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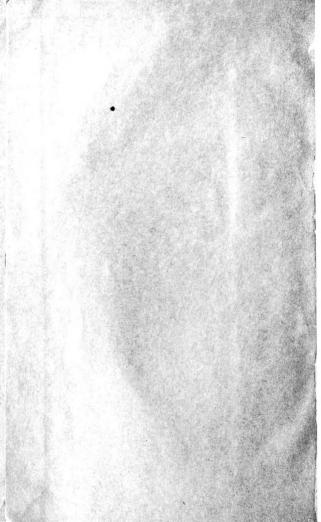
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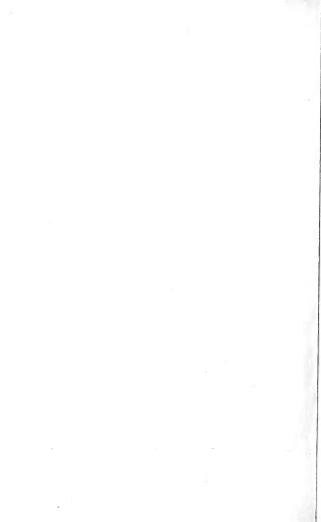
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PUBLICATIONS

FIELD MUSEUM OF NATURAL HISTORY

REPORT SERIES VOLUME VII



CHICAGO, U. S. A. 1926-1928



THE LATE DAVID C. DAVIES
Director of the Museum from December 19, 1921 to July 14, 1928, the date of his death

FIELD MUSEUM OF NATURAL HISTORY

FIGURESIST BY MARSHALL FIELD, 1991

PUBLICATION 256

REPORT SERIES

Vot., VII, No. 3

ANNUAL REPORT OF THE DIRECTOR

TO THE

BOARD OF TRUSTEES

FOR THE YEAR 1928

MAY 1 3 1929

NATURAL WINNERSITY OF ILLINOIS

CHICAGO

CHICAGO, U. S. A. January, 1929

BLQUESTS

Bequests to Field Museum of Natural History may be made in securities, money, besiss or collections. They may, if desired, take the form of a memorial to the memory of a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Field Museum of Natural History of the City of Chicago, State of Illinois.

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DAVID CHARLES DAVIES

June 10, 1466 July 14 1914 Desired Director December 19 190.

During the year under review the Museum sustained a very serious less through the death of its Director, David Charles Davies, of ah too, place, after an illness of several months, at his residence on July 14, 1928.

Mr. Davies entered the service of the Museum in 1894 as Aunthor. He was successively Recorder, Assistant Secretary and Secretary, succeeding to the Directorality of the Museum in 1921 at the death of Dr. Frederick J. V. Saul, the Museum is first Director.

Throughout his many years of connection with the Museum, Mr. Davies performed his services with judgment and ability and always sought the Museum's best interests.

Chasen to the position of Director by virtue of his administrative abouty and profound knowledge of the needs and aims of the institution, Mr. Davies carried on the Museum's work to new objectives and enlarged its fields of usefulness. He did his full share in helping to build up the Museum to the position it now occupies.

On July 16, 1928, the Board of Trustees adopted the following resolution in tribute to the memory of Mr. Davies

"The Trustees of Field Museum of Natural History desire to express and record their deep sorrow at the loss which they and the mutation have sustained by the death on July 14, 1925, of their fellow Trustee, Secretary of the Board, and Director of the Museum, David Charles Davies

"Mr Davies' connection with the Museum dated shortly after it inception and continued to the time of his death, during which period be elected a beneficient influence on its activities, and devoted himself to de interest with success and fold do.

"As a member of the Board, his fellow Trustees placed great reliance on Mr. Davies" judgment and knowledge of the needs of the matitution and the best methods of promoting its progress.

"Mr. Davies" very able administration of his floaty and varied duties won the highest respect and exteen, of the Board of Trusteen

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

His unselfish labors on behalf of the Museum will bear fruit for many years to come.

"The Board of Trustees desires to have this expression of their appreciation of Mr. Davies' work and character spread upon the records of the institution and a duly attested copy thereof sent to the members of his bereaved family.

"STEPHEN C. SIMMS, Acting Secretary

STANLEY FIELD, President"

ANALAI REPORT OF THE DERICTOR

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The Me I frasteen of the A Masseut of Statutan Historia

I have the heart to present a report of the operators of the Museum for the year enting Describer al, 1925

There is much cause for statisfactors in the act elements of the Museum during the tweive months to be herewith research. For the sees of time after hance has excessed one manner. The marrier stop of the Massam has shown a healthy growth which stell-alein greatly attrocated and attroval by the public of the motit. to als activities. Extensive permanent improvements have been made in the Museum building, especially notable among their being the installation of cambuts in six large new exhibition had on the ground floor, which were opened to the public in June 15. estimational work the Museum has maintained its proud record of past hears, has not had therefore expeditions in operation in widely scattered parts of the world during 1925. The Museum has been the resignent activities for both a fully and children have kept pace with the costantly growing demand on the part of the puters for so . cultural city rightles. Throughout the world attention has been focused through the pression the activities of the Museum, beginency the interputational prestige which the institution has always et, and sit was estat adment

The number of various father Mass are district 1928 was 1 02 025. When the long and frequent periods of array out is at the season of a consistent with the easily as executive a contract to act, the fact provided district 1928 are have not one as results a beginning at the fact basis 1927 there was one district the fill when a special event in Social Ladd brought 100,14 anders to the Mass and will be seen that the 1928 after the expression fact that of the presenting year, 1 041546. The decrease 19040, is less than 2 per cent, as the same that same that same that for his the stage exact that does not be the expression and the fact that was a few that each of the stage was the contract of the Societ Ladd during 1925 after the dress companies of accusts in Societ Ladd during 1925 after the dress companies of accusts the Massach for the

Herewet expressions of gratificie in 1 appreciation are due to the main trace expressed their post will toward and information

the Museum through contributions in the form of memberships. The Museum now has on its rolls more than 5,000 Members—the exact figures by classifications, and a complete list of the names, are to be found in other sections of this Report.

The increase in the number of such contributors may well be considered as an indication of widening public approval and appreciation of the Museum and its mission. Each person registered on the rolls, through all the membership classes from Benefactors to Annual Members, is entitled to recognition as a public-spirited citizen who by his contribution is supporting a great educational work. Every one of these Members is helping the Museum to maintain and expand its activities in the fields of scientific research and dissemination of knowledge, and without their aid the institution's work would be seriously curtailed. The Museum is happy to acknowledge this support, and it is indeed a great satisfaction to note the continuing growth of the membership lists.

In recognition of the very valuable and eminent service rendered the Museum by Mr. William V. Kelley, the Trustees have elected him as a Benefactor, and they have named Hall 17 (which is to be devoted to Asiatic mammals, some groups of which have already been installed) "William V. Kelley Hall."

During 1928 the Trustees also elected Mrs. Emily Crane Chadbourne and Mrs. William H. Moore as Patrons of the Museum because of their generous help to and interest in the institution.

The following were elected Life Members: Mr. George E. Brannon, Mr. Reuben G. Chandler, Mr. Russell Tyson, Mr. R. Douglas Stuart, Mr. Alfred E. Hamill, Mr. Homer L. Dixon, Mrs. Harold E. Leopold, Mr. Edward J. Ryerson, Mr. Arthur Reynolds, Mrs. Watson F. Blair, Mr. Frank A. Hecht, Jr., Mr. Edward N. Hurley, Mr. John Jay Abbott, Mr. John Griffiths, Mr. Moise Dryfus, and Mr. Robert A. Gardner.

Prominent among the many important activities undertaken during 1928 was the completion and opening to the public of six large new exhibition halls in the Department of Anthropology. These halls were opened in June, and are the first six to be completed of a total of fourteen which are being added to the exhibition space through extensive reconstruction of the Museum's ground floor. This project has been made possible through the generosity of President Stanley Field.

The six new halls opened in 1928 contain new collections illustrating the ethnology of Africa and Madagascar (the latter being

the results of the Captain Marshal Field Authorophogosal Expedition to Madagassar in 1995 27 and probably the world's first consequence of the control and balso are appelland except and resistanted control representing the cities prof. Progressa Melanessa Malay Pentingua, Malay Archipelago, Progressa Melanessa Malay Pentingua, Malay Archipelago, Progressa Melanessa Malay Pentingua, and Except and Experimental Experimental Experimental Experimental Experimental Control of the Action of the Action of the Archipelago (the Action table associate to 1880) and archipelago (the Action table associate to 1880).

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Among other important new excitors instanted during 1938 are the following indicate groups of the Oris policer Marco Polo storogan 1 — annulayan or Anator their, compassed of articles obtained to Colonge Theodore Resourced and Mr. Kermut Konso red, while they were leading the James Sor poor. Resource to Anator Experiment for Field Maseum in 1275-126, a group of their monotone is some of the specificant of the article for a group of their monotone is some of the specificant of the rate at the first state at the Lart A. With a specificate for a factor of the charge every field of the rate of the charge every field of the rate of the charge every field of the rate of the charge every field of the factor and properly of the distribution of grander beautificate. Field of the Anaton and prompt of the distribution of grander beautificate which is a first value of the state of the Maseum properties for maker of the Mallor Feeding and a prompt of the distribution of the factor of the state of the Maseum, declared in the expectate of the Report.

Several innovations which have proved very helpful to visitors were made during 1928. An effective and much needed directory service giving the numbers and locations of halls was inaugurated by placing framed printed placards near the entrances of the Museum, and at the head and foot of each stairway. To further serve the visitors, there were installed at either side of the main entrance other large printed and framed placards giving useful information concerning the Museum. Also, at the entrance to each exhibition hall framed and printed placards were placed, giving the number and designating the contents of the hall. On the walls in prominent places on the ground and first floors attractive frames were installed. which may be quickly and easily opened for the changing of timely announcements. These are used for the display of posters advertising the Museum's lecture courses for adults, the Raymond Fund entertainments for children, the monthly schedules of guide-lecture tours. bulletins calling attention to new exhibits, and other announcements.

The Museum had thirteen expeditions in the field during the year. Several of these did not begin operations until the last quarter, and they are expected to continue their work through all or most of 1929. Following is a brief summary of the year's expeditions:

The William V. Kellev-Roosevelts Expedition to Eastern Asia. to make zoological collections in remote parts of French Indo-China, and to explore certain unknown territory lying northward of Indo-China along the gorges of the Mekong River, set out in two contingents late in the year. Colonel Theodore Roosevelt and Mr. Kermit Roosevelt are the leaders, and Mr. William V. Kelley is sponsor. One contingent led by the Roosevelts themselves, left the United States November 10; the other, led by Mr. Harold J. Coolidge, Jr., of Boston, sailed December 22. After completing their separate objects and covering their separate territory, the two parties will unite in Indo-China for further work together. Among other members of the expedition are Mr. Suydam Cutting of New York; Dr. Josselyn Van Tyne, Assistant Curator of Birds of the Museum of Zoology of the University of Michigan; Dr. Ralph E. Wheeler of Cambridge, Massachusetts; Mr. Russell W. Hendee of Brooklyn, New York, and Mr. Herbert Stevens of London, England.

Mr. Cornelius Crane is sponsor and leader of the Crane Pacific Expedition which will circumnavigate the Pacific Ocean and collect land and marine zoological specimens. The voyage is being made on his yacht, the *Illyria*. Mr. Karl P. Schmidt, Assistant Curator of



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The Exist Massim Confirst Course to Exist Exist in the Month potation in a picted data attitissas in flut date in the countries of the site of the are end to office a great the art after the end The sease one either and ferrifice of the court of et ers in a sensing of the prestine a life custern Rat Large series of the two per of Harriages and the Fast's Continued the commentary take two agrees. Material estimated the season a estimated to care has a to because, foreign, and By Asia at perely to excit at that we presented remains of a two-wheeled chariot, which are believed to be the oldest relics of their kind ever excavated, are numbered among the most important finds.

Human and animal skeletal material, important for the light they throw upon the life of the ancient city, have also been unearthed. The expedition will continue its operations in 1929. Captain Marshall Field is sponsor of the expedition for Field Museum, and Mr. Herbert Weld is its sponsor for Oxford. Professor Stephen Langdon of Oxford, is director of the expedition; Mr. L. S. Watelin is in charge of excavations; and Mr. Henry Field, Assistant Curator of Physical Anthropology at Field Museum, was one of the principal collectors during the season of 1928.

The Captain Marshall Field Anthropological Expedition to Europe did not return to the United States until 1928, although its work of collecting material bearing upon prehistoric man, for use in a proposed Hall of Prehistoric Man in the Museum, was completed in 1927. Assistant Curator Henry Field was leader. The two Captain Marshall Field North Arabian Desert Expeditions, the first of which ended late in 1927, and the second of which worked in the spring of 1928, were also under the leadership of Assistant Curator Field, and they made an extensive archeological survey of part of the North Arabian or Syrian Desert lying between the Damascus-Maan railroad and Bagdad. The expeditions covered some 6,000 miles, discovered several hundred open-air prehistoric sites, and obtained important specimens and data.

Two Captain Marshall Field Archaeological Expeditions to British Honduras under the leadership of Mr. J. Eric Thompson, Assistant Curator of Central and South American Archaeology at the Museum, conducted operations in 1928. The first, which had begun its work in the latter part of 1927, concluded operations in 1928. The second expedition departed in December to continue the researches into ancient Maya civilization begun by the first expedition, which discovered the sites of three buried cities. In addition to the archaeological work, ethnological studies are to be made, and Maya artifacts are to be collected.

The Museum obtained a collection of woods, including some rare ones, and herbaceous material from Panama, as the result of a joint expedition of Field Museum, Yale University, the New York Botanical Garden and the United Fruit Company. Captain Marshall Field was sponsor for the Museum. Mr. George Proctor Cooper of Los Angeles was the collector.

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Mr. William V. Kelley made a gift of \$100,000 to defray the expenses of the William V. Kelley-Roosevelts Expedition to Eastern Asia for Field Museum.

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Mr. French R. Grutter, pare the equal (\$2,080 why the presents On fital pare entire that it had not \$12 years to the Museum

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Mrs. Anna Louise Raymond made a further contribution of \$2,000 for the work of the James Nelson and Anna Louise Raymond Public School and Children's Lecture Division, which was established in 1925 on an endowment of \$500,000 provided by her, and which has been the recipient of other generous contributions she has made.

For the purchase of the Herbert Devine Jade Collection the following contributions were made: from Mr. Martin A. Ryerson, \$1,000; from Miss Kate S. Buckingham, \$1,000; from Mrs. George T. Smith, \$1,000; from Mr. John Jay Abbott, \$100, and from Mr. Charles B. Goodsneed, \$100.

Mr. Henry J. Patten donated \$1,000 to be used in financing archaeological work.

Mr. William J. Chalmers continued his contributions as in past years by giving \$435 for the purchase of specimens of minerals for the William J. Chalmers Crystal Collection.

Mrs. Chauncey B. Borland gave \$150 for the purchase of a petrified turtle with ancient Chinese inscriptions.

The American Friends of China contributed \$475 as their annual gift for the development of the Chinese section of the anthropological collections.

Mr. Henry M. Wolf gave \$250 towards the purchase of a ceremonial Chinese robe from the Herbert J. Devine Collection.

The estate of the late George F. Porter paid the Museum a legacy of \$25,000, and the estate of the late Arthur B. Jones paid a legacy of \$2,000.

The South Park Commissioners turned over to the Museum \$212,637.59 derived from the tax levy authorized for this purpose by the State Legislature.

The great amount of material for the collections of the Museum received as gifts is a cause of satisfaction, because it indicates that the Museum has a large number of friends who take an active interest in its growth and development. Details of the acquisitions of the year are given in the departmental sections of this Report, and in the list of Accessions beginning on page 513. Among noteworthy gifts were two specimens of red deer, given by Lord Astor of London, England, a beautifully cut rose quartz bowl given by Mr. Richard T. Crane, Jr., and a collection of 3,240 specimens of minerals given by Mrs. Charles M. Higginson. The red deer are from Lord Astor's hunting preserves on the island of Jura off the coast of Scotland, and they have been made into an attractive exhibit



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where, including radio talks; and a great amount of public service has been rendered by the Staff in answering the many inquiries which come in on various subjects within the scope of the Museum.

An important publication issued by the Museum during 1928 is The Prehistory of Aviation by Dr. Berthold Laufer, Curator of Anthropology. Because of the prominent place aeronautics hold in public interest at present this publication proved extremely timely.

Important from the scientific standpoint was the discovery. during the year, of a new type of crocodile from New Guinea by Mr. Karl P. Schmidt, Assistant Curator of Reptiles. The species. described in a Museum publication issued recently, was discovered by Mr. Schmidt through work on some crocodile skulls which had been transferred to the Department of Zoology from the Department of Anthropology, which had received them with an ethnological collection.

The discovery also of a new genus of Abyssinian aquatic rodents by Dr. Wilfred H. Osgood, Curator of Zoology, who led the Field Museum-Chicago Daily News Abyssinian Expedition, is the subject of another publication issued during the year.

The various Divisions of the Museum-Raymond Division. Public Relations, Library, Printing, Photography, Roentgenology, Illustration and Memberships-as well as the Departments have all made notable progress during 1928. The details of their work appear elsewhere in this Report.

All educational activities of the Museum were continued in 1928, some of them, particularly those dealing with children, on a larger scale than theretofore. Every effort has been made to increase the use of the Museum and establish the most friendly relationships between the institution and the public, both adults and children. The usual spring and autumn courses of free illustrated lectures on science and travel by eminent explorers and scientists, were given in the James Simpson Theatre of the Museum, and the response on the part of the public has been most gratifying. Special series of lectures for Members were also given. All seats in the Theatre were lettered and numbered, and this has simplified the reserving of seats and aids greatly in ushering the holders of them.

As in past years traveling cases containing natural history and economic exhibits were circulated among the schools of Chicago by the N. W. Harris Public School Extension Department of the Museum. The number of cases used and the number of schools and other centers served has continued to increase as in past years.

JAN. 1929

Throughout the school year lecturers with lantern abdes were seed out to the school by the James Nesson and Anna Louise Raymond Public School and Children's Lecture Division of the Museum. Also where the auti-sees of this Division the usual spring and autumn series of free shappers of the surpless of the school action of the division the particles are given in the James so the second section of the summer and winter seasons.

The country werk conducted for children by the Museum trough the N. W. Harris Public School Futension Department and the Liven School and Louise Raymond Public School and Course Raymond Public School and the school of a pamphlet, if I Museum and the Line Livenship in the for distribution to school otherals, principals, tenchers, and others between

Common the bound of the Mosey before the position is well as There is the first whereby subjects are charged and instead of manching as different soles for the transition of the first soles for the pulsar and first soles for the pulsar and first soles for the first

The pub is has been reached further by lie tures given over the radio, some his speakers assigned by the Museum, and others by outsile tails speakers interested in this institution.

