-warmer—Strasbourg, France (gift). 1 pewter medal "Continental Currency 1776"—United States (gift).

1 pewter tray inlaid with designs in brass, Ming period—China (gift).

5 pewter objects: 1 tray and 3 tea-jars with designs in colored lacquer, 1 tea-jar with engraved designs—Japan (gift).

2 pewter tea-pots inlaid with designs in brass—China (gift).

BAHR, A. W., New York City.

1 ink drawing of pig, mounted on silk in form of a scroll—China (gift).

BORLAND, MRS. CHAUNCEY B., Chicago.

1 ancient mortuary clay figure representing a rhinoceros—Ho-nan Province, China (gift).

BROWN, W. DUVAL, Rio de Janeiro, Brazil.

1 ornament of strung seeds with marble tube in center— Taracua, Brazil (gift).

BURR, RICHARD, Chicago. 1 tapa beater—Hawaii, Polynesia (gift).

CARPENTER, MRS. JOHN AL-DEN, Chicago. 1 carved wooden figure of woman— West Africa (gift).

CHANDLER, M. G., Chicago.

5 objects: 1 Iroquois woollen sash, and 2 woollen sashes, I roach of deer hair, and 1 pair of beaded moccasins of the Potawatomi—Iroquois and Potawatomi, New

York and Kansas (exchange). EGAN, W. C., Egandale, Highland Park, Illinois.

11 objects: 4 skullcaps of hazelroot basketry—Klamath, Oregon; 1 bow and 6 arrows— Africa (gift).

FIELD, HENRY, Chicago.

About 100 prehistoric flint and quartzite implements— Bobadilla, Spain (gift).

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300 objects ruits og hunting m postments trous ratings as y as, etc. Greenward and Labrador

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- 74 flax mate for Macon country beam Macon New Zealand, from J. McDonaud Dominion Museum Wellington, New Zealand.
- 44 objects med une lags medicine, bowl levis lags modist, bone recommendation etc. Witherlages, Nelsanas, from Oliver LaMers.
- FIELD MUSEUM-OXFORD UNI-VERSITY JOINT EXPEDI-TION Captain Marshall Food First
 - 274 objects plan, painted and gaze puttery, stone bone, are a control of the contraction in the con-
 - 4. The second se
- PIELD, STANLEY, Chicago I shrunken heads of Jivaro, 1 male and 1 female Ecuador, South America gilt.
- HAGUE, WHALIAM E. Chango see status of the age of day of the see age of many of the age of
- HARA B. Nagoya, Japan Z glased potter; juge anoun in Japan ao Namban South Utina and Japan gift.

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di minenta 49 fini mirementa, i arrog f beads and 1 puttery stern frecamato County, Oklabotta (gill

, harrely been Campa I fame

Suwa, Fiji, and 1 basket, Ko-rea-New Guinea, Fiji, and Korea (gift).

LINDEGREN, MR. AND MRS. C. C., Rhinelander, Wisconsin.

14 flint arrowheads and flakes-Beebe White County, Arkansas (gift).

LONG, LINUS, Chicago.

1 ivory figure with ivory base, of Tung-fang So, Ming period (1368-1643)—China (gift).

MACMILLAN, COMMANDER D.

B., leader of Crocker Land Expedition, Freeport, Maine. 4 specimens: 1 fur-lined beaded jacket, 1 pair of sealskin breeches, and 2 pairs of sealskin boots, being complete suit of Eskimo girl-Greenland (gift).

MANDEL, MR. AND MRS. FRED L., Chicago.

inscribed Lamaist paintings-Tibet (gift).

MARR, JOHN C., Oaklawn, Illinois. 2 flint arrowheads-Farm near Joliet, Will County, Illinois (gift).

1 old silk fan painted with landscape-China (gift).

MORI, S. H., Chicago.

NARJAL, HERMAN W., Chicago, 1 fur coat-Eskimo, Point Barrow, Alaska (gift).

OPENSHAW, REV. H. J., Chengtu, China.

2 objects: 1 rubbing of Chinese inscription of Han period from Lu-shan, Ya-chou fu, Szechuan, and 1 collection of handwritten compositions on silk-China (gift).

OTAGO UNIVERSITY MUSEUM, Dunedin, New Zealand.

139 objects: prehistoric implements of stone and bone, adzes, arrowpoints, fish-hooks, drill-points, needles, spear-points, and flakes -Otago, New Zealand (exchange).

PLAUTZ, HENRY F., Oconomowoc, Wisconsin.

1 quartzite scraper-Oconomowoc, Waukesha County, Wisconsin (gift).

RINEHART, WILLIAM G., Batesville, Arkansas

objects: 2 prehistoric grooved stone hammers and 1 prehistoric rubbing stone—Ionia, Michigan, and Batesville, Arkansas (gift).