The Library of the Museum performed calculate service to the persons public as well as to scientists and students and because of the important occurrence of reference works on total and tastery altered at a calculation and carried on

The Museum suffered two sets us bases by the deaths during 1925 of Mr. David C. Davies, Director and member of the Board of

Trustees, and Mr. Watson F. Blair, Second Vice-President and member of the Board of Trustees.

An obituary of Mr. Davies appears at the beginning of this Report (page 387).

Mr. Blair died on February 7, 1928. He had been a Trustee of the Museum since 1894. In 1909 he was elected Second Vice-President and held that office until his death. He was also a Patron, a Corporate Member and a Life Member of the Museum. The following tribute was paid to his memory by the Board of Trustees in a resolution adopted on May 21:

"The death of Mr. Watson F. Blair having been announced at the monthly meeting of the Board of Trustees of Field Museum of Natural History, held May 21, 1928, the following resolution was adopted as a testimonial of his unselfish labors in behalf of the institution:

"The Trustees of Field Museum of Natural History have learned with profound regret of the decease of their fellow Trustee, Watson F. Blair, February 7, 1928.

"The closing of the life of Mr. Blair removes from the Board one of its oldest members. He had served as a member of the Board of Trustees and of its Finance Committee since the incorporation of the Museum. In 1907 he accepted the Chairmanship of the Finance Committee and a membership on the Executive Committee, and in 1909 he was elected Second Vice-President of the Corporation. As a member of these Committees, and as an Officer of the Board, he performed his exacting duties with unfailing interest, ability and devotion until the time of his death, although they involved, especially in the earlier years, a considerable sacrifice of his time.

"He was in the fullest accord with the purposes of the Museum, and was always deeply concerned in its progress and welfare.

"The Trustees extend to the members of Mr. Blair's bereaved family their sincere sympathy; and in token thereof have unanimously adopted the foregoing testimonial and ordered it to be spread upon the records of the Board, and a copy of same to be properly attested and presented to the family of the late Watson F. Blair."

On July 16 the Board of Trustees elected the present incumbent, Stephen C. Simms, formerly Curator of the N. W. Harris Public School Extension Department, as Director, and also as a member of the Board of Trustees, to fill the vacancies caused by Mr. Davies' death. The new Director also became a Corporate Member, and was elected Secretary of the Museum, which office had likewise been held by Director Davies.

At the end of 1928, Mr. Harry E. Byram resigned from the Board of Trustees because if the stage if the contribution of the Sew York City. His resignation was a region with terms.

At the December meeting of the Board of Trustees Mr. Fred W. Sargent and Mr. Samuel Insuil, Jr., were mominated to fill the vacances on the Board caused by the death of Mr. Blair and the resignation of Mr. Byram. Final action on their election was scheduled for the January, 1959; meeting.

Further tribute was paid to the memory of the late Carl E. Akeley, to whom the Hall of African Mammals was desirated as "Carl E. Akeley Memorial Hall" in 1927, through publication in 1928 to the Mission of a period of pair produces of the product of the following of Africa's work in few that terms and sculpture.

There were low starges or the scientific staff of the Museum during 1978. Dr. Faul C. Startley, for function yours Associate Curation of the United States Latitud, Museum at Washington, Dr. Jonnest the Staff of Facil Museum, as Associate Curation of the Herbardium. Dr. Halph Linton and Dr. Williams M. Metlovern, both of whom had been Associate Curations in the Department of Associate Curation for the continued the work through the year as Assistant Curation of Egyptia. As the continued the work through the year as Assistant Curation of Egyptia. As the second through the year as Assistant Curation of Egyptia Associated with Wood Testimony. The title of Massociated wood Testimony. The title of Massociated Associated Wood Testimony. The title of Massociated Associated Curation of Central and South American Archaeology.

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Lecture Driver in Mrs. Directly R. Couling transpersion of Couline, and
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In the order of employment than are Mrs. Finals Poster, Mins. June
Work and Mrs. A. Hierten, Mins. Margaret Convenient and most the Driver.

The Massacratian been fortunate at the activation of the reaspapers at the company of publicity and advertising.

Generous space has been given the activities of the Museum in the newspapers of Chicago and the press of the country as a whole. The Museum has been advertised in posters displayed by local transportation companies, by space given in theatre and opera programs, and by the distribution of Museum direction folders through railroads, hotels, civic associations, and other organizations. Details of the publicity and advertising are given elsewhere in this Report. Grateful acknowledgement is hereby extended to those in charge of the various enterprises which have thus given generous assistance in promotting public interest in this institution.

A large amount of reconstruction work and improvement in the building was undertaken and completed during 1928. Of first importance was the preparation of the new halls on the ground floor. the opening of which has already been referred to. Involved in this work was the moving of the north wall of Hall J. containing the Egyptian collections, seven feet to the north, and the building of a new type of case 199 feet long on the north and east walls. A similar case thirty feet long was constructed on the west end of the south wall. These cases extend fourteen feet to the ceiling, and the upper parts are offset to form an upper overhanging case immediately above the view glass of the lower section. Illumination is provided within the case but entirely outside the range of vision. Installed in the lower sections are mummies on inclined benches and other ancient Egyptan relics, with fabrics stretched on frames on the back walls and tomb sculptures set flush with those walls. Installed in the upper cases are a seventy-seven foot facsimile of the funerary papyrus of Ani, and, occupying 116 feet, plaster casts of sculptures enameled and glazed with umber to bring out the detail. These cases follow closely in principle, construction and illumination the habitat group cases in the Department of Zoology, but their adaptation to anthropological material and the installation methods employed here are, so far as can be learned, an innovation in museum work.

A case thirty-six feet long for African wood carvings was built on the west wall of Hall D. Tile partitions were built along the south side of Hall J and on the south and east sides of Hall B (one of the new ground floor halls unoccupied as yet). The doors to the north of Hall J leading to the stairways and passenger elevator were removed, and the openings enlarged to the full width of the corridors.

Various partitions were removed and doors and transoms blocked up to make available for exhibition space areas previously used for storage worth and south of Hall K immoccupied ground floar hall) and also in cit of the James Simpson Theatre. About three hundred feet of freak air duct were removed, and the fresh air inlets on the nerth wall of this. I were connected to the fan under the morth extraore. This reduced the route of travel for fresh air through ducts to Hall I by more than four hundred feet. The removal of this air duct, together with the removal of old steam mains and other shart i met service pipes, made available the aforementioned storage space some 11,000 square feet, for future ground floar exhibition halls. The removal of the old steam mains from the ceiling also made feasile the construction of the new types of exhibition cases in Hall I ard it is as be said, in fact, that every exhibition hall on the ground it see has been greatly benefited by the removal of the pipes.

Steam tunnels and trenches were caulked with tarred rope oakum. Ceiling outlets for illumination in Halls D, E, G, H and J were lined up. Those in Hall J were extended down the piers to provide for latter with the common of player involved a great amount of player cutting and patching.

Halls D. F. F. G. H. and J. and the corridors leading to the cafeteria, were painted. New shades were provided for Hall H. Two balcony fronts and three stained glass windows representing eightcenth century Egypt were required, fitted with light bones, and installed on the south wall of Hall J. Nine cases in Hall K were provided with ground glass in their ceilings, and their interiors were painted in preparates of for scenic backgrounds for future exhibits of marine mammal groups.

Much miscellaneous improvement and maintenance work was done in various parts of the Museum. Two bronze cases were provided at the scale of a fitance. First Halfor the desimation of New Guites feather mass of fowering to git. I handledge patters were installed in and swell will be add 22. A way few deapers were taken done, centred had relating it certain to be add the walls where the drages but gowers contect. Five cases of shall had groups of Assatur manufacts were built in Walland V. Kelley Hall. Hall II, and ten such cases were built in Hall II devoted to habital groups of Assatur manufacts. I mented use indeed were provided for these and other such cases. Sale sufficient was were built between Halls IG and IT. I mented give to be a were fitted to cases for the trials and don don groups.

A new system of individual use lighting in Freest R. Graham Hall, and a system of beam lighting for the new northly paintings in

that hall, were installed. New silverite glass was installed in the tops of cases.

Because of the inadequacy of space and the unsuitability of the former ground floor location of the X-ray studio, it was installed in more suitable quarters on the third floor. It now occupies a suite of three rooms—operating room insulated with lead sheeting, dark room, and office.

New sun curtains were installed in the photographic operating and printing rooms.

Much interior cleaning and painting was done, particularly in the Herbarium, and in Rooms 7, 40 and 108 on the third floor. Some 870 trays, with racks in steel cabinets, were constructed for bird and mammal storage, and many model cases and much other equipment necessary for the work of the various Departments were made

On the roof of the building new skylight bars and ribbed wire glass were installed on the main skylight, except for nineteen rows of lights at the southeast corner which were placed in 1927. A large fan was installed at either end of the clerestory under the roof to circulate the air, as an added precaution to prevent condensation on the skylights. The terra cotta cornice and the court windows were tuck pointed. Four men worked full time cutting out loose mortar joints in the marble work and refilling them with cement mortar. All of the exterior window sills of the building received a coat of paint.

Western Union Time Service was installed during the year for the clocks at the north or main entrance, and at the entrance to the James Simpson Theatre. A new canopy was installed at the west door.

Under its agreement with the Shedd Aquarium the Museum began supplying heat to that building in December, when it was found that it would be needed for drying out purposes during construction.

LECTURES AND ENTERTAINMENTS

GENERAL LECTURES.—The Museum's forty-ninth and fiftieth courses of free lectures were given in the James Simpson Theatre on Saturday afternoons during the spring and autumn months. These were illustrated by motion pictures and stereopticon slides. Following are the programs of both courses:





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November 17—"Treasure Hunting in Bolivia." Lieutenant-Colonel Charles Wellington Furlong, F.R.G.S., Boston.

November 24—"Under the Northern Lights." Commander Donald B. MacMillan, leader of the Rawson— MacMillan Subarctic Expedition of Field Museum, 1927-1928.

December 1—"Civilization of the Mayas—Past and Present."

Mr. J. Eric Thompson, Assistant Curator of Central and South
American Archaeology, Field Museum; leader of the Captain
Marshall Field First Archaeological Expedition to British
Honduras, 1928.

December 8—"The Turkestan."

Mr. George K. Cherrie, member of the James SimpsonRoosevelt-Field Museum Expedition to Central Asia, 1925-1926.

The total attendance at these nineteen lectures was 25,065.

In addition to the regular spring and autumn courses, the following special lectures were given:

January 14—"Birds and Animals of Alaska." Mr. William K. Finley, Director of Wild Life Conservation, State of Oregon.

January 15-January 14 lecture repeated.

January 22—"The Way of the Sperm Whaler." Dr. Robert Cushman Murphy, American Museum of Natural History, New York.

January 28—"Explorations in Plant Life."
Mr. Arthur C. Pillsbury, Berkeley, California.

January 29—"The Malay Peninsula." Mr. Carveth Wells, F. R. G. S.

February 11—"The Wonderland of Big Game."

Major A. Radcliffe Dugmore, F. R. G. S., F. R. P. S., London.

February 12—February 11 lecture repeated.

February 26—"By Aeroplane to Pigmy Land."

Professor Matthew W. Stirling, leader of the Stirling New
Guinea Expedition of the Smithsonian Institution.

October 21—"On the Roof of the World."

Captain John B. Noel, London, official photographer of the
1924 Mount Everest Expedition.

October 28—"Jungle Gods."

Captain Carl von Hoffman, F. R. G. S., New York.

November 4—"Excavations at Kish, Mesopotamia."
(Work of Field Museum-Oxford University Joint Expedition, season of 1927-1928.)
Mr. Henry Field, Assistant Curator of Physical Anthropology, Field Museum.

November 18—"Ptolemy's Mountains of the Moon."

Dr. James P. Chapin, American Museum of Natural History,
New York.

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No. 25. Under the Number of Lights Commander from a Li. Ma. M. an locater of the Raws of Ma. M. and Number Linguistics of Joseph Museum, 197, 197.

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Massa Deel Fed Arrae o a Figeth of Dota Hundura 1907 • Mr. Gaurge W. Charle member of the James Singer

Louiseret Le I Museum Fige 1 of the traite and account

The total attendance at these special lesture, was 11, 30

A special metion-posture program, "Alasman Adventures," governon December 15, was attended by 4889.

CONCLETS: A series of chamber many converts was given by Gorbon String Quarter in the James Simpson Theatre, on the Subday afternoons: February 5 and 15, March 11 and and April 8 and 15.

On Sunday, May 16, Mrs. humbeth Sprague Cooledge sponsorest a concept given by the Rose String Quartet of Victima in the James 7.

Theatre. The total attendance at the seven concepts was 4.1.

EDUCATIONAL MEETINGS

The use of the Lecture Hall was extended to eleven educational at a coor group. These conferences were attended by a total of the terrors.

RADIO TALKS

During the year, four radio talks were given by a member of the Haymend Division. Three of these were over WGN, the tribunal status, and completed the series of ten begun in the 1927. One on "Ocean Life" was broad ast over WMAQ, the Compt Pinty News status.

LECTURE TOURS FOR ADULTS

As in previous years, the services of Museum public between or offered without charge to clubs, convicts his and offer organiated to Museum visitors in process. For the public 112 fears and les tours covering specifically is were arranged. For monthly a technical were legitual the north-door for distrition values. Hurstress of on, as were sent at the beginning of each month to libraries, social settlements, retail stores, and other centers of distribution.

There were seventy-five groups from clubs, conventions and colleges, and fifty-two other special parties, totalling 2,362 persons, who received guide-lecture service.

General public groups numbered 399, with 3,846 in attendance. The total number of adult tours was 526, with an attendance of 6,208.

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

Entertainments for Children.—The James Nelson and Anna Louise Raymond Public School and Children's Lecture Fund made possible the continuation of lecture work among children, both in the Museum and outside in schools and camps.

Series of entertainments were offered as usual in the spring and autumn, and in addition summer and winter series were added this year. By arrangement with the South Park Commissioners, special children's tours and motion picture programs were conducted during eight weeks of the summer. The groups brought from the various parks and playgrounds of the South Parks system for this course of tours and motion pictures totalled 2,202 children.

In addition to the special summer series arranged under the auspices of the South Park Commissioners, Field Museum carried on during the same season a similar series under the provisions of the Raymond Fund. These programs were given special publicity in the local press, and invitations to send groups were extended to the various clubs maintained for children by Chicago newspapers, including the "Topsy Turvy Times" of the Daily News, "Junior Journal" of the Journal, "Boys and Girls Post" of the Evening Post, and the Sally Joy Brown groups of the Tribune. Ten such groups were given guide service, with an attendance of 447, and seven special motion picture programs, attended by 2,150 children, including both the newspaper groups and other children, were presented. The "Chronicles of America" series of motion pictures, a gift to the Museum from Mr. Chauncey Keep, were used for both series of summer programs.

The programs of the entire year were as follows:

SPRING COURSE

February 11-"Abraham Lincoln."

February 18—"George Washington."

February 25 stang

March 5 y lave seven of Venue Herman of the hea The Mountain Lon Woods No.

March In Isons

March I' Swarp Wige Chests Cape

"Monkeys."
"High in the Andre"
"Hoods and Horns."

March 16 "Assorted Balica."
"The Pight for Life."
"Pragata the Glorious.

"Where the Mouse Runs Lone") eathered Braves

Matth M. "Grass."

April 1 "An African Adventure."

"Trely's

Winter Post N. April 14 Ramine of a Natura let Among the Indians.

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New York Secturer.

April 10 Tebra "Nature a Cathedra

April 14 Mara of the South Year

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July 11 Counties

July 15 "Jamestown July 16 The Puttana

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August 16 The Ire arat of distinger for with a greater

August 15 France Books
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"Mysteries of to me.
October 15 fras "

"How Living Things First a Home

"Butterflies and Moths." "Jungle Round-up. "Children of the Sun." October 20-"The Sahara." "Ants. "Bees and Spiders."
"The Lion Hunt." "Perfume and Nicotine." October 27-"Switzerland." "Seaside Friends and Their Country Cousins." "A Day at the River. "Where Snowtime is Joytime." "Mountain Climbing in Glacier National Park." November 3-"China." "Down at Our Pond." "In Birdland." "Monarchs of the Plains." "Our Four-footed Pals." November 10-"Argentina." "Pirates of the Sea." "Pets."
"The Story of Leather." November 17-"Peoples of the Mediterranean." "Furry Creatures."
"Friends to Man." "Secrets of the Sea." "The Parasol Ant." November 24-"From England to South America." "Preparing for a Garden." "Palace of Honey." "Golden Fleeces. December 1—"The Rhine Valley."
"Growing Things."
"Fruit and Flowers." "Bird Sanctuary." "Monarch of the Glen."

WINTER PROGRAMS

January 28—"Secrets of the Flowers."
(Mr. Arthur C. Pillsbury, Berkeley, California—lecturer.)

February 22—"George Washington."

December 15—"Alaskan Adventures,"

December 22—"Bre'r Rabbit and His Pals."

"The Little Indian Weaver."

"The Wee Scotch Piper."

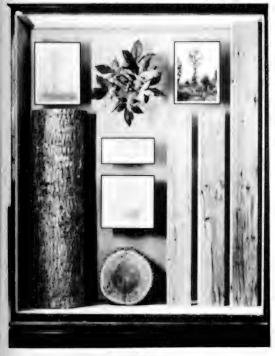
"The Little Swiss Wood Carver."
"The Little Dutch Tulip Girl."

December 29-Entertainment by Chief Little Moose, a Chippewa Indian.

SPECIAL.

November 12-Americanization Program.

Field Museum cooperated further with the South Park Commissioners by loaning certain films for showing in programs held at the various parks and playgrounds of the South Parks system. Ferrimon .



OF THE University of Illinois Not only have the children's departments of the Chicago newspapers as periods in a significant section of their years attention of their years readers, but they have also given special publicity to the other series of children's entertainments in the spring and for a significant news columns. The Chicago for the form of the other section has regarded a mean of the "Manner Stress" of the section of the Change from the entertainments. The "Topsy Turry Times" of the Change from the News cooperated by linking some of its features with the Massen entertainments under a opesial arrangement.

On October 26 a meeting of both adults and children under the numbers of the Chicago Board of Education was held in the James Super Theatre. This civic assembly was most enthusiational, carried out. Firsty as a summarized was were represented, and need from the number organizations interested in the betterment of the city and its own as World a fact up in. The programs chosen with a group of total rail pages its, depoling the development of Chilago.

The total number of challen,'s programs was forty-one. If to this tunber is balled the attendance of 1,200 at the meeting in the Theatre on October 26, arranged by the Chicago Board of Education, to what once challen from all districts of the city, the total number of challents groups which have been entertained is fortytion, and the total attendance in 48,045.

Libertonia Totas ivon Criticians. Lecture tours correlating with school programs or organised for a general knowledge of Museum catalytis were place to groups from pulsar, purceion and private actions of C age and surrouting schools by a 141 s. age upon totaling 17 92 observer receives the service.

Exception of Lagrange I stempton between were stored to elementary, not or and secure high actions of the Chinas part achieves greated. The total number of actions contain and 114 and the total number of actions processes in a second of the secure lectures presented in action of containing and more of each of the given to act or other action force on action to a play and. The total action is was 1963.

The titles of lentures were as follows

Marina a Tolivillagi Shea. Marina a Thomas Shella "Birds of the Chicago Area,"

"African Animals."

"Food Fish of the World."

"Silk and Wool."

"Flax and Cotton."

"Activities of Field Museum."

"North American Indians."

"Glimpses of Chinese Life."

"What We Owe to South America."

"Life of the Ancient Egyptians."

"Life of the Native Philippines."

Totals.—If the number of children receiving instruction by means of entertainments, tours and lectures be added to the number of adults receiving similar instruction, the total reached by these Museum educational efforts in 1928 consists of 1,566 groups, numbering 307,161 individuals.

ACCESSIONS.—The Raymond Division acquired during the year, through the Division of Photography, 432 lantern slides for use in its public school extension lectures. Thirteen other slides were obtained by purchase, making the total number added to the collection 445. This brings the total number of lantern slides now available for school lectures to approximately 5,000.

The Chicago Chapter of the Wildflower Preservation Society of America kindly loaned the Museum a number of its lantern slides on wildflowers of the Chicago area, for reproduction, and plans for a lecture on this subject, to be added to the list of school extension lectures, were thus facilitated.

NATURE STUDY COURSE

Preliminary steps were inaugurated during the year for a course in nature study to be given during the spring of 1929.

The course, as planned, will cover the topics most needed by those directing study of nature subjects in camps, school clubs, community organizations, et cetera. These will include studies of the animal, mineral and plant groups of the Chicago area, which will be discussed in the small Lecture Hall and followed by tours of correlated exhibits. The tours will be conducted by the guide-lecturers of the Museum.

Indications are that the course will meet the needs of many organizations, and it is hoped to make it a permanent part of the educational work of the Museum.

PUBLICATIONS

In the review see of Fig. More. Put alone end were in activity to part each in the review program Arthur to the first to the first to the review of publications, and one partition of programmes issued. Following is a detailed list of these publications:

- Parist Francisco V XII No. 4 Section 1 Section
- Fig. 14. For quarter of the All No. 14. A New years of the New years and the Property of the Control of the Con
- Pub. 74a. Report Scree, Vol. VII, No. 2. Annual Report of the Director for the Year and January 1925. The page 21 photogrammes. Make a late.
- 48 J. L. Ling and C. V. Fart III. The March Lond of Farama By Sett. F. Meek deceased) and Samuel F. Heldebrand. September 1, 1902. 944 pp. 21 halftoner. Edition 1,502.
- Full Dr. Josephanner V. X.II. No. 12. A New General of Aquat. Tradects. Grand Commun. 19, 40. Sept. H. Organd. Nucernitor 23, 1918. https://doi.org/10.1006/j.jch.1919.
- Fut 1. In the control of the Property of the following the first of the first of the following following following the following following the following fol
- Pun I.: Joseph and Section J. M. M. N. Western and American American By Karl F. Schmidt. November 21, 1925. 30 pp., a photogramure. Edition J. Schmidt.
- Pt. L. Art. break North No. 1 The Preventory of Academ. By Herthood Lauder. Incomplete 6, 19, 5 96 pp., 12 photogravates, I after Edition 1,523.

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Miniellaneout's Publications

- Taxofe my and the The war of the L. house, in Let Museum of A. photogravure, and text. Edition L.
- First Museum and the Child. 24 pp., 5 photogravures, 5 halftones. Edition. 6,476.
- Fierd Museum Stylebook. An Ilditerial and Typographical Manual. 16 pages. Edition 1969.
- Genera Guide. Twelfth lid tion. 27 pp., 1 photogravure, 2 since. Edition 4,825.
- transmit Guide. Therteenth Edition. 25 pp., 1 photogravure, 3 since. Edition 5,500.

To protect the Museum in the future from unauthorized use of material in some of its more popular leaflets and other publications, such as has occurred several times, it was decided to copyright all leaflets, and certain other publications. Copyrights were obtained during 1928 for "The Giraffe in History and Art," and also for the series of paintings on paleontological subjects presented by Mr. Ernest R. Graham, and photographs of these paintings.

LIBRARY

During the year there were added 2,910 books and pamphlets to the Library. The total number now on the shelves is approximately 95,000.

The Library had the good fortune to obtain several rare items that have been desired for some years. Noteworthy among these are:

Martius, Flora Brasiliensis, fifteen volumes in forty, 1840-1906.

Karsten, Florae Columbianae, 1858-1861.

Gesner, Historiae Animalium, Liber iii qui est de auium natura, 1555.

Aiton, Hortus Kewensis, 1789.

Flacourt, Histoire de la Grand Isle Madagascar, 1661.

Brasseur de Bourbourg, Etudes sur le Systéme Graphique et la Langue des Mayas, 1869-1870.

Azara, Reise nach Sud Amerika, 1781-1801.

Azara, Reise nach Sud Amerika, 1781-1801 Rengger, Reise nach Paraguay, 1818-1826.

Rochon, Voyage to Madagascar and the East Indies, 1893.

Levaillant, Histoire Naturelle des Promerops... Oiseaux de Paradis, 1807.

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The generous distribution of the Museum's publications has continued, and the Library has received in exchange valuable material from other museums, research organizations, scientific societies, and individuals, both at home and abroad. Among these were sets of publications from Naturforschende Gesellschaft, Basel, Switzerland; The Mining and Geological Institute of India, Calcutta; the Universidad Nacional de Tucuman, Argentina; Station Océanographique, Salammbo, Tunis, Africa; Departement van Landbouw, Nijverheid en Handel, Dutch Guiana; Dansk Geologisk Forening, Copenhagen, Denmark; Sociedad de Geografia Historia.

Guatemala Metropo itan Libraro Pening China, Ameglinto, Obras Completas y Curreno filencias Comina. Dueros Aires Princeton University, New Jersey

Through each a ges of the late of the valuable basis were obtained from the following thranes Mos., I have say Isbeary, Montre Dame Library, Notre Dame Library, Notre Dame, Indiana

Through the use of the system of inter fractions of the been possible to begrow hours for the use of our convenience of the Staff from the libraries of Chicago, and also from libraries of other cities books that were not available in any of the Chicago libraries. The Museum Labrare has in turn extended its usefulness by leaning its books similarly to other institutions.

The firm of the Botan oil Library were considerable, after giftened by the gift of a collection of 606 betatical separates, presented by Dr. Paul C. Standers of the Department of Botans.

Let I kemid Device, of Pranderia, Canforma, presented a set of his writings on boxts and manufacts.

During the year the final parts were reserved of the Oxford English Do to tary, a monumental work, the companing of which tax i thirty years. Also, the concluding volunte, six, was reserved of the beautifully inustrated set, George Lumorforpolies Collection, Catalogue of the Chinese, Cerean and Persons pottery and porcellars, by Holss 5.

There were written and filed in the various catalogues 12,405 cards. From the John Crerar Labrary were reserved monthly instal ments of their author cards, totaling 7,515.

There were prepared, forwarded and returned from the bondery

EXPEDITIONS AND RESEARCH

ANTHROPHERS During the year act expectations were operating in the interest of the Department of Anthropium;

The Cuptain Marshall Field First Archae logical Lapschison to British Honduras, under the leadership of Assistant Curator J. Eric Theorpion, was in the total force January 9, and after a few days, during which he just based stores and obtained the recommy concessants for expandation, he left for Camp 6 in the 6 ayo District, which is a smallest into dating from the close of the Maya.

Old Empire. There excavations were carried on until the middle of March. On the discovery of two new sites a few miles outside of this concession, Mr. Thompson returned to Belize and obtained a concession to excavate them.

One of these cities, to which Mr. Thompson gave the name of Tzimin Cax, is of great archaeological importance, for in it were found burials of the earliest known Maya period (roughly 200 B.C.-A.D. 200). Information on this early culture is very meagre, and material is scarce. As a result of operations at this site three important burials were discovered. Two of these graves yielded pottery of a type hitherto found only in the highlands of Guatemala. It had long been believed that an early culture flourished in this mountain area, but no direct connection with any other culture known had hitherto been found. These burials supply the evidence which had been missing of a stream of highland influence filtering into the Peten regions in early Maya times. Intensive excavation will probably throw more light on this early and little known phase of Maya history.

The second site, Hatzcap Ceel, and a third site, Cahal Pichic, discovered a month afterwards, represent the close of the Old Empire, and date some eight hundred years later. This was a period of transition, of which little is known. These sites of about A.D. 600 yielded a finely carved altar stone and practically all the jade that the expedition found. The altar stone is, so far as known, the only carved Maya monument with a legible date in the United States

A third phase of culture, rich in pottery and shell work, is also represented at Tzimin Cax. This probably represents a period intermediate between the opening and close of the Old Empire,

Unfortunately, shortage of water forced the cessation of work after six weeks of excavation. The work throughout was hampered by the uncertainty of it. Members of the expedition were compelled to wait for occasional rains to make possible each few days of work. This uncertain condition also affected the labor supply. It was impossible to sign up the laborers, Maya Indians, for a month, because at no period during the six weeks did the water supply appear sufficient for more than a week ahead. These conditions were unusual, the previous winter having been exceptionally dry, causing the shortage.

After dispatching his collections from Belize, Mr. Thompson moved to the north of the colony, and began excavations among

some small runs at Louise, e. a few order from Coronal, from which place he visited an interesting a tear the E. House Mexico. As the Museum infortunitely had to see the second or a cate on Mexican had be was grable to evident any operations in this territory.

During his archaeological work Mr. Thompson collected efficiency and data with will be an expensive to a pull-state he as preparing on the culture of the Maya I share of control or I southern Breach Hersburgs.

Work in the Maya field has been confined so far largely to a search for fresh ruins. The results of such work do not add much to our knowledge. One of the objectives of the Capital Marshall Field Paped, the was to seek pottery that would shed light on the interrelational potter was to seek pottery that would shed light on the interrelational potter was pottery known comes from a city which has been named Holmul, where, a number of years ago, a fine series of potter, vessels showing a high artistic shall was found. Mr. Thomps a found several graves containing tins early type of potters.

This dose very enlarges the horizon of early Maya consinue types, and gives a clearer idea of what types were contemporations at that early time. As a result of the experition it will be possible in the future to dust many sites by the similarity of their postery to the new series of early types established. The same applies, although to a less extent, to the modele period. Here the horizon of contemporations pattery types has been considerably extended, although the case t place this horizon should occupy in the system of Maya chrotoslogy is not so certain. The expedition appears to have extallialised for the first time the rarity of jude in early blave times and its comparative abundance in later periods. This conclusion appears certainly to this area and probably to the whole Maya rate.

The Second Captain Marshall Field Archaeological Fuperition to British Honduras and Guatemala, also led he Mr. Thompson, left Cheage in the moddle of December. During the first part of 1929 internave work will be continued at the three cities discovered by the first expedition. Especial attention will be paid to Transit Cax, where it is hoped Maya fustors will be traced even farther back.

Assistant Curator Walliam Thomas String accompanied the Rawson May Millar Subareto Tapedistrict of 1921-25 as anothropolic

gist. Starting June 25, 1927, from Wiscasset, Maine, the expedition arrived in Hopedale, Labrador, July 18. Dr. Strong carried on archaeological investigations on near-by islands, finding several burial cairns, skeletons, and typical Eskimo grave gifts. Piloted by an Eskimo, he visited the aberrant stone ruins at Sculpin Island. north of Nain. From the type of construction, evidences of whalebone roof-beams, lack of fire-pits, and the known fact that typical Eskimo burials were located on near-by hills, the conclusion was reached that the stone walls represented an old Eskimo whaling camp. Later investigation in Frobisher Bay revealed indubitable Eskimo ruins of this type. On July 30, while landing stores at the station site, Anatalak Bay, the first Naskapi Indians were sighted.

A cruise around Frobisher Bay in southeastern Baffin Island occupied the time from August 7 to 28. In the western end of the hav at Bishop's Island and Koojesse Inlet, stone ruins of a type identical with those on Sculpin Island, Labrador, were examined. Eskimo artifacts found in situ clinched their identity. On the Sylvia Grinnell River a base camp of Nugumiut Eskimo, living in primitive style, was encountered. Lack of able interpreters as well as time prevented the securing of collections, but sketches and photographs were made. The men and able-bodied women of this band were in the interior (vicinity of Amadjuak Lake), but their kayaks and umiaks on the Jordan River were seen.

Old stone, sod, and whale-bone iglus were encountered on Brewster Point, but time for digging was lacking. A representative collection of modern Eskimo camp debris (old lamps, harpoon-points, bone work) was secured from a temporarily abandoned camp of the Nugumiut. On Kodlunarn (White Man's) Island the ruins of Sir Martin Frobisher's camp were examined, and some fragmentary objects collected. Following the expedition's return to Labrador, the time between August 29 and September 28 was spent working on the house that was to shelter the party during the winter.

From September 29 to October 15 a trip was made south to Jack Lane's Bay and up Hunt's River in search of a band of Naskapi-Montagnais Indians. Dr. Strong was accompanied by a local boy. who, it turned out, had never been in the region before and did not know the whereabouts of the Indians. In the interior traveling was done by canoe. Storms, swift water, many portages, and an unknown country rendered the trip very difficult. There were no signs of the Indians where they had been reported to be, and though Dr. Strong and his companion pressed farther into the interior, still none were Jan 1000

seen. United in the first of the five as tending the storm start for several and the several area of the several at the tending for an area of the several at the tending facts. Laste a last of a series of the several at the tending facts.

From October 22 to December 10 ice was forming and being blown out to sea, making all travel impossible. The time therefore was spent on the houses and cutting wood.

On December 11 accompanied by one man and a dog team, Dr. Strag began a fact at the same in the second of the station. There he found the camp of a band of Barren Green I Is have been considered by the second of the second of

From Junuary 12 to April 6 the best werk with the Nashaja Indians was a placet. During that time Dr. Strong traveled with the India block that, for the met part in the interior. Studdenbish, as Isolian known to the whites as Joe Rich, acted as interpreter. Dr. Strong lived with him and his family, thus learning a great deal about all phases of their life. Crowded in a time tent with some ten Indians, eating their food, helping them had their tolongams, and hunting with them. Dr. Strong obtained a comprehensive idea of native life. They were some two but direct miles from the station and had traveled through a large area herotofore univested by white men. Temperatures as low as 40°, vertical, occasional periods when the Indians went on prolonged spress of molasses beer, and at times lack of food, were the main hardships.

As the Number depend alound entirely on instratory bresh of carrient for final, their deep on trolled to a great extent by the habits of these animals. Some fifteen years ago the Davis Indet people, who originally some from Northwest Roser, used on Indian House Lake with the Indren Great dearth, it was then not extraordinary to hall a thomas for once and a lay specify them when the main herd was crossing the lake on the local action nogration. Then, for some units we reased the local at god their route, and now only a few one paratively so at least is was der through the barren lands in this area. According to the Indians, this happened because the deer smelled great heaps of bones left uncared for. The caribou, they say, told the caribou god of these bones, and he became very angry. He took all the caribou down into a distant mountain which the Indians call the Caribou House, the legend continues, and since then the Indians have been very hungry. Thus, they explain, they were forced to move to the coast where they could supplement their hunting trips with fishing, trade, and beggary. The Indians now are very careful to practise all the sacred rites pertaining to the caribou, thus hoping to make the caribou god relent. They are especially concerned about preventing the dogs from touching the head, horns, or long bones of the deer. They require that the sacred marrow used at the ceremonial feasts be eaten in the lodge, and the container cleaned at once. This is to prevent possible profanation of the deer by dogs.

The mythology of the Naskapi forms an interesting link between that recorded by Turner in Ungava and that by Speck in southern Labrador. The many references to southern animals, mere names to these people, and the contents of the myths which refer to such things as palisaded villages, suggest a rather recent northerly movement of the people. The fact that Indian place names, especially towards the coast, seem to be comparatively scarce, while they use Eskimoan or white men's names for rivers and lakes, confirms this suggestion.

A mythical people, called the Katcimedgeezue, are greatly feared by the Naskapi. These people are said to come far into the lonely interior in magical tall-bowed canoes and to steal Naskapi children. Their whistling may be heard by the common people, the Naskapi say, but they are invisible except to the Naskapi conjurers who pretend they can see them and drive them away by the aid of their own powerful spirits. This would seem to be the northern version of the tales inspired by the fierce Iroquois, who in early times drove the Naskapi to the north. Dr. Strong reports that the interior of Labrador is so utterly desolate and lonely that it is small wonder that the Indians believe it to be the abode of these and a host of other malevolent spirits.

The Naskapi Indians do not seem to regard certain areas as belonging exclusively to certain bands. Each has a huge region, that of the Barren Ground people including some thirty thousand square miles, totally unoccupied save by about one hundred Indians. Should one band be markedly successful in the hunt, or should cardiou be abundant near them, they are vasted by those less facturate. The bands are losse organizations of kindolk, and are constantly shifting population. Marriage is accompanied by no error, but is usually mornogamous. It is ust be between people into are 1 of related in any close degree. As exception to this rule, I never, a the late of the control of the late of the lat

Their implements are simple, and except for motiern ritles and axes, are largely made of wood. The Indians, utilitie the Estimo, always cook their feed. This dependence on timber is the man factor preventing their moving farther north into the treeless area were the main herds of caribou seem to be present. The art of trees people finds its best expression in painting on slans, although some wood and bone carving is done. Strange to say, their art rate to an seems to be very slightly developed. So far as could be east about the character investigation, at it is almost entirely rivers led for decoration, not for magical or required as a fire reserved.

When the Indians are caught out in a storm or on treeless barren gracies a heap of snow is piled up and allowed to freeze for half in hear it is then hollowed out with a snowshoe, and deeply besided not require boughs if they are available. When all the Indians are use the door is scaled shut. Possibly the Indians may have been to be a state of the construction of the Indian house is entirely a second to the construction of the Indian house is entirely a second property of show among any Indians. The investigator's stay with the Indians was terminated by their return to the coast because of searcity of caribou in the interior.

In April the expedition moved to Hopedale, where some seventyfor Laboratory and the street and the street and the street with Dr. E. K. Langford, physician of the expedition.

A trip to Law was parte from Apr., 14 to Mar. 2, Living with the trip track a bar fred I show were pour red. I a dark at hybridization were secured from the Moravian Mission records.

From Max 2 to 18 the professional and Command Hebron were varied. As people on our ferrit at these students were transcriptly as the season personal Metrogous rough the return pursues of that and sentential formula transcript and particles are the first water size in the Legisland West factor in the Legisland West factor in

The time from May 19 to June 19 was spent at the station, because melting ice prevented travel. Studies and measurements of some twenty-five Indians were made, and some Indian material was collected.