SARGENT, HOMER E., Pasadena, California

1 red and black serape-Mexico. SHETRONE, H. C., Columbus, Ohio. 1 small sample of woven fabric— Seip Mound No. 2, Bainbridge,

Ross County, Ohio (gift). SMITH, MRS. GEORGE T., Chicago. 158 objects: 101 money belts, 24 pouches, 4 cases of spectacles, 3 caps, 3 pairs of slippers, 23

small pieces, all of colored beadwork-China (gift). SMITH, MRS. GEORGE T., MRS. JOHN J. BORLAND, MISS K. S. BUCKINGHAM, MAR-TIN A. RYERSON, JULIUS ROSENWALD, OTTO C. DOERING, AND MARTIN C. SCHWAR. Chieggo

C. SCHWAB, Chicago. 656 archaic jades-China (gift).

STROBEL, MRS. CHARLES, Chicago.

1 suit of armor, 17th century-Japan (gift).

TURNER, CHARLES J., Chicago. 9 objects: 1 tomahawk pipe, 1 tobacco case with bead and quill work, 2 knife sheaths, 1 war club, 2 pairs of moccasins, 2 dolls—Sioux, Standing Rock Agency, North Dakota (gift).

UPHAM, MRS. FRANK R., Marshfield, Wisconsin.

2 objects: 1 wampum belt—Mo-hawk Valley, Keddersbury, New York; 1 knife and chopstick in sheath-China (gift).

VAN SCHAACK, PETER, Chicago. 1 pair of sealskin shoes-Lapp, Hammerfest, Norway (gift).

WHITTLE, B. H., Hobart, Tasmania,

change).

Australia. 50 chipped stone implements gathered from old camp-sites-Barnards Creek, Mt. Leslie, etc., Tasmania, Australia (ex-



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GARPILLO PARE CONSERVA-TORY, Chicago

I economic specimens, palm leaves gift .

GLIDDEN FOOD PRODUCTS COMPANY, Chicago

I exchange specimen, white musrated and on art

110 FIELD MUSEUM OF NATURAL HISTORY-REPORTS, VOL. VII.

- GRONEMAN, C., Elgin, Illinois. 4 herbarium specimens (gift).
- HALDER, I. M., Laurens, Iowa. 1 economic specimen, 6 ears of corn (gift).
- HAMMERMILL PAPER COM-PANY, Erie, Pennsylvania. 13 economic specimens, paper making exhibit (gift).
- HUNGARIAN NATIONAL MU-SEUM, Budapest, Hungary. 100 herbarium specimens (exchange).
- HYNES, J. A., U. S. Appraiser's Office, Chicago.

 1 specimen, "silver leaves" (gift).
- ILLINOIS POWER AND LIGHT CORPORATION, Chicago. 1 economic specimen, log (gift).
- IMPERIAL FORESTRY INSTI-TUTE, University of Oxford, England.

100 herbarium specimens (exchange).

- KANN, R. G., Rakuda Wood Products Company, Pittsburgh, Pennsylvania. 4 wood specimens (gift).
- LOS ANGELES CHAMBER OF COMMERCE, Chicago Headquarters. 12 economic specimens, grapes,
- olives and honey (gift).

 MAYER, L. S., State Experiment
 Station, Knoxville, Tennessee.
- Station, Knoxville, Tennessee.

 1 economic specimen, 6 ears of corn
 (gift).
- "A MEMBER," Field Museum, Chicago. 1 specimen, lace bark (gift).
- MITSUI AND COMPANY, LTD., New York City. 1 economic specimen, soya bean
- oil (gift).

 MOFFATT, DR. W. S., Wheaton,
 Illinois.
- 1,228 herbarium specimens (gift).

 MONTERO, G., Museo Nacional de
 Chile, Santiago, Chile.
- 1 herbarium specimen (gift).

 MOORE, G. E., Lebanon, Missouri.
 1 herbarium specimen (gift).

MUSÉUM D'HISTOIRE NATU-RELLE DE PARIS, Paris, France.

500 herbarium specimens (exchange).

- NATIONAL MUSEUM OF WALES, Cardiff, Wales. 566 herbarium specimens (ex-
- change).

 NEAL, H. W., Lebanon, Tennessee.

 1 economic specimen, 6 ears of corn
- (gift).
 NUTTALL, L. W., Philipsburgh,
- NUTTALL, L. W., Philipsburgh, Pennsylvania. 1 economic specimen, ephedra
- (gift).