From June 20 to July 4 an excursion was made in a canoe for about fifty miles over the difficult Hunt's River route to investigate a stone age Eskimo ruin reported by the Indians. Many ancient Eskimo stone implements were secured, and the ancient Sharp Hill quarry (head of Jack Lane's Bay) was thoroughy investigated.

During the period from July 5 to 22 stone age Eskimo sites at Windy Tickle and sites of the early Mission period (about 1770)

were excavated at Spirit Island and Hopedale.

From July 27 to August 10 archaeological investigations of islands east of Nain were continued, partly by motor-boat and partly by canoe. On these excursions the cooperation and assistance of Messrs. Frank Henderson and Novio Bertrand, two of Commander MacMillan's aids, were of great value. Excavations were made in early Mission period ruins at Nateutuk, Ivalik, and Nukasujuktok Islands. About twenty old Eskimo graves and gift cairns were studied, and their contents secured.

The cultural remains encountered during excavations on the northern Labrador coast indicate two main periods of Eskimo occupation of the region between Port Manvers and Hopedale.

The first is a stone age culture, found in small camp sites exposed by wind or water erosion, which are marked by well-chipped chalcedony, quartz, or fiint points and blades, ground-stone pot fragments, adze-blades, a gouge, and stone ulus. There is a notable absence of bone or ivory work. Some small fragments of fossilized bone were found at these sites, but no worked bone implements. The majority of these sites are on the coast, but one old site which is identical was found some fifty miles up Hunt's River.

An old native quarry of colorless chalcedony, its lower exposures covered by two feet of moss and soil, was discovered at the head of Jack Lane's Bay. Hammer-stones and characteristic stone implements were found in the bare wind-eroded exposures near-by. This quarry marked the only occurrence of chalcedony known in the region, and the site shows evidence of extensive work. The character of the stone ulus, adze-blades, and of one steatite charm indicates that the makers were Eskimoan. The presence of the gouge and the type of chipped stone points indicate a relationship with the



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the Royal College of Surgeons, and Professor Elliott Smith of University College, London, in connection with studies of Nean-derthal man. Mr. Frederick Blaschke, of Cold Spring on Hudson, New York, sculptor who accompanied the expedition, made a model of the Forbes Quarry Gibraltar skull of a Neanderthal woman, under the supervision of Sir Arthur, with the original skull before him. The Chapelle-aux-Saints cranium was taken as a model for Neanderthal man and a similar work of reproduction accomplished. The sculptor also made a one-fifth scale model of a Neanderthal man, with Sir Arthur and Professor Smith giving many valuable suggestions. Plaster casts of several Neanderthal skeletal remains were purchased to aid the sculptor. Books and other sources of information were placed at his disposal. These models will be of use in carrying out plans for the proposed hall.

The members of the expedition next proceeded to Paris, where they were joined by Abbé Henri Breuil, professor at the Institut de Paléontologie Humaine, who had agreed to act as scientific adviser. Mr. Pierre Gatier of Paris was engaged as artist, and Mr. Henri Barreyre as photographer. Headquarters were established at Les Eyzies in the Dordogne region of southwestern France. Mr. D. Peyrony, Director of the Les Eyzies Museum, kindly granted the expedition permission to collect data and to make photographs, motion pictures and color sketches in and about the famous rock-shelter of Cap Blanc, whence came the skeleton of a Magdalenian young man which the Museum obtained in 1927—the only complete adult paleolithic skeleton in the United States. Samples of the earth covering the rock-shelter were secured, and pieces from the wall were obtained for the use of Field Museum.

Cap Blanc was visited, and Abbé Breuil and Mr. Field spent much time examining collections of prehistoric objects excavated by farmers living near-by. Upon the recommendation of the Abbé, Mr. Field purchased the Castanet collection, which includes a remarkable Aurignacian necklace from La Souquette. This necklace is composed of beads made from mammoth ivory, shells, perforated teeth, and small pebbles, and is approximately 35,000 years old. All noted prehistoric caves in the region were visited to aid in selection of material for future exhibition, and several small collections were purchased. The art staff then proceeded to Mas d'Azil and made photographs, motion pictures, sketches and two models.

At the invitation of Professor Hugo Obermaier of the University of Madrid the expedition visited the renowned cave of Altamira mean Santanuer in a street, Spant. Sovera, aman collections were particulated at that we produced. Parta on the Assum period were collected. After less, and Mr. Fred that costed the cave of Ganges and patterns from the street of the whole will be of use at one of the ext. It is particulated for the proposed for.

Mr. First, as special project to an artistic beat or excellent as a few states of the artistic beat or excellent as a few states of the artistic beat of the artistic beat of the artistic beat at the artistic beat and artistic beat artistic beat at the artistic beat and artistic beat artistic beat at the artistic beat artistic beat at the artis

Valuable association was residered the expedition to Miss Directive Garriel, of Oxford I moveraty, who discovered a Neumberthal stul I's skeleton at the pales little cave called Devil's Tower, of the Mousterian period at tolerator where Associate Curator Field had made notice studies in 1925.

Dr. Henra Martin of Paris, who discovered in 1927 a frace of animals definitely belonging to the Solution period, kindly granted to the expection the province of acquiring the only set of casts made from the first model. No other set has been permitted to leave France. The animals are life-size, curved in relact, and all fermies. Included in an interesting scene in which a cow, with awered breat is changing a man.

The Freed Museum Oxford University Joint Expesition to Mesopotamia, from ed by Captino Marshall Freed and Mr. Herbert Weld completed to anti-bearen at Kish, working from the beginning of December, 1967 to April 1, 1968. The held director was again Mr. L. C. Waterin. He was assisted by Mesors Hierry Field and Fro Sciences. The general superconnected the work was as precommend in the text to of Professor Stepton Largest of Oxford University.

During the season of 1925 its true from two bud been due with the southern performs of the great term, on our period. Harragina area, the earth goldens on the western into if the argument syname. The temperature of the temperature of the temperature, but due not reach any of the lower ways. During the following season, 1926 27, under the arrestion of Me. Wateron, if was devided to come a large rectum, as an emitted area to the arrestion of the season in the temperature. P27 28, it was possible to clear the season integer consideration.

of five meters over an area of about a hundred square meters. The center of this area revealed a building designated in the records as Monument Z. which contained practically no objects. Although it was located beneath the Arab remains, it was above the culture stratum attributed to the period of Sargon I.

The general plan for this season was to clear a limited area down to water level, and to make an effort to obtain objects of cultural importance belonging to the earliest inhabitants of Kish. It was also imperative to secure skeletal material that would contribute to solving the problem as to the physical characteristics of the early inhabitants of Mesopotamia. The work was carried on with a force of about two hundred workmen and basket-boys. A light railway system consisting of eight small trucks was employed for the removal of the earth of the mounds above the plain level. Below this, basketboys were used, and a space about ninety meters in length and thirty meters in width was excavated down to a depth of fifty feet below the original surface of the mound. At this point water was reached, and further digging was impossible.

Continuing below the magnificent temple of Nabonidus, erected toward the middle of the sixth century B.C., an almost sterile red stratum which covered the entire area at this particular depth was reached. Just above this red laver was found a female skeleton with a thin gold headband in place around the skull. There were numerous large pots with handles emblematic of the mother-goddess, so characteristic of cemetery "A," excavated by the expedition during its second season. From another grave, presumably that of a princess, were brought to light a beautiful lapis-lazuli and gold necklace, copper hairpins surmounted by figures of cow heads, and a variety of beads, silver earrings, bracelets and other jewelry. In the red stratum, which divides the upper and lower layers, were found two lapis-lazuli cylinder seals with clearly cut inscriptions, which Professor Langdon has been able to date at about 2950 B.C. As the work continued down toward water level, it was obvious that everything to be found below this red stratum was prior to 3000 B.C.

Human skeletons occurred in all the various levels, and Assistant Curator Field spent every day with two Arab workmen, especially trained for this kind of work, in the task of removing the earth from the bones, applying to them a thin coat of wax, and packing them in wooden boxes preparatory for shipment to Chicago. Accurate records were kept of the exact level in which each skeleton was feated, together with the objects discovered with the skeleton. Drawings and sketches of the positions of the objects were also made. Fragments of more than two hundred skeletons were sent to Chicago. The condition of the bones as water level was approached because decidedly werse, and in several cases it was impossible to preserve these.

The general culture encountered in the lower levels differs marked y from that of the layers overlying the red stratum. There was a quantity of pottery, many pieces representing new forms. There was a definite transition to a newer and richer stone culture, and tumbers of vers to estimate a found in over 10 grains of the except in our forms. There was a complete above of presents at meaning of the stratum. There was a complete above of presents at meaning the estimate of the plants of new forms particularly, a short or principal bends in the front the rester wheel of a maje stone amount of the globals in the front the Person Golf. Part of the exterior, as it is of the stone, was out off, as if the shell itself was used us a print lave form of lamps. A mander of copper checks were uncartified, including a lamp made in the shade of a sold on pure from with even of minutating in five polass.

The two most important objects discovered in the lowest levels are remains of two chariots, one with two wheels, another with four The former was drawn by built. There were several human shelet its bing in various point, its inside the low-walled enclosure close to the wheels of this chart it. The wood of the wheels was distributed, and had become a most as thin as paper. Around the edge of each wheel were super than Some weeks after the discovery of the Imposition char of the four-whomed one was en ourstone). The skeleture of four animals that that apparently drawn at were your on either asie of the pale. They had evidently been as full el with their master. Between two of the abilitials was found a shaft terminated by a metal bess and supporting the rings surm outled by a small copper but, through which passed the rests Dis very important disovers titions a new at 1 precise light on the means of transport in use alout 1200 to a literal availabled the wheels and bedy of the charted was a see and did not process or uppying Bearly three weeks. The west was it a very fragmentary condition, and it was only by applicing stateer. I also of oak carmillower its sufface that it could be preserved. The framework of the charted crumb of the propent that it was expressed to the air, but Mr. Wateles

succeeded, by using meticulous care, in determining its dimensions and general technique.

According to his report, the wheels consist of wooden planks kept in place by a rim, and strengthened on both the outside and the inside by wooden cross-pieces measuring two and three-eighths inches in diameter. The rim is covered with copper nails at close intervals. The axles supported a platform which had a copper border at the anterior end, and wooden semicircular sideboards.

Close to the four-wheeled chariot was found a copper saw, probably used for cutting the wood of the wheels. There were also several human skeletons lying in this vicinity, and one complete skeleton in a very good state of preservation was recumbent on the slope some ten feet away from the rear end of the chariot.

At the close of the season the work of cataloguing and packing was completed after the division of the objects with the Irak Museum. represented by Mr. R. S. Cooke, Honorary Director of Antiquities for Irak.

During the season a comprehensive series of photographs was taken at Kish. An interesting motion picture of the work in progress was also made. Mr. Schroeder and Mr. Field also took numerous photographs illustrating the season's activities and the general progress of the excavations.

The most remarkable discovery of the season, according to Professor Langdon, is a new prehistoric culture, not Sumerian, but allied to Sumerian, equally old and entirely distinct. This new culture represents a people characterized physically by a side hairlock worn over the right ear and falling from the crown of the otherwise completely tonsured head. They produced finely painted pottery both in one color and in yellow, black, and red. The pottery was wheel-made and decorated almost entirely with geometrical designs, although a few naturalistic motives of animals occur, connecting this culture directly with early Elam.

In 1926, Jemdet Nasr, which lies eighteen miles northeast of Kish, vielded many fragments of painted pottery and some complete painted jars and tablets of an archaic type. Mr. Watelin decided to continue excavations there in March, 1928, with a force of two hundred workmen accompanied by Messrs. Field and Schroeder. The workmen, after removing an enormous quantity of earth, found hundreds of fragments of painted pottery and some complete jars, as well as some pictographic tablets in linear script, seals of various



THE LIBRAIN OF THE UNIVERSITY OF ILLINOIS Jan 1929

archaic types and four fragmentary human skeletons in a poor state of preservation.

An identification report his Professor Language on antiseason is more at high was published in Artificial Artificial and Artificial Professor 1975

In June 1978, Mr. Fire Erectureed to Erect with Mr. 19 whet, assertant in photography to to take a series of interpolation of the presentate, it takes a series of the Erect series weeks, during who Is the temperature that for a total total of 1975 in the shade set of the maintain was the professional total total ordered Araba were measured. The during profession of the professional about sample of products of profession were bosen of them and a basic sample of products over one was distinct. This week was done with a view to comparing at some father date the people now accept in the Kish area with the accept Substitute and Semiles and it is of particular value because to offer air feature metro, series from Mesopotamia is available. More that two thousand photographs of physical types were light.

As a result of the discovery of flint implements of pules little types by Messra L. H. Dudley Buxton and Henry Field in 1925. between Amman in Transportantia and Pagelad, an appropriation was made for the continuation of this archaeological survey, known as the Captain Marshall Floor First November, 1927, and Second (April to June, 1928 Archaeological Expeditions to the North Ambian Desert, led by Assistant Curater Field. A seven passer per touring car was turchased, and a desert driver was loaned to the erredition to the Naira Lastern Company in Damascus for the menth of November, 1927. Thanks to the cooperation of the Ar-Ministry in Lendon and particularly to Group Captain Res A.C., himself a keet an theologist, the first expedition was allowed to accordants at am one! car patrol into the desert. Flint in plements, undoubtestively ped by man, were collected from about tweets five surface sites at various points in the desert. At Bur Wells implements of 1 pper t beliest type were obtained from the gravels, an important discovery. The expedition process the existence of man in a pare office phase of culture in the new altitud wateriess desert of North Arabia between the He as Radway as I Hagilad. The old that this report formed a people to an further to be gration so it as eviced

Through the kindness of the Ar Ministry is London and Air Head parties in Daphad, and so what we of Major A L. Host of the Turkish Petroleum Computer, the second especial of war allowed to accompany a desert survey parts. The expedition personnel consisted of Messrs. Henry Field, Eric Schroeder, S. Y. Showket, and G. Vania. For part of the way the expedition accompanied an armored car patrol, and was thus able to visit many important sites within an area containing a hostile population. Thousands of flint implements were collected from more than three hundred new sites. A large number of photographs was taken, and all the Roman and Arabic ruins were recorded. One of the most interesting places visited is Qasr Burqa which lies on the eastern border of the great Harrat er-Rajil and was the easternmost outpost of the Roman Empire. The ruins were mapped in detail, and more than two hundred photographs were taken. Detailed information on numerous historical ruins was obtained. Photographs of the Bedouins and their tribal life were made whenever possible.

In addition to the objects collected, and the data gathered bearing upon ruined buildings, information of great value concerning hundreds of milesof desert land was obtained. Notes on the topographical nature of the country traversed, the additional information and corrections which can be placed upon the new maps, and the deduction that this was once a well-watered and fertile area inhabited by man, all resulting from this expedition, add materially to the existing knowledge of the North Arabian Desert.

A preliminary archaeological survey was made in northeastern Irak between Kirkuk and Mosul in an attempt to link the chain of prehistoric surface sites in the desert with northeastern Irak. Caves were reported from near Rowanduz and Akkra, and it seems plausible to suggest that some of the prehistoric peoples passed through these gorges or to the south at Suleimania, where search is now being made for traces of paleolithic man.

Mr. Field returned to Chicago on October 3.

A great amount of research has been accomplished during the year by present and past members of the Staff of the Department of Anthropology. The results of many of these researches have already been received in manuscript, and others have reached an advanced stage so that the preparation of manuscript for publication may be expected in the not distant future.

Professor A. L. Kroeber, Research Associate in American Archaeology, has been engaged for two years in a technical investigation of ancient Peruvian fabrics collected by him during two expeditions to Peru on behalf of the Museum. He is aided in this work by a textile expert, Miss Lila O'Neale, of the University of California. Each fabric is analyzed as to technique, color scheme, pattern,

ceams, finance, and tauses. There are "fen from three to as techniques employed in one faloric. Some of these appear to be new to accenize. When the observations have been imported their will be classified according to area and possible it is toped that in this way not only a better idea of the range and variety of Peruvian textic act will be obtained but has a relicious data has an elevative and the art which is already outstanding a the similar of excessing a simple apparatus for wearing with extreme reformment of processes. Professor Krocker expects to have a manuscript or Peruvian Safety remains for publication during 1979.

Profess Rey I. Mostle the well-struct pure-public gost, admitted a perfect of his manuscript critical. Resolven governments of discuss and injury in ancient unopened munimy-packs from Egypt and pre-Columbian Peru, in Field Museum of Natural Hatter. This investigation is based on resolven graph made of Egyptian as a Perusian manuscript in the Division of Rose types agy of the Museum.

Assistant Curator A. B. Lewis completed a study of Metaceman stell money. Melanesia is notable for the great variety of stell makes formerly in use in inany parts of the region. The Museum is festivate in having it its collections examples of most of these varieties make of who have guite rare and undescribed. The study it quest, it gives a general account of the use of shell motery throughout Melanesia, the distribution of the different varieties, the mellods of manufacture, and a description of all examples in the Museum's collections.

The Eniph Linton, formerly an assistant curator of the Department, and now associate professor of fasturopology at the University of Wassensiti, has completed about one-half of the first of a projected series of ethiological studies based on his work as based of the Captain Marshall Field Expedition to Machagascar. The first study deals with the Tanala, a pagent tribe of Machagascar. The Tanala live in the dense rain forests of the castern inoutiant chain of the mandal, and have been little inductived by furiopean contact. Their arts, industries, social organization, and reagens stud retain practically their original form, and they offer lat uturnal opportunity for the study of a principle of the significance which had disappeared chewhere even at the time of the first Lunipean contact.

A leaflet dealing with the use of tobacco in Africa has been prepared along lines which coordinate with a series of five leaflets on tobacco published some years ago. A chapter on the introduction of tobacco into Africa has been written by Curator Laufer. Assistant Curator W. D. Hambly deals with African customs relating to tobacco, while the use of tobacco in Madagascar is presented by Dr. Ralph Linton. This subject presents many points of interest which center around the growing and manufacture of tobacco, the making of pipes and snuff boxes, and many quaint customs connected with smoking.

The manuscript of a study of the painted pottery and other objects found at Jemdet Nasr has been received from Mr. Ernest Mackay, and will shortly be published in the Memoir Series of the Museum.

Assistant Curator J. Eric Thompson prepared a manuscript on the ethnology of the present-day Mayas of British Honduras.

The results of the Captain Marshall Field Expedition to Colombia of 1922-23 were submitted for publication by its leader, Dr. Alden Mason, now of the Museum of the University of Pennsylvania.

Dr. William M. McGovern, formerly an assistant curator in the Department, and now of the faculty of Northwestern University, completed a manuscript on the ethnology of the Gran Chaco region.