 PEATTIE, D. C., Rosslyn, Virginia.
 50 herbarium specimens (gift).
- PHILLIPS, O. F., Chairman Board of Review, Bureau of Agricultural Economics, Chicago. 11 Trays of official grain standards, U. S. A. (gift).
 - PILLSBURY FLOUR MILLS COM-PANY, Minneapolis Minnesota. 1 flour mill model (gift).
 - PRAY, L. L., Chicago.
 1 reproduction of a mushroom
 - (gift).

 RECORD, S. J., New Haven, Connecticut.
 9 economic specimens, palm seeds
 - REDFERN, R., Yarmouth, Iowa. 1 economic specimen, 6 ears of corn (gift).

(gift).

- RED STAR MILLING COMPANY, Wichita, Kansas. 50 economic specimens, wheat mill-
- ing (gift).
 ROSE, J. N., Washington, D. C.
- 1 herbarium specimen (gift). SAWYER BISCUIT COMPANY,
 - Chicago.
 1 economic specimen, cracker exhibit (gift).
- SHERFF, E. E., Chicago. 50 herbarium specimens (gift).
- SIEGLINGER, J. B., Woodward, Oklahoma.
 - 10 economic specimens, heads and seeds of sorghum (gift).

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112 FIELD MUSEUM OF NATURAL HISTORY-REPORTS, VOL. VII.

6 specimens fossil fish-South Strömfiord, Greenland.

Collected by Third Asiatic Expe-dition of American Museum of Natural History and Field Museum of Natural History.

Nest of 6 Dinosaur eggs—Gobi Desert, Mongolia.

Skull of Protoceratops-Gobi Desert, Mongolia. Large Dinosaur egg-Gobi Desert,

Mongolia. Skull and jaws of Titanotherium-Murun, Mongolia.

Purchases:

1 specimen stone meteorite-East Griqualand, South Africa.

1 specimen iron meteorite-near Navajo, Arizona.

1 specimen vari-colored agate-Uruguay. Group of sand-calcite crystals-Washabaugh, South Dakota.

GAINES, E. P., Chicago.

1 specimen calamite stem-Pocahontas Coal Field, West Virginia (gift).

HANSON, N. EVERETT.

1 specimen sand concretion-Turtle Lake, North Dakota (gift).

HARSTAD, A. J., Wolf Creek, Mon-

5 specimens orthoclase - Wolf Creek, Montana (gift).

specimen chalcopyrite — Wolf Creek, Montana (gift).

JACOBS, O. B., Chicago. 1 specimen fossil leaf-Mazon Creek, Illinois (gift).

1 specimen fin-spine of fossil shark -Le Grand, Iowa (exchange).

JAMES, BARRIE PIERCE, La Porte, Indiana. Part of skeleton of Phytosaur (Belodon)-St. John's, Arizona

JONIKAR, STANLEY, Chicago. 4 specimens marcasite-Chicago (gift).

(gift).

KORAL, STANLEY, Union Pier, Michigan.

specimens clay concretions-Union Pier, Michigan (gift).

McCREA, W. S. AND JAMES, W. R., Chicago.

1 specimen, body of duck preserved as adipocere-Snicarte, Illinois

MINNECI, CHRIST S., Chicago. Part of jaw and tooth of Mastodon -Bowling Green, Florida (gift). 3 specimens fish teeth-Bowling

Green, Florida (gift). MORRISON, WILLIAM, Toronto,

Canada. 1 specimen sodalite - Bancroft, Ontario, (gift)

MÜLLER, ALFRED, Friedrichshagen, Germany.

108 specimens invertebrate fossils. 1 specimen fossil vertebra of fish. 2 specimens fossil raindrops and moulds of salt crystals (exchange).

NAWN, HUGH, State of New York. 2 slabs showing fossil mollusk tracks-Gilboa, New York

(gift). O'BRIEN, GEORGE F., Cedar Rap-

ids, Iowa. 1 specimen tungsten ore (concentrates)-Ozark Mine, Silver Mountain, Missouri (gift).

1 specimen scheelite concentrates -Bishop, California (gift).

PATEE, FRED, Casper, Wyoming. 1 specimen garnet enclosed in ma trix-Casper Mountain, Wyoming (gift).

PITTS, W. B., Sunnyvale, California 3 specimens chrysoprase (1 cut)near Porterville, California (gift).

2 specimens quartz-Willard, Utal (gift).

RICHARDS BRICK COMPANY Edwardsville, Illinois. 2 briquettes-Edwardsville, Illinoi

(gift).

RINEHART, W. G., Batesville, Ar kansas. 1 specimen manganese concretion

in limestone. 8 specimens fossil shark's teeth

10 specimens brachiopods.

12 specimens manganese ore. 1 specimen copper ore.

4 specimens rock weathering-Batesville, Arkansas (gift).

Jan. 1927.

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TRISTAN, J. F., San Jose, Conta

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l specimen cristallized Lematite -Costa flica (gift).

VALCE, MIS ANTOINETTE, Chi-

1 specimen marcaule concretion (gdt).

VEECK, G. A., INC., New York 6.19 12 photographs illustrating the Agate Industry in Idar—Idar, Germany (gift).

WALLER, DE S. M., Gracias, Heroduras A melar teeth of Mastelon spi

Gracias Honduras gift.

WENDLER, C., Geneva, Switzerland.

1 specimen meteorite—Bur Ghelual, Italian Somaliland, Africa
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DEADLEY, H. E., Chicago, I tenturing Sumatra (gdt).

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HUTLER, A. L., Horsham, England, 1 humming bird. Eastern Ecuader eachange.

CARNEGIE MUSEUM, Pittaburgh, Penning various 393 fishes—Hrand, Holivia and Argentina (exchange).

CASCARD, B., Chicago 1 butterfly-Black Oak, Indiana (gilt).

CLEGG, W. G. Delamere, E. grand 6 red grouse. North Wales. g-ft. 2 gray participes. Chesture, Engter 1 vgift.

COALE, H. K., Highland Park, Illi-1 wood rat -California (gift).

procet graters - La Puerta Van

rey, Carlotte a gft

114 FIELD MUSEUM OF NATURAL HISTORY-REPORTS, VOL. VII.

- 5 pigeons-Various localities (gift).
- 2 cowbirds-Chile (gift).
- 1 loon, 1 Chinese teal (gift).
- 1 lizard—Pasadena, California, (gift).
- COLTON, A. S., Chicago. 1 beetle—Chicago (gift).
- CONOVER, H. B., Chicago.
 1 least weasel—Cherry County,
 - Nebraska (gift).

 1 horned grebe—Poplar Branch,
 North Carolina (gift).
- CRANE, RICHARD T., JR., Chicago. 3 bronze groups, with mahogany bases, of African Natives Spearing Lions (gift).
- DAWSON, CHARLES W., Muskogee, Oklahoma.
 - 1 Chesapeake terrapin—Muskogee, Oklahoma (gift).
- 1 Cumberland terrapin shell—Illinois River, Oklahoma (gift).

 DEASON, DR. W. J., Chicago.
 6 caribou, 2 Canadian woodchucks
- —Yukon Territory (gift).

 DUNLAP, MRS. F. L., Chicago.
- 1 great bird of paradise (gift).

 EIFRIG, PROF. C. W. G., River
- Forest, Illinois. 1 cicada—Bishop, Texas (gift). FELGER, JESSE L., Pheba, Missis-
 - ELGER, JESSE L., Pheba, Mississippi.
 1 snake—Pheba, Mississippi (gift).
- FIELD MUSEUM OF NATURAL
 - HISTORY.
 Collected by C. J. Albrecht (Captain
 Marshall Field Pacific Coast
 Expedition):
 - 1 gull, 1 oystercatcher, 2 cormorants—Clallam County, Washington.
 - 5 hair seals, 11 sea lions—La Push, Washington.
 7 mule deer—Kaibab National
- Forest, Arizona.

 Collected by G. K. Cherrie, Mrs.

 Marshall Field, K. P. Schmidt,
 - Marshall Field, K. P. Schmidt, C. C. Sanborn and C. Taylor (Captain Marshall Field Brazilian Expedition): 362 mammals, 648 birds, 282 rep-
 - 362 mammals, 648 birds, 282 reptiles and amphibians, 2,137 fishes, 903 invertebrates— Argentina, Braziland Paraguay.

- Collected by H. B. Conover, Robert H. Everard and John T. Zimmer (Conover-Everard African Expedition):
 - 83 mammals, 322 birds—Tanganvika Territory.
- Collected by Edmund Heller and Dr. H. H. Heller (Captain Marshall Field Central African Expedition):
- 1,170 mammals, 8 birds, 996 reptiles and amphibians, 32 fishes and 11 invertebrates—Central Africa.
- Collected by E. Liljeblad:
 - 4 butterflies, 1 moth—Edgebrook, Illinois.
- Collected by Elmer S. Riggs (Captain Marshall Field Paleontological Expedition):
- 18 mammal skulls, 1 rhea skull and 1 king vulture skull—Santa Cruz, Argentina.
- Collected by Col. Theodore Roosevelt, Kermit Roosevelt and George K. Cherrie (James Simpson-Roosevelt Asiatic Expedition):
 - 225 mammals, 552 birds, 70 reptiles and amphibians and 77 invertebrates—India and Chinese and Russian Turkestan.
- Collected by A. C. Weed and Ashley Hine (Rawson-MacMillan Subarctic Expedition):
 - 52 mammal skins and skulls, 158 birds, 28 birds' eggs, 625 fishes and 931 invertebrates—Maine, Nova Scotia, Newfoundland, Labrador and Greenland.
- Collected by Third Asiatic Expedition (American Museum of Natural History):
 - ural History): 394 mammals, 249 fishes—China and Mongolia.
- Collected by A. B. Wolcott and Earl G. Wright (N. W. Harris Public School Extension of Field Museum of Natural History):
 - 6 insects—Hessville, Indiana. 1 red-tailed hawk—Delavan, Wisconsin.