The Curator, Dr. Berthold Laufer, made a study of the history of the game of polo in Asia for which he has collected an abundance of illustrative and documentary material from Persia, China, and India, and continued his researches into the domestications of animals, three of which are now almost ready—the cock, the cormorant, and the cat. The last-named investigation will definitely settle the problem of the first appearance of domesticated cats in Asia and the varieties of cats produced in the Far East. Corresponding with his "Prehistory of Aviation" and "Prehistory of Television," Dr. Laufer is planning to write five more prehistories—those of telegraphy, electricity, paleontology, meteorology, and the refrigerator.

Professor F. E. Wood, of Chicago, availed himself of the opportunities offered by the Department's study room, and examined all Peruvian skulls in the Museum's collection, measuring 362 of these and making notes on teratological and pathological conditions found.

BOTANY.—The major exploration work of the Department of Botany during the past year was the Captain Marshall Field Expedition to Parama, conjunted by Mr. G. Prestor't soper, he diamatant of Yale University School of Eventry who has fall wide experience in expectionary wish in Central America. For this expectation that Museum obtained the cooperation of the New York Hotanical Garden and of the School of Forestry of Yale University, through the interest of Professor Samuel J. Record, Associate in Wood Technology in Field Museum. The work of the expedition was faculated by substantial assistance rendered by the United Fruit Company of Bonto.

Mr. Cooper worked in Panis a fr — Describer 1965, with the first of April, 1968. Most of his time was not leef of equivalent in the Province of Bocas del Toro, on the Atlantic coast, where he collected from 202 trees series of specimens, instruction would not extend for the Large Country of the extended of the Large Country of the work provinces, and the students of works. It April he was test that the wessel specimens around Person, in the Department of San Blass.

The value of the wood samples was greatly increased by the fact that herbarrans specimens showing the leaves, and when possible the flowers and fruits, were also collected from most of the trees, thus making possible the accurate identification of the woods.

Arous 14 artage Costa Roca, Mr. Cooper obtained staty seven different kinds of herbs and strutes, and in Bocas del Toro 172 of air lar parts. The expection brought back about two thousand herbarium specimens which have been shared with the other obterested matitute as. The results of this undertaking were most satisfactory, the Museum acquiring a valuable series of woods and a large number of herbarium specimens from a region heretofore almost without representation in its collections.

Several papers have been published by Professor Record and Mr. Cooper detaining the results of the expectation. Among the weads obtained chief interest attactes to a fine slab of the "caroque bloodwood, which has been placed on exhibition in Stanley Field Hall. This tree, previously unknown to science, has proceed to be an undescribed one, Brossman calorpion, a near relative of the farmus letterswood of the Guantas. It is one of the rarent woods in the word. The natives regard this uniform redshish wood as possessing curative properties, and be possessing outside the tribe. Caroque I osciowed, as it is known to the Indiana, a rad obtained from hoory frees, but from old trutiks who have lain buries in the forest first unit, in thing remains but a core of dense tearthwest.

The herbarium specimens have been studied and determined by Associate Curator Paul C. Standley, who has found them to be of exceptional interest. They include representatives of two new genera, about sixty new species of trees, and one family of plants—the Quiinaceae—unknown heretofore north of South America, besides several published species of trees which had not been collected before in Central America. No other recent collection of plants from middle America has proved so rich in new or rare species.

* Mr. Llewelyn Williams, Assistant in Wood Technology, proceeded early in the year to Yale University where every facility was afforded by the School of Forestry to select specimens from the duplicate collection of tropical woods in that institution. At the same time he made studies of certain tropical woods, and the results of the investigations were published under the title "Studies of Some Tropical American Woods" in the September issue of "Tropical Woods," the publication issued quarterly by the Yale University School of Forestry.

The Department shared in one Museum expedition, the Rawson–MacMillan Subarctic Expedition. Messrs. C. S. Sewall and A. C. Weed assembled 678 specimens of plants, mostly from Labrador. The collection, added to those obtained by the same collectors in previous years, gives the Museum an excellent series from a region imperfectly known botanically.

As an indication of the extensive use which is being made of the Herbarium for research purposes, there may be cited twentynine papers published during the year. Some of these were prepared by the Staff of the Department of Botany, some describe the results of Museum expeditions, and others are based, at least in part, upon material in the collections of the Department.

Professor Samuel J. Record, Associate in Wood Technology, published in Tropical Woods a paper of twenty-seven pages listing the trees obtained in the region of Bocas del Toro by the Captain Marshall Field Expedition to Panama, 1928, and also a list of the trees collected by the same Expedition near Permé, Panama. The vernacular names are given for most of the trees reported, and the two papers form an important contribution to the knowledge of the forests of Central America.

Associate Curator Paul C. Standley published in *Tropical Woods* five short papers describing new species of Central American trees represented in collections received for determination by Field Museum. He published also in *Science* a brief article descriptive

of Lancetila Experiment Station. Homburas in the vicinity of which he made a large color to of plants during the writer of 1927-28.

Assistant Curation I. Francis Musticide published in Trippial Worst are accounted the tension to some control Personal managery tree. In the same pursual Mr. Williams published a detailed account of the worsts of seven species of trees from to the Parama Consternals, and Venezuela.

Mr. G. Presetter Cooper published in Tropical Woods two papersdescribing the results of the Cartain Mars in Fig. 1 Lapseltion to Parama. The first estitled "Some Interesting Trees of Parama, treats of several important Limber trees, among them the handstoone therefore cartains a fine with of who it recently was passed on eatilities in Startey Fired Ha. The second paper by Mr. 6 coper as a descriptive account of the forests of western Paraman.

In Tropical Woods for March 1, 1928, under the authorisis of Mr. David A. Kribs, there appeared in important account of The Persaud Collection of British Guara Woods, "covering forty pages and based upon a collection made for Field Museum in 1928-24 by Mr. A. C. Persaud. There are enumerated safty-eight species of woods, belonging to safty general and thirty-two families.

Mr. H. C. Benke published in Rhomea two papers describing saters and other plants, based upon material in the Museum Herbarium. Br. E. E. Sherff, in continuation of his studies of the genus Butens, published in the Butanical Gurette a paper describing several new species and varieties whose types are in the Herbarium of Field Museum.

Among other writers who have published papers based partly upon Field Museum collections may be mentioned Dr. S. F. Busic, who described ten new species of Werners and Dr. Diplostephane whose types are in the Herbarum, Mrs. I. W. Frianson, who described a new rose in a paper appearing in Rhodora; Mr. E. Sworth P. R., D. Wao published seven new Peravam, parts collected by the Captan Massinal Field Expedition to Pera. Mr. C. I. Kobushi, whose monographs of Acanthaceae list many Feel Museum specimera; Dr. Francu W. Pentoli, whose puper open, "Apilema and Allies in North America" cites numerous Museum specimena, expensibly from the central states; and Dr. B. L. Robinson, who designated as types of certain new South American specimena, especially discounters in the Herbarium of Field Museum.

The determination of unnamed once hote recaved during the year or out of much of the attention of the Staff of the Herbarum.

The most important collection studied was that made in Panama by Mr. G. Proctor Cooper of Yale, which required several weeks because of the large number of new or rare species which it contains. A paper describing the new species was prepared and is now in process of publication.

During the year many lots of plants were received from correspondents for determination, and these have been named and in most cases added to the Herbarium. A large part of the most valuable and desirable material received during the period under review was acquired in this manner. Material requiring determination was received from many portions of the United States, and from Mexico, British Honduras, Guatemala, Salvador, Honduras, Nicaragua, Costa Rica, Panama, Colombia, Ecuador, Peru, British Guiana, and Venezuela. Among these collections there were many interesting and unknown plants of which descriptions have been prepared for publication.

In order to make possible the accurate determination of the Museum's collection of tropical American plants of the family Rubiaceae, a group which yields coffee, quinine, ipecac, and other useful products, there were borrowed from the larger herbaria of the United States, through the courtesy of their curators, several hundred specimens of the family. These are being studied by Associate Curator Paul C. Standley who is preparing an enumeration of the Rubiaceae of Colombia, Ecuador, Peru and Bolivia.

A flora of the Yucatan Peninsula, which it is expected will be ready for publication during the coming year, has been brought nearly to completion by Associate Curator Standley.

Assistant Curator J. Francis Macbride has been able to devote a satisfactory amount of time to study of the collections of the Captain Marshall Field Expeditions to the Peruvian Andes. These collections, supplemented by those of Dr. A. Weberbauer, Mr. Carlos Schunke, and other collectors, are serving as the basis of a comprehensive list of the flora of Peru, now in course of preparation. During the year manuscript has been prepared for several of the larger families.

In the determination of Illinois plants Mr. H. C. Benke, of Chicago, contributed generously of his time, naming specimens sent by correspondents to the Museum for determination, and revising the identifications of specimens already in the Herbarium. Dr. Earl E. Sherff, of Chicago, has continued in the Herbarium his studies of the Compositae, particularly in the genus Bidens, and



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nized elsewhere, and the same fact is indicated by the large number of correspondents who forward material for determination. Frequent requests are received, also, for the names of local plants brought to the Herbarium by visitors from the Chicago district. By mail there are received numerous requests for information covering many branches of botanical knowledge, requiring the expenditure of much time to furnish the necessary data. The Department of Botany has assisted in the work of other Departments of the Museum by supplying information upon botanical matters.

The Herbarium has enjoyed visits during the past year from a large number of botanists of the United States and foreign countries who came to study the collections or to make the acquaintance of the Herbarium and its Staff.

Dr. J. S. Enander of Lillhardal, Sweden, one of the leading authorities of the world upon the willows, spent two weeks in the Herbarium, studying the Salix collections and annotating them. Dr. Enander was commissioned by the Swedish government to make a trip around the world for the purpose of studying willows and obtaining living material of them for introduction into Sweden, where they are used for basket making. With the assistance of the Staff of the Department and friends of the Museum he obtained a collection of cuttings of the willows of the Chicago region for shipment to Sweden. The death of this noted willow specialist, within a few weeks of his visit to the Museum, is noted with regret.

Mr. Charles C. Deam, State Forester of Indiana, Bluffton, Indiana, visited the Herbarium twice in order to obtain data for use in the preparation of an account of the grasses of his state. Dr. Cristobal Hicken, of Buenos Aires, one of the leading botanists of Argentina, visited the Museum in June, to familiarize himself with the Herbarium and the plant geography of the Lake Michigan dunes. Dr. C. R. Ball, of the United States Department of Agriculture, studied the collection of American willows, upon which he is an authority. Professor Edgar Anderson, of the Missouri Botanical Garden, St. Louis, studied the Iris collection, and Mr. R. E. Woodson, of the same institution, studied the American plants of the family Apocynaceae. Mr. H. Teuscher, of the Morton Arboretum, Lisle, Illinois, visited the Herbarium in order to identify specimens of woody plants. Mrs. Eileen W. Erlanson, of the University of Michigan, studied the collections of American roses.

Mr. G. S. Wilterka, I fine in versity in Washington beattle, was engaged for the greater part of the account of the state of the species of Aposens, a group of a conclusion in the tecasod like. Museum sestimates exclusion they are the Mose for medition of the broken account and appearance of the preparation of the account of the preparation of the propagation of the preparation of the propagation of the preparation of the prepa

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tatedown - American Corputor Sharat K. Koo, after competing his wich as a member of the Rawson. Mai Milliat Subart to Expeditions went to Newhorthian Lin charge of a special expedition, provided for the time Corputor Marshau Freid fatter. There he continued the motal of one of the fossion and other gradient along all specification with had been begun in the previous year in Laborator and Barbin Land.

The worter months be spent closely in preparing buts out and parking the ages months from Batha Land and locational and that had been obtained in the year previous. A previous subject of the Batha Land fossia inclusives that the faults is of a later per of the Batha Land fossia inclusives that the faults is of a later per of the Batha Land previously been supposed. It is expected that the inclusive study of the material will throw more applicable to the faults of the Observational in the Arch.

Native the matrix of many of the specimens was decided in their preparation required on a term's time that its particle and care a fine series was made read; it found that it is a form of the first particle and the matrix of the series and was on those and the matrix of August. The area of effectively guided to be whether hand was the seven set "eastern report of the career beautiful and that report is up between the current boundary of Notre Dame a Page on the continual time Base of the south case.

The locality at Manuels gave the best results, more than four hundred specimens of the fossils of Upper and Middle Cambrian age being obtained there. In all, about two thousand specimens were collected during the season. These belonged to the classes Lamellibranchiata, Annelida, Gastropoda and Trilobita. A large proportion are trilobites of Middle and Upper Cambrian age, and because of their antiquity and rarity they are an important addition to the Cambrian collections of the Museum. Their importance is further increased by the fact that preliminary studies indicate that many new genera and species will be found among them. Remarkably good preservation characterizes most of the fossils. The Cambrian fossils are of unusual interest also because many of them can be closely correlated with those of Massachusetts, New Brunswick, Great Britain, France, Spain, Bohemia and Scandinavia, These correlations indicate definitely that an open marine passage existed between northeastern North America and northwestern Europe during Middle Cambrian time.

A comprehensive collection was made also of the ores and minerals of Newfoundland, twelve different localities being represented in the specimens secured.

At Sydney, Nova Scotia, Mr. Roy rejoined the Rawson-Mac-Millan Expedition on its return trip, and reached the Museum early in September. All the specimens which he obtained are of species new to the Museum collections.

Through the courtesy of Judge George Bedford of Morris, Illinois, an opportunity was afforded to send Mr. J. B. Abbott of the Museum paleontological staff to visit several localities in Kansas, Nebraska, South Dakota and Colorado from which vertebrate fossils had been reported. Judge Bedford not only generously donated the use of his car, but accompanied Mr. Abbott on the trip to these localities. The first point at which collections were made was near Winona, Kansas, where remains of a large Mosasaur had been reported to the Museum by Mr. Mentor Etnyer of the Etnyer Survey. This locality yielded a skull, lower jaws, paddle bones and some other skeletal parts of the large Mosasaur, Tylosaurus, all of which were carefully excavated and shipped to the Museum.

A find of the horned dinosaur, *Triceratops*, near Camp Crook, South Dakota, was next investigated, but the specimen proved to be too poorly preserved to warrant removal. The party then proceeded to the well-known locality for fossil mammals at Agate Springs, Nebraska.

Associate Curatee Henry W. Nichols made a brief trip to the cell fields at Lawrenceville, Illimois, in order to obtain data, shetches and photographs for use in constructing a model of an oil well for exhibition at the Museum. Through the kindness of Dr. M. M. Leighton, Chief of the Illimois State Geological Survey, Mr. E. R. Frits of the Survey, who was thoroughly familiar with the field, was detailed to accompany Mr. Nichols and assist him in securing data. A number of the important wells in the district were visited, and about thirty photographs and many sketches showing details of the machinery and other features were made, all of which will be of much assistance in insuring accuracy and instructiveness in the model.

Several series of fossils from those collected by the Captain Marsta Field Paleontological Lipselt, is to S. 4th America have here it was not be hards of specialists for study will downly be a In M. J. S. C. and Climate and Supersity has a constant the study of a series finals in a latter two electricities we write sold and tasks to the translate the earliest of the Makes of the World South of Project of the Control of the South Control of at establish entitle of the establishing a House of the establishing ar are a limit to argument of a secret role of the ready to several especial or substrate or substrated the things to said a to the Misser of the G. R. World of You for less to find a series of the ories of att Atalout and contemporated in of 12 association age is extend fulfielded expending funding fail for example f to the meant of the straining of this group. The Wields I specifi a week at the Museum our ngines, or nother that it there when The tenuts of the student at an easy that we seem the and at e fire

publication by the Museum. The fossil bird remains collected by the second expedition have been placed in the hands of Dr. A. Wetmore of the United States National Museum for study and description, and a report of his conclusions is expected shortly.

Dr. James H. C. Martens, the geologist of the First Rawson–MacMillan Subarctic Expedition, completed his studies of the series of sands which he collected in the regions visited, and his results are now in course of publication by the Museum.

An illustrated lecture on mining in South America was given during the summer at the Museum by Associate Curator Nichols to members and guests of the local section of the American Institute of Mining Engineers. Associate Curator Elmer S. Riggs gave a lecture, during the Museum's spring course, on the fossils of the Valley of Tarija, Bolivia.

The Curator and members of the Staff devoted a not inconsiderable amount of time to answering inquiries received by letter and in visits. Information was furnished in this way to 350 correspondents and sixty visitors. These requests were largely for identification of minerals and fossils, but more general information also was often sought.

ZOLOGY.—The zoological work of the Rawson–MacMillan Subarctic Expedition of Field Museum was largely devoted to fishes and to efforts to obtain exhibition material of the larger mammals, such as seals and polar bears. The expedition reached Nain, Labrador, late in July, 1927, and after a period of unloading, sailed on August 9 for a three weeks' stay in Baffin Land, where a circuit of Frobisher Bay was made. Opportunities for zoological collecting were very limited, and only a few specimens could be collected at this time. After returning to the station, near Nain, all hands were required for the work of building winter quarters. Freezing weather then set in.

Fishing through the ice was begun in January and carried on until about June 1, whenever weather permitted. Nets were set in the bay early in June and tended regularly during that and the following month. Dredging with a small dredge was done in July and August with very satisfactory results.

Meanwhile, hunting and trapping for birds and mammals were carried on, and much time was devoted to hunting seals, a number of which were secured. Polar bears were not found in the vicinity of the station, and members of the expedition were not able to secure

species with the same of the bound of the same of with species as table it as a line of the same is a straight of large, includes our desirable pieces. The same is that if the birds. Animal life on land was exceedingly scarce and difficult to obtain, having been subjected to one of these periodic depletions so well known in neethern latitudes.

The result of the fish collecting was much more satisfactory.

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Zoological control India was continued by Colonel J. C. Fauttoria to a control cape to the second of the control of the control cape and the control of the

Times large and important new roological expeditions were erganized outing the near a country within a period of a few weeks in that the land to be ber

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The experts of a new angle of the object of the general as entirely and Mr. W. Leave V. Economic fits any presented the Martin French of the Martin French of Mr. Kenner of the Section of the Mr. Kenner of the Section of the Section

added to the list of Benefactors. The first division of this expedition is being led by the Roosevelt brothers personally. Accompanying them are Mr. Suvdam Cutting of New York, who will act as photographer, and Mr. Herbert Stevens of London, England, zoological collector. These four men expect to work northward near the Tibetan border in the provinces of Yunnan and Szechuan in southwestern China. This is an exceptionally rugged, mountainous country in which travel is likely to be slow and laborious. Thence, turning southward along the gorges of the Mekong River, the party will descend into northern French Indo-China where it will meet the second division. This second division has the following personnel: Mr. Harold J. Coolidge, Jr., of Pride's Crossing, Massachusetts. mammalogist and division leader; Dr. Josselvn Van Tvne, of Ann Arbor, Michigan, ornithologist: Mr. Russell W. Hendee, of Brooklyn, New York, mammalogist and artist; and Dr. Ralph E. Wheeler, of Cambridge. Massachusetts, physician and naturalist. This division will work intensively for some months, mainly in the northern and western parts of the province of Tonkin in northern French Indo-China. Much of this region is wholly unknown zoologically. and it is proposed to make a thorough study of its whole vertebrate fauna.