Purchases:

- 1.482 birds—Argentina.
- 1 snowy owl—Edmonton, Alberta.
 9 frogs, 1 turtle—Gainesville, Florida.
- 88 birds—Germany, Hungary, Spain and Asia Minor.

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- MUSEUM OF ZOOLOGY, Norman, Oklahoma.
 - 2 turtles, 1 toad, 1 snake—Cleveland County, Oklahoma (exchange).
 - turtles—Okmulgee, Oklahoma (exchange).
 lizards—Strong City, Oklahoma
- (exchange).
- NARBO, DR. SVEN, Sandnes, Norway. 22 birds' eggs, 15 butterflies, 80
- (gift).
 NEVILLE, RUSSELL T., Kewanee,
 - Illinois.

 1 cave crawfish—Near Mammoth
 Cave, Kentucky (gift).

moths-Sandnes, Norway

- DADEC O CLI
- PARKS, O., Chicago.
 5 salamanders, 8 frogs, 2 turtles—
 Illinois and Indiana (gift).
- 1 lizard—Sacaton, Arizona (gift).
- PATTERSON, COL. J. H., London, England. 1 English woodcock (gift).
- PING, PROF. C., Amoy, China. 21 frogs, 13 snakes, 4 lizards— China (gift).
- PRAY, L. L., Homewood, Illinois.

 1 snake—Homewood, Illinois (gift).

 5 squirrel lice—Highland Park, Illinois (gift).
- PSOTA, DR. F. J., Chicago. 15 flies—Ceylon (gift).
 - 8 butterflies, 118 moths—Venezuela (gift).
- RIDGWAY ORNITHOLOGICAL CLUB, Highland Park, Illinois. 1 framed picture of Robert Ridgway (gift).
- ROBINSON, R. P., Merrimac, Massachusetts.
 - 8 insects—Bustin's Island, Maine (gift).
- ROOSEVELT, COL. THEODORE, Oyster Bay, Long Island. 1 blackbuck—India (gift).
- RYMAL, WILLIAM H., New Buffalo, Michigan.
 - 4 insects—New Buffalo, Michigan (gift).

- SANBORN, C. C., Highland Park, Illinois.
 - 1 gray squirrel—Highland Park, Illinois (gift).
- SASKO, V. G., Chicago. 1 butterfly—Formosa (gift).
- SCHMIDT, F. J. W., Platteville,
 - Wisconsin.
 4 mammals, 51 frogs, 11 snakes, 1 turtle—Platteville, Wisconsin (gift).
- SCHMIDT, KARL P., Homewood,
- 12 snakes—Kansas (gift).

 SETON, MRS. GRACE THOMPSON, Greenwich, Connecticut.
 10 mammal skins and skulls, 2
 birds, 1 turtle shell—Ybapobo,
 Paraguay (gift).
- SIMONS, MRS. C. B., Chicago. 4 shells (gift).
- STONE, D. D., Casa Grande, Arizona.
 23 mammals—Casa Grande, Ari-
- zona (gift).

 THOMPSON, GEORGE, Chicago.

 1 ferret, 4 insects—Chicago (gift)
- TOLSON MEMORIAL MUSEUM Huddersfield, England. 4 birds—England (exchange).
- VAN HYNING, DR. T., Gainesville Florida. 79 snakes—Florida (gift).
- WALTERS, L. L., Homewood, Illinois 5 mammal skins and skulls—Montana (gift).
- WEED, A. C., Chicago. 281 insects and millipedes—Illinois and New York (gift).
- WELD, DR. LEWIS H., Washington D. C. 221 gall-flies and galls—Various localities (gift).
- WELLS, A. G., Chicago. 17 desert tortoises—Hinkley and Needles, California (gift).
- WOLCOTT, A. B., Downer's Grove Illinois.
 - 8 insects—Illinois (gift).







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JAN. 1927.

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118 Field Museum of Natural History—Reports, Vol. VII.

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don. Royal Horticultural Society, London.

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122 FIELD MUSEUM OF NATURAL HISTORY—REPORTS, VOL. VII.

Nederlandsch Vogelkundigen Club. Leiden. Rijks Ethnographisch Museum, Lei-

den.

Rijks Herbarium, Leiden. Rijks Hoogers Land-Tuin-en Bosch-

bousschool, Wageningen. Rijks Museum van Natuurlijke His-

torie, Leiden. Rijks Universiteit, Leiden. Universiteit van Amsterdam.

NEW ZEALAND:

Auckland Institute and Museum. Wellington Canterbury Museum, Christchurch.

Department of Agriculture, Wellington. Department of Mines, Wellington.

Dominion Museum, Wellington. Geological Survey, Wellington. New Zealand Board of Science and Art, Wellington.

NORWAY:

Bergen Museum Ethnographical Museum of Oslo,

Geologiske Underskolse. Norges Oslo. Physiographiske Forening, Oslo.

Tromso Museum. Zoologiske Museum, Oslo.

PALESTINE:

Institute of Agriculture and Natural History, Tel-Aviv.

PERU:

Instituto Historico del Peru, Lima. Revista del Archivo Nacional, Lima.

POLAND:

Académie Polonaise des Sciences et des Amis, Cracow.

Instytut nauk Antropologicznych Towarzystwa Naukowego Warszawskiego, Warsaw.

Musei Polonici Historiae Naturalis, Warsaw.

Societas Scientiarum Varsaviensis, Warsaw.

Société Botanique de Pologne, Warsaw.

Wyźszej Szkoly Handlowej Biblioteke, Warsaw.

PORTUGAL:

Agencia Geral das Colonias, Lisbon. Biblioteca Nacional, Lisbon. Universidade de Coimbra, Museu Zoologico.

Universidade de Lisboa, Lisbon.

ROUMANIA: Université de Jassy.

RUSSIA:

Académie des Sciences, Leningrad. Botanical Garden, Leningrad. Eesti Rahva Museum, Tartus.

Institute of Economic Mineralogy

and Petrography, Moscow. Musée d'Etat de la Région Indus-trielle Centrale, Moscow. Musée de Georgie, Tiflis.

Musée Géologique et Minéralogique Pierre le Grand, Leningrad. Russian Zoological Journal, Moscow.

Société des Amis des Sciences Naturelles, d'Anthropologie et d'Ethnographie, Moscow. Société des Naturalistes, Leningrad.

SPAIN:

Institució Catalana d'Historia Natural, Barcelona. Junta de Ciencies Naturals, Barce-

lona Junta para Amplicación de Estudios e Investigaciones Científicas, Madrid.

R. Academia de Ciencias y Artes, Barcelona.

R. Academia de Ciencias Exactas. Fisicas y Naturales, Madrid. Sociedad Española de Historia Natural, Madrid.

SWEDEN:

Botanika Göteborgs Trädgard, Gothenburg.

K. Biblioteket, Stockholm. K. Humanistiska Vetenskapssam-

fundet, Lund. K. Svenska Vetenskapsakademien, Stockholm.

K. Vitterhets Historie och Antikvitets Akademien, Stockholm. Lunds Universitet, Lund.

SWITZERLAND:

Botanischer Garten, Bern. Botanisches Museum, Zürich. Conservatoire et Jardin Botaniques, Geneva

Musées d'Histoire Naturelle, Lausanne.

Naturforschende Gesellschaft, Ba-Naturforschende Gesellschaft, Zü-

Naturhistorisches Museum, Basel.

Société Botanique, Geneva. Société de Physique et d'Histoire Naturelle, Geneva.

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124 FIELD MUSEUM OF NATURAL HISTORY-REPORTS, Vol. VII.

State Board of Fisheries and Game, Hartford.

State Geological and Natural History Survey, Hartford. Storrs Agricultural Experiment Sta-

tion. Yale University, New Haven.

FLORIDA:

State Geological Survey, Tallahas-

GEORGIA:

Geological Survey, Atlanta.

HAWAII:

Agricultural Experiment Station, Honolulu. Bernice Pauahi Bishop Museum,

Honolulu. Board of Commissioners of Agricul-

ture and Forestry, Honolulu. Hawaiian Entomological Society,

Honolulu. Hawaiian Historical Society, Honolulu.

Hawaiian Sugar Planters' Association, Honolulu. University of Hawaii, Honolulu.

IDAHO:

Mining Industry, Boise. Idaho University, Moscow. State Historical Society of Idaho, Boise.

ILLINOIS:

Agricultural Experiment Station. Urbana. Art Institute of Chicago. Audubon Society, Chicago. Board of Education, Chicago. Chicago Historical Society. Chicago Public Library Department of Public Works and Building, Chicago. Division of Natural History Survey, Urbana. Forestry Service, Urbana. Geographic Society, Chicago.

Hardwood Record, Chicago (gift). Izaak Walton League of America, Chicago (gift).

John Crerar Library, Chicago. Newberry Library, Chicago. Northwestern University, Evanston. Open Court Publishing Company, Chicago.