The two divisions of the party, after meeting in central French Indo-China, will proceed as a body to the province of Cambodia for a collection of large mammals to complete the needs for habitat groups in William V. Kelley Hall. The expedition will remain in the field during the greater part of 1929. It enjoys the cooperation of the Paris Museum of Natural History and the British, French, Chinese and Siamese governments.

The second important zoological expedition which set out in 1928 is the Crane Pacific Expedition of Field Museum, sponsored and accompanied by Mr. Cornelius Crane, who is a son of Mr. Richard T. Crane, Jr., a Trustee and Honorary Member of Field Museum. The expedition is traveling on Mr. Crane's brigantine auxiliary yacht, the Illyria, recently built and especially fitted with laboratory, refrigeration, diving gear, and other equipment for zoological collecting. The party is as follows: Assistant Curator Karl P. Schmidt, of Field Museum, herpetologist and scientific leader; Dr. A. W. Herre, of Stanford University, ichthyologist; Dr. W. L. Moss, of Harvard University, physician and immunologist; Mr. Walter A. Weber, of Field Museum, artist and ornithologist; Mr. Frank C. Wonder, of Field Museum, taxidermist. Three friends of



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ian expedition, has again been most courteous in according privileges and facilities for travel. This is deeply appreciated.

The Department of Zoology had the following publications in press at the close of the year, as the result of research conducted by members of the Staff:

Zoological Series, Catalogue of the Birds of the Americas, Part VI, by C. E. Hellmayr.

A Contribution to the Ornithology of Northeastern Brazil, by C. E. Hellmayr. Leafiet Series No. 10. The Truth About Snake Stories, by Karl P. Schmidt, Leaflet Series No. 11. Frogs and Toads of the Chicago Area, by Karl P. Schmidt.

The Department acknowledges very substantial assistance from Volunteer Assistant Charles Westcott, who has been in full time attendance, and has catalogued 3,676 birds, read and corrected proofs of several lengthy manuscripts, and otherwise aided in carrying on the routine of the Department.

Following the general growth in recent years, the Staff has met with a great increase in miscellaneous routine which has made great inroads upon the time of every member. The demands from the public for information or assistance by letter, by telephone, and in person are vastly greater than formerly. Increased activities in exhibition work, in the conduct of expeditions, and in relations with other Departments of the Museum and with visitors from other museums both American and foreign, all combine to keep the Staff fully occupied.

The following list indicates the various expeditions in the field during 1928:

LOCALITY	Collectors	MATERIAL
KISH, MESOPOTAMIA (Sixth season)	Stephen Langdon L. C. Watelin Henry Field T. K. Penniman René Watelin	Archaeological collections
British Honduras (Two expeditions)	Archaeological collections	
NORTH ARABIAN		
Desert	.Henry Field Eric Schroeder	Archaeological collections
PERU	.A. Weberbauer	Botanical collections
PANAMA	G Proctor Cooper	Botanical collections
NICARAGUA	F. C. Englesing	Botanical collections
Newfoundland	. Sharat K. Roy	Paleontological collections
Abyssinia	Captain Harold A. White Major John Coats C. J. Albrecht George E. Carey, Jr.	Zoological collections

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Leader of expedition named first in each case "Lander, second contingent.

ACCESSIONS

ANTHO POLICE A resource morning and provided during the year to the Department of Anthropology amount to fifty-one. Of these twertish he are to gift eight as the result of expedit, has eight by exchange, and six by purchase. These alvessions are from numers as parts of the world and aggregate a total of about 50,021 of serts. The principal assessments of the year are herewith briefly from consent

The concert is so used by Assestant Curatis Strong as anti-ripoligist of the Raws to MacMolan Subarctic Lapsentian of 1927-28 consists of a me 250 objects from Escationar-han by advices, that is five present day Ealistic carvings and min ements live hundred ethy goes! I jests from the Masnay. It have and some thirty five annett havers capeletons or purts there for

The ar tages group material endra each the main two percetarelatively far apart in the fast read the Latra bit Labour. Tirat, there are a large number of vervian entitle implements including beth the chipped and prested at he techniques. Some spendil . chipped diagnostic posities of transment (talledets) and several

ground-stone ulus, or women's knife-blades, are the most interesting. The second period is that of the earliest Christian missions on the coast (about the year 1770). Bone and ivory harpoon-points, well carved soapstone dishes and lamps, caribou antler implements, and abundant beads or carved ornaments are particularly well represented. In addition there are a number of iron tools and hunting implements of an early type.

A small collection of artifacts from the modern Eskimo serves to bring this representation of ancient Eskimo life up to the present time. The skeletal material from ancient graves will be of great value in determining the physical characteristics of the older people on the coast, and when compared with the large series of modern Eskimo measurements secured by the expedition, will show the modifications that have taken place due to hybridization and changed conditions of life.

The collection from the Naskapi Indians illustrates nearly all phases of the life of these interesting and primitive American hunters. Their clothing is well represented, including their finely painted coats and leggings. Naskapi beadwork, which was obtained in considerable quantities, is remarkable both for its beauty and for the unique character of the designs, which seem to be rather different from the general type of northeastern Indian art. Wooden bows and crossbows, arrows of various types, stabbing spears for killing caribou in the water, and fishing implements, all serve to demonstrate the manner in which the Indians secure a living in their barren environment. The crossbows are of especial interest as not being truly native, but as having been copied from European examples in colonial times.

Skin-dressing tools, native types of knives, well-made snowshoes, toboggans, games of various sorts, and a large number of drawings made by the Naskapi themselves complete the collection. These sketches will be of great interest to the student of Indian art, depicting as they do the life of the people as they themselves see and portray it. On the whole this collection, in conjunction with a similar collection purchased from Dr. Frank G. Speck of Philadelphia, who secured it from the Montagnais of southern Labrador, will give the Museum a very representative exhibit of this culture area.

A small collection of articles of clothing, household utensils, and snowshoes from the Penobscot Indians, Maine, who are closely related to the Naskapi, was purchased also from Dr. Speck, who obtained it as the result of a return you it contiguted of this tribe.

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The area capilities by the expection, proceed to be rule, or objects of shell. Weapons were very rare. One has, which was imported from farther south also was rare to each traced from the conditions for the value of the value of making and was uncombined a much proced by the Marias. The petters obtained by the expectition is of great value in making possible establishment of a sequence of periods in the decomponent of Maya civilization.

Of a Maya actor stone found at Hatriap Cee, a portion inforturately is making but the bud of it now in the Museum shows a very well carried captive, probable the value to be sainteed on the defination of the monument. The Museum had a constant of executing a non-uncent to mark the passage of every line or tensions of executing a non-uncent, it was executed to commence the too code of five years from the opening of the tenth code. A series of each certifiversed glypha is a very good state of preservation given the case that round date It Abac II Un. The position that these appears the long count is 1905/00. There follows a law V Abaco which precarrially represents the presence Katur on any and buffer in position cycle enting date 1900/00. The position of the tension of the formular US AD is

The style of the gryphs appears to require unleasurer date, for they are early curves, but possible at this provisional center art continued to flourish at its highest level long after signs of decadence were making their appearance in other cities. There are now known to have been a series of cities with dated monuments running along the north and south line, which now forms the frontier between British Honduras and Guatemala. In the north are situated Cax Uinic and Benque Viejo, in the center Hatzeap Ceel, and in the south Pusilha, where a series of stelae were discovered during 1927 by a Field Museum expedition.

Through the generosity of Mrs. Chauncey B. Borland of Chicago the Museum obtained one of the most remarkable objects received this year-a fossil turtle of the Miocene period found in Shen-si Province, China. The carapace of the turtle is covered with six delicately traced inscriptions revealing the earliest stage of Chinese script which is identical with that found on the famous oracle bones of Ho-nan. The tortoise, in the estimation of the ancient Chinese, was a divine animal endowed with supernatural qualities and the gift of predicting the future. At a very remote period the shell of the tortoise was one of the chief elements in the art of divination. The shell was scorched over a fire, and the cracks thus arising yielded a picture foreshadowing future events. The oldest forms and examples of Chinese writing are preserved on tortoise-shell fragments containing questions addressed to soothsavers and the answers given. An examination made of the fossil turtle by Assistant Curator Karl P. Schmidt, of the Department of Zoology, showed that it represents an unknown species of the genus Testudo. Thus it has a bearing on three sciences—paleontology, zoology, and archaeology,

Important additions were made during the year to the Museum's collection of ancient Chinese jades. Mrs. William H. Moore of New York (formerly of Chicago) contributed twelve choice archaic pieces of the Chou and Han periods: an outstanding mace of dark gray jade clouded with brown and russet spots and decorated with the seven stars of the dipper; a ceremonial axe-head of yellow jade engraved alike on both sides with delicate tracings of animals and geometric designs; another axe-head of light gray and green translucent jade, of very early date; a unique disk of green and brown jade decorated on both sides with different designs derived from the ornamentation of archaic bronzes; two green jade dragons, one from the late Wu Ta-ch'eng's renowned collection; a semicircular double dragon; a gray jade carving of a tiger; three jade carvings of fishes of naturalistic style, and a very rare spike of brown and yellow jade in the form of a pyramid.

Note the area' of one if a care part of another gift to eved during the year. They in the all ago there plaque exhibiting a dragon-late agreement arise, a tight relief an utiliana a liarge gray disk to rate initi oteria of har is at his tall tengris. Hitrothere proceed that he' have will use used within a rat post autirior and stars of the Hat Tungunt I sing which temperaturely a paque fast. Test into the figure of a first of the first period a decreated sa mit to the Hanger of a three and her the Sung permit unteresting as the foregular in tage of the later south to they and a part of expurite write alle tracers of the Park damastic In william to the pale of the transfer of the same of r distribution imperial eremonial sour be made for the temperat La Tea et Peringus tre presentation Carlien per claim assiste e tring the state of this got at the entry or all a game, The other discussions the teams a parent transport subscript. is 'n . I' e American Friends of China, Mrs. George T. Smith, Miss Kate S. Buckingham, and Messra. Martin A. Ryerson, John Jan Atlett, Charles L. Consequent Henry M. Wolf and Martin C. Schwab, all of Chicago

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A very fire and place of the ration blooms that a formerly the property of a first washing to the Walter Field Company, Change,

presented a piece of tapa from Samoa, decorated with geometric designs in the center and a vine painted on the border. An extraordinary drum from the Marquesas Islands was secured through an exchange with the American Museum of Natural History, New York. The drum is carved out of a tree trunk, and is more than seven feet high. Such drums were kept in temples and beaten to summon the tribesmen to a religious gathering at which the principal ceremony frequently was the offering of human sacrifices to the gods. The drummer had to stand on a stone platform about four feet high to reach the drum-head, which is made from the tightly stretched skin of a giant ray. The skin was beaten with the drummer's knuckles. These drums are scarce now; it is believed that not more than four are in existence.

A group of twenty-one valuable objects, chiefly from Polynesia, was received as an exchange with the Department of Ceramics and Ethnography of the British Museum, London. The collection includes some very rare articles made by the ancient Maori of New Zealand; a finely carved model of an old type canoe; a wooden box, decorated with beautiful carved designs, for preserving feathers; a kilt, and three cloaks of so-called New Zealand flax; two old wooden clubs from Fiji; a paddle club from the Marquesas; a spear-shaped club from the Hervey Islands; samples of tapa from Hawaii and Fotuna, and eight stone celts from Ashanti, West Africa.

The Museum's ethnological collections from Australia have been augmented by a welcome gift from Mrs. J. F. Connelly of Perth, West Australia, comprising four emu-feather plumes used by the aborigines for personal ornament; two bone pins worn through the septum of the nose; two bone implements for making fine serrations round the edges of stone spear-heads, and a pointing bone. The last-named is exceptionally interesting because of its use in magical ceremonies. The medicine-man, or any other person wishing to injure an enemy, repairs to the bush, taking with him this long slender bone. The instrument is held in the direction of the enemy's camp, while a curse is uttered.

A pair of so-called kurdaitcha shoes, purchased from Mrs. Connelly, consists of bundles of emu feathers bound with human hair. Yet, in spite of their harmless appearance, they were in time past part of the medicine-man's equipment when tracking a foe. The shoes are the same shape at each end, a fact which may render the medicine-man safe from detection. There would be difficulty in determining direction from such tracks, and the spoor could not



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shells, and small pebbles. This was excavated in the cave of La Souquette near Les Eyzies in the Dordogne region of France.

The entire range of the paleolithic periods is very well represented by the collection of fint implements resulting from this expedition, which include a series of fine "laurel-leaf" (Solutrian) blades. Wherever possible, a complete collection of flint and bone implements and casts of animal remains found in one limited locality were purchased, so as to render the collections of greater scientific value and interest. The majority of the rarest prehistoric objects of France are in the Musée National at St. Germain-en-Laye near Paris; casts of most of these were purchased. Further, casts of all the remains of paleolithic man found throughout the world were obtained through Damon and Company in London and Dr. F. Krantz of Bonn, Germany. A set of casts of a frieze of animals found at Le Roc in the Charente by Dr. Henri Martin of Paris was also acquired.

Exchanges made during the year with the Logan Museum, Beloit, Wisconsin, and Mr. Harry G. Beasley of London, England, have resulted in the acquisition of two small but valuable collections from Africa.

The ethnological objects received from the Logan Museum were collected by Professor George L. Collie and his staff in southern Algeria and the Hoggar Mountains, a somewhat inaccessible region in the northern Sahara. This collection of sixty-eight objects relates to the culture of the Tuaregs, a tribe engaged chiefly in breeding camels and carrying on the caravan trade of the Sahara. In this collection the most valuable object is a large shield of oryx hide, ornamented with ancient and intricate designs. Several locks of brass and wood are of a pattern traceable to ancient Egypt. Baskets of the coiled type, richly ornamented leather goods, and a pottery drum are welcome acquisitions. A small group of personal ornaments includes a stone armlet of ancient pattern, valuable alike for its antiquity and excellent workmanship.

From the collections of Mr. Beasley, Field Museum acquired a set of 122 small brass weights from Ashanti on the west coast of Africa. These were used in time past for weighing gold dust in the presence of the king. They are cast by the lost-wax process, and their forms are interesting in relation to the plant and animal life of the country. Other objects of interest in this collection are a well-carved wooden mask from the Yoruba and a peculiar human fetish figure from Gaboon near the mouth of the Congo. From the

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Dr. James Walter of Chrone presented three articles of clothing were to see of distinction among the blake up people of West Africa. The two caps are constitutions of rather palm leaf. Mr. caps as an in waven from fine fibers of ratherpalm leaf. Mr. Artica for as a constitution of the plaining of fine olver and copper are made by that it's

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An exchange with the South African Museum of Cape Town years a collection of archaeological material which rounds out the Museum of South Africa page 11 declared of the southway period of Laboratoria field of the South Africa as we has been contained by the first the southway to the first the southway to the first the southway to the first the first the first the first that the first the first that the first

By purchase from Dr. Neville Jones, Bulawayo, Rhodesia, who as the force at a grant stay on the stone age of South Africa, there was thursely a set of the proper stay of the stone age. South Africa proper short field as to be stone as the stone age. South Africa proper short field as to be stone as the stone as the

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from the Barotse tribe. It includes baskets, wood-carvings, weapons. pottery, musical instruments, and a good series of fur cloaks made from the skins of various animals, previously lacking in the Museum. Five of these robes have been placed on exhibition. Seven Zulu tobacco-pipes of types not previously in the Museum were given by Dr. Ralph Linton.

In addition to the material accessioned last year, about 1.500 objects from the Bara, Tanala, Betsileo, and Imerina tribes of Madagascar were received this year from the Captain Marshall Field Expedition to Madagascar in charge of Dr. Linton. Especially noteworthy are fine wood carvings and brass castings from the Bara and an unusually complete Tanala collection illustrating practically all known types of artifacts produced by this tribe. Three large iron lamps, one of these the property of the last Betsileo king; a ceremonial axe. emblem of royalty among the Betsileo; two royal robes of silk heavily beaded, the only ones which have ever left the island; about fifty other robes of wild silk and cotton, and four magnificent carved panels are the outstanding features of the Betsileo collection. The Imerina material consists of a number of fine blankets of domestic silk and a huge blanket of wild silk woven by an Imerina princess to be used as her shroud, one of the best examples of Imerina weaving extant. Most of this Imerina material has been placed on exhibition.

BOTANY.—The number of specimens received by the Department of Botany in 1928 was 21,864, an increase of 6,946 over the specimens reported for 1927. The number of accessions was 241. Of the specimens mentioned, 1,930 were additions to the economic collections, consisting in large part of wood samples. The remainder. amounting to 19,934 specimens, were herbarium specimens.

Of the herbarium specimens, 2,900 were presented by friends of the Museum; 11,155 were received in exchange from various institutions and individuals; 3.900 were purchased, and nearly 2.000 were acquired as the result of Museum expeditions.

Professor Samuel J. Record, Research Associate in Wood Technology for the Museum, and professor at the Yale School of Forestry, has continued to contribute herbarium material of tropical American timber trees, and during 1928 forwarded 371 specimens, chiefly from Central America. Particularly worthy of mention among these was a collection made on the east coast of Nicaragua by Mr. F. C. Englesing, of the Bragmans Bluff Lumber Company, which has

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Mr. L. R. Levis of the Lange Nature History Survey Villaga, Historical process test to a specimental mostly of words of parts. From In Martia Ar ers to f South Bend Indiana, there were recoved 200 specimens or externor Ellipsis and Multipart, and from Miss M. R. Jacks of Loverside, Purchastotree plants guttered at Hosse (, <u>A</u>, c)

Mass Mary Evenier of Crown Ports Indiana, presented specineeds of several race plants of the Danes region of Lane and Poster Courties from a protection a rare subjets of aster a dia new te tre colour Julyerus com a Assirt to De C. E. Hammer of the Department of Longuetine specimens of tate of a sere terescent. Mass he is V. Harris, I Out Park. I see that hope where of several areas a parts of the comthey are as in any the course they have they all the transfer out to in containing the same report that the same of the

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which is almost unknown botanically. Mr. Charles F. Henderson of Berkeley, California, presented an interesting series of fifty-seven plants, mostly from Mexico. These were collected as the host-plants of insects under study by the donor, and include several rare members of the pigweed family.

As a contribution to the little-known flora of British Honduras it was particularly gratifying to receive from Dr. J. S. Karling of Honey Camp, Orange Walk, British Honduras, seventy-six specimens collected in the northern part of the colony. Mr. C. R. Lundell, of the Institute for Plant Research in Tropical America, Washington, D. C., forwarded 144 specimens from the same country, among them numerous latex-yielding plants. Dr. Salvador Calderón, of the Laboratories of the Department of Agriculture of Salvador, presented 110 specimens of Salvadorean plants, several of which were additions to the flora of that republic as published a few years ago by Dr. Calderón and Associate Curator Standlev.