State Academy of Science, Spring-State Board of Agriculture, Spring-

State Geological Survey, Springfield.

State Historical Library, Springfield. State Water Survey, Springfield. University of Chicago University of Illinois, Urbana.

INDIANA:

Academy of Science, Indianapolis. Department of Conservation, Indianapolis. Indiana University, Bloomington. John Herron Art Institute, Indianapolis

Purdue University, Lafayette. State Board of Forestry, Indianapolis.

University of Notre Dame.

IOWA:

Academy of Science, Des Moines. Historical, Memorial and Art Department, Des Moines. Iowa Geological Survey, Des Moines.

Iowa Horticultural Society, Des Moines Iowa State College, Ames.

University of Iowa, Iowa City.

KANSAS:

Agricultural Experiment Station, Manhattan. State Board of Agriculture, Topeka. State Geological Survey, Lawrence. State Historical Society, Topeka. University of Kansas, Lawrence.

KENTUCKY: Agricultural Experiment Station, Louisville. Kentucky Geological Survey, Frankfort.

LOUISIANA:

Agricultural Experiment Station, Baton Rouge Department of Conservation, Baton Rouge. Isaac Delgado Museum, New Orleans.

MAINE:

Agricultural Experiment Station, Orono. Bowdoin College, Brunswick, Portland Public Library.

MARYLAND:

Agricultural Experiment Station, College Park Enoch Pratt Free Library, Baltimore. Johns Hopkins University, Baltimore.



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Garden Club of America, New York. Inter-American Magazine, New York (cift)

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Museum of the American Indian, New York. New York Academy of Sciences.

New York Academy of Sciences. New York Botanical Garden, New York. New York Historical Society, New

York.
Pratt Institute, New York.
Public Library, New York.
Rochester Academy of Science.
Rochester Municipal Museum.
Rockefeller Foundation, New York.
State College of Forestry, Syracuse.
State Library, Albany.
State Museum, Albany.

Staten Island Institute of Arts and Sciences, New York. Stone Publishing Company, New

York.
University of the State of New York, Albany.

Vassar College, Poughkeepsie. Zoological Society, New York. Long Sang Ti Curio Company, New York (gift.)

NORTH CAROLINA: Duke University, Durham. Elisha Mitchell Scientific Society,

Chapel Hill.

NORTH DAKOTA:
Biological Station, University Sta-

Geological Survey, University Station.

University of North Dakota, University.

OHIO:

Agricultural Experiment Station, Wooster. Cincinnati Museums Association. Cincinnati Society of Natural His-

tory. Cleveland Museum of Art. Cleveland Museum of Natural His-

Cleveland Public Library.
Denison University, Granville.
Geological Survey, Columbus.
Ohio Academy of Science, Columbus.

Onio Academy of Science, Columbus. State Archaeological and Historical Society, Columbus. State University, Columbus.

University of Cincinnati. Wilson Ornithological Club, Oberlin. OKLAHOMA:

Oklahoma Academy of Science, Norman. Oklahoma Geological Survey, Nor-

University of Oklahoma, Norman.

OREGON:

Agricultural Experiment Station,
Corvallis.
University of Oregon, Eugene.

PENNSYLVANIA:

Academy of Natural Sciences, Philadelphia.

American Philosophical Society,

Philadelphia.

Bryn Mawr College.

Bureau of Topographical and Geological Survey, Harrisburg. Carnegie Institute, Pittsburgh. Carnegie Library, Pittsburgh. Carnegie Museum, Pittsburgh. Dropsie College, Philadelphia. Engineers' Society of Western Penn-

nginees society of western sylvania, Pittsburgh.
Franklin Institute, Philadelphia.
Lehigh University, Bethlehem.
Pennsylvania Museum and School of Industrial Art, Philadelphia.
Philadelphia Combercial Museum.
Sullivant Moss Society, Pittsburgh.
University of Pennsylvania, Philadelphia

delphia.
University of Pennsylvania, Museum, Philadelphia.
Wagner Free Institute of Science,
Philadelphia.

Wistar Institute of Anatomy and Biology, Philadelphia.

PHILIPPINE ISLANDS: Bureau of Education, Manila. Department of Agriculture, Manila.

Department of Agriculture and Natural Resources, Manila. Department of Interior, Bureau of Science, Manila.

SOUTH CAROLINA: Charleston Museum.

SOUTH DAKOTA:
Agricultural Experiment Station,
Brookings.
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TENNESSEE:
Academy of Science, Nashville.
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130 FIELD MUSEUM OF NATURAL HISTORY-REPORTS, VOL. VII.

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Flizsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peek, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Reterson, A. Fonbes, James W. Black, Jun. P. Reterson, J. J. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS SS.

[SEAL]

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL, Notary Public, Cook County, Ill.