Professor L. A. Kenoyer of Kalamazoo, Michigan, sent to the Museum thirty-five specimens and photographs of plants of Barro Colorado Island, Canal Zone, for use in the preparation of a second list of the plants of this island by Professor Kenoyer and Associate Curator Standley, which is being published by Field Museum. Eight specimens of rare plants were received from Mr. James Zetek of Ancon, Canal Zone. The Department of Agriculture of Guatemala presented twenty-eight specimens of plants from the high mountains of that country. Mr. C. H. Lankester sent from Costa Rica eleven specimens of mosses, which have been determined through the courtesy of Mr. Edwin B. Bartram of Bushkill, Pennsylvania.

From Peru were received collections which will be useful for the flora of that country now being written by Assistant Curator J. Francis Macbride. Professor Fortunato L. Herrera, of Cuzco, Peru, well-known student of the Peruvian flora, presented 126 specimens from the wet tropical mountains, for use in the preparation of this work, and Mr. Oscar Haught of Negritos, Peru, gave forty-four interesting plants from the arid region of that locality. Both of these collections are particularly welcome because they come from localities not represented otherwise in the Museum's Peruvian herbarium.

Dr. Earl E. Sherff, of Chicago, as in previous years, has donated to the Herbarium valuable material, and in the past year contributed eighty-five sheets, mostly species of *Bidens*, a group of Com-

pension of which he is preparing a monographic account. Professor A O Agreed of all had been seed a described series of 151 specimens illustrating the times of Utah. From the resentily call of Witte Memorial Museum, of San Antonio, Texas, through the courtesy of Mrs. Files, Schulz Quillin, a comprehensive collection of 466 Texas plants, including material of two new archive our year.

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From the Royal Botanic Gardens, Kew, England, there was received in exchange an exceptionally valuable set of Colombian plants—647 specimens—collected many years ago by F. C. Lehmann. This collection, along with other recent ones, has added to the Herbarium many South American species not represented previously.

The California Academy of Sciences, through Miss Alice Eastwood, forwarded as an exchange a desirable lot of 415 specimens, mostly from Lower California. The Gray Herbarium, of Harvard University, through Dr. B. L. Robinson, Director, with customary generosity, transmitted 659 plants, nearly all from Europe. Brother Marie-Victorin, of Montreal, in continuation of former sendings, forwarded eighty-six specimens collected by himself in the still little-known districts of eastern Canada.

From the Universitetets Botaniske Museum of Copenhagen, through Dr. Carl Christensen, there was received a particularly valuable series of 276 specimens, consisting of plants collected in Venezuela by Eggers and Warming, and of the classic collections obtained nearly one hundred years ago in Mexico and Central America by Liebmann and Oersted, among them a quantity of invaluable type material. From the Hungarian National Museum were received in exchange one hundred specimens, beautifully prepared and informatively labeled, of the exsiccatae issued by that institution to illustrate the flora of Hungary. The Botanic Station of Brignoles, France, sent ten specimens and packets of seeds. The latter have been transmitted by Field Museum to the Morton Arboretum, Lisle, Illinois, for propagation.

The Museum has been able to secure by purchase several important and extremely useful plant collections from tropical America, and these, together with others obtained by gift and exchange, have made a very large contribution to the representation of tropical American flora in the Herbarium.

Among the more important purchases were 298 plants collected in Argentina by Mr. S. Venturi, of Tucuman, Argentina, among which are many species new to the Herbarium. One of the most successful collectors of South America, Dr. Otto Buchtien, of La Paz, Bolivia, collected 300 specimens in Bolivia which have added appreciably to the Museum's extensive representation of the Bolivian flora. Another Bolivian collection purchased consisted of 300 plants collected in the Province of Santa Cruz by Mr. Jose Steinbach of Buenavista, Bolivia. Coming from a province previously unexplored.



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From Professor Carl Equipped Line Asymmetrics on one put has element in the Equipped State of the monocondition of the province of the province of the province of the province of the specific of the specifi

Mr. G. Proctor Cooper, of the Captain Marshall Field Expedition to Panama, 1928, collected about 1,100 specimens of Panama plants, which are described more fully in preceding pages. Besides the set of these plants deposited in the Museum Herbarium there remains a quantity of duplicates for distribution to other institutions.

During the past year Mr. C. S. Sewall and Assistant Curator A. C. Weed, of the Rawson-MacMillan Subarctic Expedition of Field Museum, obtained 678 specimens of plants, mostly from Labrador. This collection, supplemented by an equally large number obtained in 1926 and 1927, gives to the Herbarium a substantial representation from this region.

It is gratifying to note the interest evinced by the lumber and wood-working industries, as well as by various individuals and other institutions, in the wood collections of the Museum, as evidenced by the substantial donations of valuable specimens during the year.

The Yale University School of Forestry donated a collection consisting of 1,600 authentically identified hand-specimens of tropical woods which augments the reference collection considerably. The Museum reciprocated by sending exchange shipments for study and other purposes.

The Government Forest Service of Burma, India, forwarded a shipment composed of 178 identified wood samples of that country.

The Jacob Bayer Lumber Company of New York City donated a board of black cherry.

Samples of the well-known koa wood, in addition to the wooden parts of a ukelele and a finished instrument, were presented by the Hawaiian Mahogany Company of Hawaii.

Twenty-nine boards and planks of important commercial woods from various tropical countries were presented by the C. H. Pearson and Son Hardwood Company, New York City, to be placed on exhibition.

A collection composed of 260 hand-specimens of tropical woods was secured from the Panama region by Mr. G. Proctor Cooper, who undertook the exploration of certain districts of that area in cooperation with the Museum. In addition, a log of the rare and highly-colored "bloodwood cacique" was obtained for exhibition purposes.

A board of Honduras rosewood was received from J. C. Deagan, Incorporated, Chicago, manufacturers of chimes and xylophones. The United Fruit Company of Boston donated a board of similar wood

A past of Perussian of garden content of the temper hurred, president of the laguna Managardan of the temper of the table of the fact of t

Mr. W. E. Lets, of High and Early of the Mose on Against demonstrated to a cheeser in the study of woods by augmenting the reference collection with several namples of foreign woods.

Through Professor Record a very interesting exhibit of the wood and latex of the remarkable Guatemala cow-tree, was received. This particular tree, Cower guatematicus: Standley, is limited in its district. To the Plante Plant is district. The topic of the plante Plant is district. The topic of the plante Plant is district. The common in the bark a creamy white sap, resembling milk in appearance, enades, and when allowed to dry it becomes sticky. The matives, who are familiar with this latex, use it occasionally like cream in codes, or combine it with supar to make a sweetmeat.

Cones of white june were presented by the Botany Department of Yare 1: cones, and Mr. Huron H. Smith of the Milwaukee P. J. Mass.

The turn of a equations tree constant attagal extrances, used for the force of purposes it South America, was presented to Mr. O. A. Farwe of Paris, Davis at 10 separt. Detroit

A prince bases is a tend agreementage from Paris, in was to exceed to Mr. This was to Suther and, Chinago

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The tree producing this beautiful pinkish wood is *Rhamnus Zeyheri* Sond., of the Buckthorn family (Rhamnaceae), and grows in scrub forests or hot thorn-veld valleys in Zululand and neighboring regions. Ordinarily, it does not exceed twenty feet in height, and has a slender trunk that rarely attains one foot in diameter. The Kaffir name for the wood is "umini," while the Zulus refer to it as "ungoloti."

Because of its scarcity and color, the wood has been highly prized by the Zulus, and under the old tribal custom, still prevailing in the interior districts, the trees were not allowed to be cut. As a symbol of regal authority only the head of the royal house was entitled to carry a stick of "umgoloti," and infringement of this peculiar privilege was punishable by death. History recites that the Zulu king, Dingaan, who was vanquished by the Boers, invariably carried a spear of pink ivory. After his defeat he was put to death with this weapon, at his own request, by his henchmen.

Through the courtesy of Mr. O. F. Phillips of the Bureau of Agricultural Economics, United States Department of Agriculture, a tray of standard barley grains for the United States was supplied for the grain exhibit in Hall 25. The tray includes four samples of two-rowed barley—Hannah, Haunchen, Swanhalz and Chevalier; and eleven samples of six-rowed barley—Manchuria, Oderbrucker, Tenessee winter, Horsford and Gataui which are eastern grown, and Coast, Utah winter, Mariout, Trebi, Nepal and Black hull-less, all of which are grown in the west. It also contains a display of the defects of barley which are of importance as grading factors, such as damaged grains, heat-damaged grains, skinned grains, smut, soil, brome grass, other foreign material and dockage.

Some additions were made to the exhibits of edible oils, edible nuts and dried fruits in Hall 25 by purchase in the local market of fresh specimens of melon seed, a source of edible oil in some parts of the world, and of pistachio and cashew nuts and of litchi fruits

Tubers of the elephant ear were presented by Vaughan's Seed Store of Chicago for use in the exhibit of starchy tubers and starches, and some of the starchy tubers commonly grown in the West Indies, such as yams, tannias and eddois, were supplied by Acting Curator B. E. Dahlgren.

The New York Cocoa Exchange donated samples of the following eight varieties of cacao beans, including the most important commercial beans: Accra from British West Africa; Sanchez from the Dominican Republic, Granada from British West Indies; Suntiam from Dutch Guiana, and varieties from Patiatina, Venesuela, Trimidad, and Batia, 1988.

Twenty title seed of specifical first personal to the Museum by the Charge from the Schurch & William Door peralor. There say, a capitale to the allow the tree hatter, la atere en rese and tel em la companión non personal to the transmission of the contract raves of the control of the control of the the Logranus of the property of the control of the property Form and Change from a new control terrainties, it is the respectively and we have by a sample of other one or got and a second per rule in register. Of the green teas of a marginere are the popular action of the areas. garge alors of great and the control of a control of a three practes. The hands of few orders fear carry the groups of Ces en Irola and Java as we last firm a larger to he into the for any grades lated in descending order flowers make proerange peak peak peak was not broken erante peak at b to bet jet in

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from them, as follows; rope as received at the paper mill, rope cut and dusted, rope cooked, rope half-stock unbleached, rope half-stock bleached, jute bagging as received at the paper mill, jute cut and dusted, jute cooked, jute half-stock bleached, cables insulated with rope paper, insulating paper used for winding on wire, and samples of rag and jute papers.

At times the Department of Botany is asked to analyze samples of paper textiles. This has been done during the past year for the Department of Anthropology and the Division of Printing of the Museum. It is of great value on such occasions to have for comparison not only authentic fiber specimens and paper made from various kinds of authentic materials, but also slides and photo-micrographs of the various fibers of commerce. Nine photo-micrographs were received through the courtesy of the United States Bureau of Standards of Washington as follows: wood fiber of Douglas spruce (Pseudotsuga taxifolia), linen fiber (Linum usitatissimum), cotton fiber (Gossupium sp.), jute fiber (Corchorus capsularis), hemp fiber (Cannabis sativa), sweet gum fiber (Liquidambar sturaciflua), paper mulberry fiber (Broussonetia papyrifera), aspen wood fiber (Populus tremulaides), and rice straw fiber (Oruza sativa). Thirty microscope slides of commercial fibers, mounted by Mr. Edwin Sutermeister of Westbrook, Maine, were acquired by purchase, namely: pineapple (Ananas sativa), oat straw (Avena sativa), bamboo stalks (Bambusa arundinacea), pita (Agave sp.), ramie (Boehmeria nivea), New Zealand flax (Phormium tenax), bowstring hemp (Sansevieria guineensis), hemp grown in Russia (Cannabis sativa), hemp grown in the United States (Cannabis sativa), corn stalk complete (Zea Mays), sugar cane bagasse (Saccharum officinarum), linen (Linum usitatissimum), raffia (Raphia ruffa), two slides of silver leaf poplar (Populus alba), sisal (Agave sisalana), jute (Corchorus capsularis), manila hemp (Musa textilis), paper mulberry (Broussonetia papurifera). esparto grass (Stipa tenacissima), rice straw (Oryza sativa), cotton fiber mercerized without tension (Gossupium sp.), cotton fiber (Gossupium sp.), banana fiber from stalk (Musa sapientum), aspen wood fiber (Populus tremuloides), red oak wood fiber (Quercus. sp.) basswood fiber (Tilia americana), Douglas spruce wood fiber (Pseudotsuga taxifolia), and lodgepole pinewood fiber (Pinus Murrayana).

Dr. Salvador Calderón of San Salvador sent to the Museum a sample of the fiber of the palma de sombrero (Inodes sp.) of his

native country. Mr. G. Proctor Cooper of Yale University donated a bag made of the fiber of pita floya. Again sp.:

During the period under review a number of additional cornpredicts were received as gifts from the Commercial Solventa-Corporation of Terre Haute, Indiana. These consists of the following specimens of substances obtained from our kerticles com germ mean with fight of the work of the solvent from the followdituities that a let site and the solvent from the first ways of these and be to also in the constitution of the ways served it is the time asset to the first and the solvent from the solvent for ways waste predicts may be put.

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The Department of Botany obtained during the year a number of ease set pt tographs for one or montracing out to a few hardfer lattest as be und for put out to Some of these base been secured by put have placed as piles.

The system of the sources, of Mr. Charles Atales of the second of the stress Williams. It of position Coloring the feet of the Museum with life three produping the coloradary barcestrature and preparation of the Second of the the deferred countries of the word. Mr. After Plants of Coloradary of the war as photographs perfecting the Coloradary of the Williams. Mr. W. and Studen of the United States Impacts on the Agriculture of coloradary of the Coloradary of

Some interesting small leaves, put left on their confidence of crange, were presented to the Museum by Philosoph Guelland Parama of the Visioerative of Catania Sharin

File Levil — The Department of the system of the system on the fire several before a forest to the sum of the state of the system of the syste

late husband, numbers 3,240 specimens, representing more than four hundred mineral species and varieties, or most of the important species in the entire range of minerals. Mr. Higginson's interest in minerals was aroused in early life through his studies under the elder Agassiz, and collecting was continued by him and Mrs. Higginson during the remainder of his life. Having been gathered during a long period, the collection contains many specimens from localities now exhausted. Minerals from these older localities were sometimes given names differing from those now in use, and the specimens from these localities now serve as paratypes of these varieties. All the specimens, when received, were carefully labeled as to species and localities. While many of the specimens are not of large size, there are plenty suitable to make a good display for exhibition. Suites of especial importance are those of tourmalines from Pierrepont, New York, pyroxenes from St. Lawrence County. New York; the series of micas and hydromicas, beryls and many other silicates from New England localities now exhausted, and specimens of gold from twenty localities, chiefly in California.

Mr. William J. Chalmers generously continued his interest in the collection of crystallized minerals, and presented to it forty-three choice specimens. These included excellent specimens of South African dioptase and cerussite, rare crystals of pyrrhotite and realgar from Roumania, and many specimens from European localities which had been held in early collections and had just become available. Mr. Chalmers also contributed a brilliant specimen of precious opal to the gem collection, and an interesting series of photographs, made many years ago, illustrating mining and other activities in Japan.

Mr. Richard T. Crane, Jr., made some notable contributions to the gem collections in Harlow N. Higinbotham Hall. Foremost among these is a carving of rose quartz in the form of a large bowl, eighteen inches in diameter and six inches in height, wrought from a single piece of the mineral of gem quality. The walls of the bowl are cut to such thinness (less than one-half of an inch) that they display to a marked degree the rare tints and opalescence of the mineral. Three emeralds, having a total weight of twenty-six carats, cut from gems obtained at Bom Jesus dos Meiras, Bahia, Brazil, were also included in Mr. Crane's contribution. These give an excellent representation of the cut emeralds of this locality, from which four large crystals had been collected by the Curator in 1923. A dish of vesuvianite of the variety known as California jade, carved by an



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American lapidist, an unusual specimen of agate, and a polished alab of green aventumne from India, are other additions contributed by Mr. Crace

Mr. Jose Barrell Land Strategic Coll March Varia Arrive Paper to a presented two sayers to be a lower law of the Siberian mann of h which to produced this expedition. The tusks are remaining the second of the one reportally in the state of the second se tip. This tust, which has a length of ten for also remarkable for showing a double curve, an unusual feature in such tushs, and for the cleary color of the tip, which contracts with the yellowish has of the re-a-

Land and a second of the secon * " s. Stanley i e " is of interest as demonstrating the existence f : animal in the southern United States at an earlier time.

It's Illine's state Museum contributed, through the courtesy of Dr. A. R. Crook, Chief, a three pound specimen bordered with crust, of the only meteorite ever known to have fallen in the state of Illinois. This specimen was part of the forty-six pound individual which fell at Tilden, Randolph County, Illinois, July 13, 1927. The ster of all as that of the proof of the reference and built a Mariet and to person only the books and built ment. ear and say to be terminated to the same museum presented also a cast of the forty-ax pound individual which adds to the completeness of the representation of this fall

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Eleven specimens of potash salts from Texas and New Mexico, which were presented by the United States Geological Survey through Director George O. Smith, are of importance as indicating possible resources of potash of unusual value in the United States.

A number of valuable specimens of minerals and fossils were received by exchange. From the Eastern Washington Public Museum at Spokane, Washington, through Mr. C. O. Fernquist of that museum, there were received, by exchange, twenty-five specimens of the interesting hyalite, opal, sphaerosiderite, et cetera, that are obtained from cavities in the volcanic rocks about Spokane, and are peculiar to that region. The fossils comprise chiefly well-preserved leaves and other plant remains of the Miocene age, which also occur in the Spokane region. Both the fossils and the minerals when received, had all been carefully identified, prepared and labeled.

From Professor H. H. Nininger there was received, by exchange, a full-sized section, weighing seventy grams, of the Ballinger, Texas, iron meteorite, and a full-sized section, weighing 886 grams, of the Mount Tabby, Duchesne County, Utah, iron meteorite. The latter is remarkable for the unusual beauty of its etching figures and for its content of nodules of an anomalous iron sulphide.

Exchange with the Paterson Museum of Paterson, New Jersey, through Mr. James F. Morton, Curator of that museum, added to the collection in Field Museum fourteen specimens of the minerals which occur in the trap rocks about Paterson. Several of these specimens are of large size and showy aspect.

A fairly complete skeleton of *Oreodon* from Nebraska, and a good skull and jaws of *Poebrotherium* from Wyoming, were obtained by exchange with the University of Chicago. They give the Museum a more complete representation of these fossil mammals than had been possessed before.

An important addition by purchase was an exceedingly well-prepared slab from the fossil beds at Holzmaden, Württemberg, showing a complete skeleton of the crocodile-like animal, Steneosaurus. This slab is two by eight feet in size, and shows practically all parts of the skeleton, preserved in a natural manner. The animal was a crocodile-like reptile characterized by a long, slender head with numerous teeth, and having numerous, bony, deeply pitted plates covering part of the body.