CHANGE OF NAME

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June. 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filled June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE OF NAME

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

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ARTICLE I

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SECTION 9. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of twenty-five dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the member to free admission for the member and family to the Museum on any day, the Annual Report and such other Museum documents or publications as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such member shall be entitled to become an Associate Member.

Section 10. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and when shall pay an annual see of sensitive and a Trustees at any of its meetings, and when shall pay an annual sensitive and a shall pay an annual sensitive and a shall be a distincted, including tickets for any lectures given under the auspices of any of the Museums a during a visit to the courtes of the membership pitclets shall be maintained, including tickets for any lectures given under the auspices of any of the Museums during a visit to the cities in which the cooperative museums are located.

SECTION 11. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of each month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

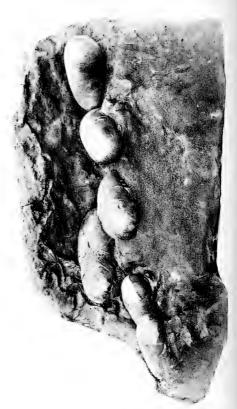
HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, those Trustees who by reason of inability, on account of change of residence, or for other cause or from indisposition to serve longer in such capacity shall resign their place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honoray Trustee for life. Such Honoray Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.



Field Museum of Natural History





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Curator, subject to the authority of the Director. The Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific departments shall be appointed and removed by the Director upon the recommendation of the Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension and Executive,

SECTION 2. The Finance Committee shall consist of five members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vicechairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

Section 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regular elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other permanent funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to invest, sell. and reinvest funds, subject to the approval of the Board.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

Section 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested Jan 1927

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AYER, EDWARD E. BUCKINGHAM, MISS KATE S.

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SARGENT, HOMER E. STRAWN, SILAS H.

WHITE, HOWARD J.

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Lower Cambrian Horizon
Middle Granville, New York
One-third natural size

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Nemit, Miss Carair, Elacis,
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to an art and b Distriction Cal. Stands C. District Street St. Horses, Its I tomi. F Hook, America 1 House, Mine I was a M. Horatas, Mas Paus su B Park W. W. Blisch, Abdel, 81 resident less to a second and a second I see an Exercise 1 5 9 1 1 - 1 - 5 - 1 Escent en voi L. sware Prince In real Williams E. House to Mars Hann, T.F. H : Stell Jewis 1 li man. It set A Home Man Fanns J Home Innon M. Heatif, Attent 5 Howar, Havan W. H wir Mins Man's A Hart leads (H 17, N L Ja Harr WHEREM M. 11 HEISTERED LI, DE STEFAS He reame, H. J. HUDDARD, WILLIAM C. Hoppell, William J. HOME, CARL M. Houses, Mas. E. H. House, House Hast I W. san ... H Houses Mas CHARLESS PRATT Hotel Invited W. Hote, Rosent W. Hottm oner, Da Pat L HUMISTON, DR CHARLES E. HI NUMBERORD, Lot in S. HANT W PALS OTT, JR Honore Passent a Hunn, Hanny li Henry Man H Human, lowant & , Ja Hentas, Hen Timetus 1: Hermann, Joan W. Hormon Mar C L Horren, Rosent 1. HEATT SICERT P. Hanna lunnett loser to num f IN LEASE, HARRIES S. Incances, hawned

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Sciences, Michigan B. N. S. S. V. C. S. S. S. C. Lucio raz 1 Book Mar Mar 5 on Louis la loui W I. Jan tinna . A hour I seed 1. BAIL ! SIDE ! IL MENER M. B. D. I, sensa w Mar 1 w. . . It reverse. Her var Londonia M. J. Lorenttia Insun II herotica. Mane b Loratic Sames in Ross Inc. Court K l. or loring (has William A Ja-L to Anto a J l. to linear L. Steam Insurance . Lines. Mas Fr as 1. L o Im Asterna Lin orn Miss Bantira home, Jones to HURTTINGE J (Brunian, Dr. William 1. LIAN IN MAN (

SABATH HIN JOSEPH NAUL MED WILLIAM Sattist, Its To Man I SAMPS S. H J SATTERISE, H. WARD I Sat am, Ita Lance W. NATES IN BASE OF 2 NATIEMAN, JUHN A. SAWIER I'm t 2 DAWTER Min Paul beneat Dansan ! Schargen Its Its. ". SHAFFSON Antorn L. SCHANGE OF M. SPREADOR A 1 "wamer for re-Semint In Change 1 NEW . T. I'm Berrett J. SHMLET, I B. OTT. L. mmmer, Part J. Semment La manuel WENELLER, DENJAMIN B Senemes, Green A to enceen. Income N BNEEDOW OFFI 1 Name of the State of the State

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