Two iron meteorites were added to the meteorite collection by purchase. The largest of these came from Gladstone, Queensland,

 Oklahoma frogs from Miss E. R. Force, of Tulsa, Oklahoma; seventeen German reptiles from Mr. C. F. Gronemann, of Elgin, Illinois, and 176 specimens from Wisconsin collected and presented by Mr. F. J. W. Schmidt, of Stanley. Wisconsin.

No extensive gifts of fishes were received, but two especially fine specimens of North American species were presented. These were a large lake trout from Mr. E. C. Vacin of Chicago, and a specimen of the inconnu, Stenodus mackenzii, from the Booth Fisheries Company of Chicago.

The number of insects accessioned was 2,853 of which 2,173 were presented by Associate Curator W. J. Gerhard, being specimens collected over a number of years during vacation periods in Illinois and Indiana. Certain large and desirable insects to the number of fifty-four were received as a gift from Señor E. Jacy Monteira, Rio de Janeiro, Brazil. Local insects donated include ninety-eight specimens from Mr. Bryan Patterson, Chicago, and fifty-two from Mr. A. B. Wolcott of Downer's Grove, Illinois.

The most extensive zoological accessions of the year were those received from the Rawson-MacMillan Subarctic Expedition of Field Museum, which added 4,433 specimens to the collections. Of these, 2,711 are insects and other invertebrates, while 1,500 are fishes with which are important and valuable colored sketches made from fresh or living material. Mammals to the number of 118 were obtained, and eighty-eight birds and eggs, collections in these groups being relatively small, owing to very unfavorable conditions.

DEPARTMENTAL CATALOGUING, INVENTORYING AND LABELING

ANTHROPOLOGY.—The number of accessions in the Department of Anthropology during the year was fifty-one of which thirty-two have been entered. Eight accessions from previous years were also entered.

The work of cataloguing has been continued as usual during the current year, the number of catalogue cards prepared totaling 5,825. The total number of catalogue cards entered from the opening of the first volume is 181,159.

The 5,825 cards written during 1928 for accessions received during the year or in previous years are distributed geographically as follows: North American archaeology and ethnology, 93; Mexican, Central and South American archaeology and ethnology, 641;

archaeology and ethnology of thina Japan and Korea 235, ethnology of Philippines 11. Processar ethnology, II. Melaneman ethnology, I. Australian ethnology, II. Melaneman ethnology, I. Australian ethnology, II. Melaneman ethnology, III. Sprinar archaeology, Or ethnology of Turkey 8. Of these earlies in that have been entered in the inventory basels which now number first one countered in the inventory basels which now number first one countered in the inventory basels which now number first one countered in the inventory occurs cards prepared for accessions received previous to 1928 were entered making a total of 5,832 cards entered.

A total of 8.046 labels for use in exhibition cases were prepared and placed during the year. These labels are distributed as follows: archaeology of Fayes, 570; ethnology of Africa, 1,714; ethnology of Malaysia, 3,026; archaeology of Meases and Mayas, 77; ethnology of South America, 160; ethnology of the Nasiana, 165; archaeology of China and Tibet, 148; ethnology of Melarcou. 8

To the Department's albums 1,667 photographs were added

BOTAN1 — During the year entries made in the catalogue of the Herbanum amounted to 9,625, bringing the total mounted sheets to 580,357.

Labels were written for about 13,000 specimens of Honduras plants, for several thousand current accessions, and for duplicates now ready for distribution.

All the wood samples in the reference collection, numbering close to 7,000 specimens, are now labeled and arranged in a systematic order, as outlined in last year's Report. This enables any particular specimen to be located with ease.

For the classified index of the specimens in the economic collections several thousand new cards were written and filed. A large part of the material in the economic reference and storage collections, butherto identified only by numbers referring to accession catalogue entries, has been supplied with specimen labels and has been card indexed during the year. This work was started years ago and has been carried on almost continuously since February, 1925, by Assistant Curator James B. McNair and Mr. Llewelyn Williams, Assistant in Wood Technology. This organization of the economic collections is now practically completed, and the result is an orderly arrangement of the domaic material, with a finding index to material which cannot be filed in the Herbarium.

Descriptive labels were written for an new installations in the exhibition halls. Diagrams at wing chemical compassion, and

maps showing distribution were prepared for various economic exhibits.

The filing, as a card index, of the labels in the exhibition halls has been continued.

Several thousand index cards to agricultural literature have been received from the Institut Colonial de Marseille. These have been classified and filed.

GEOLOGY.—The total number of specimens catalogued during the year was 4,575, making a total of 184,472 now recorded. Of the additions, the largest number were from the mineral collection presented by Mrs. Charles M. Higginson, which amounted to 3,240 specimens. Other additions of some magnitude were 384 specimens of fossil vertebrates and invertebrates from the collections of the Captain Marshall Field Paleontological Expeditions to South America; 241 specimens of Illinois fossil plants, invertebrates et cetera, presented by Mr. Bryan Patterson; 215 specimens of crystallized minerals and photographs presented by Mr. W. J. Chalmers; 118 specimens and photographs presented by Dr. O. C. Farrington, and 72 specimens of minerals and fossils received by exchange from the Eastern Washington Public Museum.

Some special exhibits and series were provided with labels of the latest type during the year. These included the exhibit of Baffin Land and Newfoundland fossils and minerals in Stanley Field Hall, and in Ernest R. Graham Hall seven of the Knight murals; a case of mounted tablets of invertebrate fossils, and a case each of fossil sponges, Jurassic invertebrates, Jurassic ammonites, fossil crinoids andmo dels of dinosaurs, Miocene horses and rhinoceroses, and Minooka (Illinois) Mastodons. Typewritten labels have been provided in Graham Hall for a case each of South American fossils, Mongolian fossils and fossil fishes. In Hall 36 the case of pigments has been supplied with typewritten descriptive labels.

Copy for a total of 3,979 labels was sent to the printer during the year; 704 printed labels were received. Typewritten labels for exhibited series made during the year numbered 379. Typewritten labels of the style used in the study collections were also made for all the specimens of the Charles M. Higginson mineral collection.

For Ernest R. Graham Hall, copy was prepared which indicates the place on the geological scale of the specimens contained in each case. These labels include lists of the characteristic fossils of the prological subdivisions represented, and the families to which the specimens belong. Common names of the forms represented are used as far as possible

Mounting of photographic pentia in the Department's albums kept pare until their receipt during the year, and a total of 760 prints was it as added. Typewritten labels were provided for all of these of the points, 312 represent subjects for geological pasteards which had been selected during the year

Latint .- Regular entries in the sonlogical catalogues were r ade for 6,000 specimens. These were distributed as follows: mainr als 1 840 1 mis 4,036; reptiles, 198; skeletons, 14; insects, 9

Specimens of man man were numbered as catalogued, and Museum ales were written and attached to 501 skins and 300 sau is a 'c seu is of 2,400 man mals were numbered. Special labels have been you ded for the street skins of large mammals, and the writing of these labels has begun. A card index has been prepared fir these large as to which with a few other entries, adds 340 cands to the general interest the purposance of their Aconsiderable burnber of goods labels has been placed on the drawers of the heal storage cases for manimals at 1 timbs

Onity to the absence of Assistant Curator Alfred C. Weed in the field to calanguing was done in the Division of Fisher. The catalogue got the Disassit of Replices is hearly abreast of the accesa. Oa, as to expectal effort was made there and only 100 entries appear

Est titled labes were prepared and installed as follows that: totals 56 hords, 92 reptiles 49 history, 62. Copy for exhibition labels. including 681 for birds and 418 for insects, was prepared.

In the Department's photographic albums, 1,208 prints were mounted during the year.

The state of the catalogues at the end of the year is as follows:

	It under of meter because	Total of cotros to loss 31,1920	Datine Juning 1909	Tunal of combo weather
Department of Anthropology	45	101,119	2067	162,433
Department of Botany	63	583,107	20,000	15,559
Denastment of Geology	20	104,497	4,575	0,915
Department of Zonicy;	6.6	140,090	6,011	40,646
Labrary	3.6	108,100	1,756	200,400

INSTALLATIONS AND REARRANGEMENTS

ANTHEDROISET. The most notable event of the year was the opening to the public of June 1 of air new exhibition halfs located

on the ground floor. In accordance with this plan all efforts during the first part of the year were bent toward completing this task with the best possible results.

A total of sixty-five exhibition cases, including three life-size groups, were installed during the year, located as follows:

Egypt (Hall J)																						
Africa (Hall D)																						2
Madagascar (Hall E).							 			 		 									25
Polynesia (Hall F).				 							 		 			 		 	ì			1
Malaysia (Hall G).		ì	 ì						ĺ	ì		i		i	ì		ì		ì		Ċ	2
Stanley Field Hall.													 									7
Mexico (Hall 8)											 											11
South America (Ha!																						
Tibet (Hall 32)																						
China (Hall 24)																						
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Tota	l.			 							 		 									65

Hall J, devoted to the archaeology of Egypt, has been completely reorganized. Previously Egyptian mummies had been exhibited individually in nineteen special cases which varied considerably in size and hardly permitted a detailed study. These old cases have been discarded, and the mummies and coffins have been aligned in a consecutive chronological order in two built-in cases extending 119 feet along the north wall of the hall. Walking along this case from west to east, the visitor is able to study human mummification and burial in Egypt through a period of 2,500 years, as the coffins on exhibition range in date from the tenth dynasty at about 2300 B.C. to the Roman period of A.D. 200. Encased top-lights make for an even diffusion of light, and variety of exhibits is insured partially by the use of slanting bases, and partially by placing mummy covers with carved portraits erect. Coptic fabrics from graves of early post-Christian centuries hang on the wall as a background. and painted linen shrouds from mummies occupy the end walls. A facsimile of the funerary papyrus of Ani is shown in the upper compartment of this case. A built-in case along the east wall of the hall, sixty-three feet in length, contains tomb-sculptures and frescoes in chronological arrangement, running north to south from the third to the nineteenth dynasty (thirtieth to thirteenth century B.C.). The compartment above this case contains plaster casts of important tomb and temple sculptures, the originals of which are still in place in Egypt.

A reproduction of the famous Rosetta stone is shown in an illuminated wall-case. Six X-ray pictures, made in the Museum's



THE LIBRAGI OF THE UNIVERSITY OF ILLINOIS Division of Roentgenology, of manimum in the collection, actual mile, are exhibited. A binition case, thirty feet long, on the southwest of the half is used for a display of an complete Coptar garmenta in the lower occupartment, and parts of garmenta, tagestries, and embevoderies in the upper one. The statuette of Scimut, the fained architect and statesman of the eighteenth dynasty, has been placed in the center of the builtun case opposite. On a section of the south-coast wall two carried wooden balcony fronts from Caro are well of us to be a case on the legities.

The relation of the Egyptian (Letters is the Letters during Extension).

In the latter part of 1927 there had been prepared thatty-five cases for installation in the then proposed African Hall, which at that time was not ready to receive them. In the period from January to June of this year the exhibits in these cases were completely labeled, and 110 photographs and water-colors were added. Two cases were installed in addition to the thirty-five noted in the last Annual Report. The more important of these is a built-in case on the west wall of the hall, about forty-eight feet long and fifteen feet high. This case contains well selected examples of the woo-iworker's craft from Cameroon, West Africa, such as door-posts and windowfrom an issued in the following of interfer large an experience of place of format. form about a substitute a stuped by the form of league to an in we said bed structed curves. A remarkable head standard flavoides the Europed, specificatifits be as que so far as the Carlothic reg. t. a correct is included in this exhibit. The other case rists on the file contains the expect of each person and if the Zous of South Africa made from the south of the one and 2 4 4 2 4 1 1 1

The arrangement of the thirty-serven African endings are all the carried out of an ethno-group placed basis. The area of the in-best represented as that of Camerson, and exhibits from the region shown on the borth side of the hall our almost one-tail of the entire of the last two the fit hall are three lafe size figures of Can er all the side of the hall shows what parts of the last rescribed in the exhibits force as a small collections for the figure processes of the last two distributions of the Somalia is illustrated in the case, as the last two distributions of the cases are seen as a second of the case of the last two cases displaying fine body seconds in the representations of

West African life in Cameroon, and material from Togoland, the French Sudan, Angola, the Congo, and other parts of Africa.

During the year the collections obtained by the Captain Marshall Field Expedition to Madagascar of 1926-27 were installed in twentyfive cases in the eastern half of Hall E. The native cultures fall into three groups, and this arrangement has been followed in the installation of the hall. Material from the Plateau tribes is shown on the south side of the hall. These tribes-Imerina, Betsileo, Sihanaka, and Tanala— resemble the Malays in physical type and to a lesser degree, in culture. Their arts and industries are well developed. The collections include a great variety of textiles woven from silk of the domesticated silkworm, wild silk, cotton, hemp, raffia, bast and banana fiber. Except in the Imerina tribe, the designs are simple stripes, but show a fine sense for color. Fine mats from the Sihanaka tribe, steatite lamps of the Imerina, ornamental iron lamps of the Betsileo tribe, pottery, and a series of wood carvings are also shown. Attention should be drawn to the oil and water-color paintings made by native artists after European models. Plateau tribes had no pictorial art of any sort prior to their contact with Europeans.

Material from the tribes of the southeast coast of Madagascar is displayed on the north side of the hall. The tribes of that region are more negroid than the Plateau people. They are, for the most part, ignorant of both weaving and pottery. They dress in flexible mats, and a series of these mat costumes, showing the various types, occupies one case. A single tribe, the Betsimisaraka, weave raffia cloths, examples of which are displayed.

The culture of the tribes of the west coast and south of the island is shown in five cases in the northeast corner of the hall. These people are negroid in type and are moderately advanced in all the arts, but their work exhibits strong African affinities. They have also been considerably influenced by Arabs, and certain Sakalava groups are Mohammedans.

The tribes of the south—Antandroy, Mahafaly and Bara—are represented by small general collections illustrating their arts and industries. Their wood carvings and weapons merit special mention.

The Sakalava of the west coast are more fully represented, the exhibits including implements, weapons, jewelry, matting, baskets, and textiles. A fine collection of gold and silver jewelry shown in one case is believed to be the best in existence. The figured raffia cloths displayed in another case are the only ones of their sort in any

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In December a lifewise figure of a populy in the art of making fire was statalled in one of the built-in cases in Hall G. The data for this group were obtained by Dr. F. C. Cole in control - with Em Stilve III Diem Edwilder IV Machaell (ICO) - Die fallen has remaind for Mr Double. Include Pacifics 11 FL Delication. parts on the basis of placewish parts to make a proper Market Parlick Inches Land Land Land Land tries starting to Many formation with the second to the many publications are also to the transfer of the trans with March 1 late a court of the court of the and the transplit a present to the character and nght by term of the least tall of the talk and a term of the least proath the fire that and their general has been part to be some and

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Hall H, containing a total of thirty-five cases representing the ethnology of the Philippines, was thoroughly rearranged. The groups are now assembled along the south side, and other exhibits occupy the north side of the hall.

Two special cases with framework of bronze were constructed in the south corners of Stanley Field Hall. Each of them contains two large ceremonial feather masks from Hansa Bay, northern New Guinea. Two of the masks are nineteen and two are fourteen feet in height. They are placed on life-size casts of figures, modeled in the Department. The masks were formerly shown without these casts in Joseph N. Field Hall.

Exhibits in a case in Stanley Field Hall, which previously contained selected material from Madagascar, were changed twice during the year. The first exhibit consisted of three bamboo screens or blinds secured by Curator Laufer on the Captain Marshall Field Expedition to China in 1923. These blinds were made exclusively for the doors of the palaces of the Manchu emperors in the eighteenth century, are exceedingly rare, and are unique in their technique. They are composed of thin bamboo rods, chiefly of the spotted bamboo, carefully matched as to color, and tied together. Pictures are formed by strips of silk of various colors skillfully wrapped around each single rod, and are identical on both sides.

This exhibit was changed in October to make room for a display of some choice Chinese fabrics, also obtained by Dr. Laufer on the Captain Marshall Field Expedition to China in 1923. A set of three is shown—a table-hanging and two chair-covers which were used in the palaces of the Manchu emperors for the decoration of tables and chairs on ceremonial occasions, especially on New Year's day. They are a marvelous combination of tapestry weave in exquisite colors with gold brocade. These tapestries were manufactured for the imperial court in the K'ang-hi period (1662-1722). An elegantly decorated roll of purple satin brocade, nearly fourteen feet long, wrought in gold threads, likewise made for the palace in Peking, is shown. A green cut velvet panel of the K'en-lung period (1736-95), and one in red velvet containing figures of the god of longevity and the Eight Immortals are in the same case.

In December the Eskimo collection presented by Mr. John Borden, and temporarily shown in Stanley Field Hall, was replaced with a representative series of selected objects secured by Assistant Curator William D. Strong from the Naskapi Indians of northeastern Labrador during the operations of the Rawson-MacMillan

Subarctic Expedition. The exhibit includes utoque painted cirching, beadwork of various sorts, and broad-out and funding implements of the Nashapi. A series of pluntagraphs and original Indian drawings made in their winter hunting can passerie to deput the actual life of the people at the present time.

In another case in Stanies Field His, is arranged a temporary earlief of selected materia, by split back by Assistant Curator J. Eve Thempson from the Caption March all Field Archaeological Expedition to Heritah Homelmas. The earlief to be useful the sculptured after stone referred to on pures 416 and 446 second the pade objects, potterly of three periods, a necessary of situal site is, and pieces of chief and and coral. The earliest potterly in the exception committee of four-legged bows, the feet of which are frequently moded in the shape of a woman's breasts. Two crematory are shown in the case were found in a weal constituted a small being of furnian anders. Other potterly vessels exhibited are desorated with two heads in high relief, one above the other, and are believed to have been used in regional centers have to burn loop at with served the Mayan as increme.

Among a selection of Chilese politery and percentage of the Surgperiod A to 960-1279 , secured to Dr. Laufer, on the Captain Marstal. Field Expeditors to China in 1923, and now itela ed it. Stanley Field Hall, is a fall funeral urt, of celadon which was placed in a grave and held find for the deceased person. The bull shaped cover a surmounted by the figure of a hawk with outspread wit is On the long cylindrical next are represented in high relief the sun combilized to the three-footed raver, and the most combilized he the have togeted by drugs in a mortar. I havern, place at drag deand testime combined with stake are emblematic of the four quanterm, and twelve officials arranged in a conce are intended to preside over the twelve animals that form a cycle of twelve years. Atinteresting feature of this vesse, is that gradually, in the course of hundreds of years, masses of losse, a very five and finally earth. have penetrated through the cracker of the glace and apread beneath. it, forming large yellow and brown par her

One of the finest examples of condition this case is a small distinguished by glazed on both case. A set of sweetness distinguished of the case glaze, at the shape of characteristic petals and a pacetic is which are inserted three torus and as privated by leaf stakes, are also shown. In their efforts in private places of beautiful orders

the Chinese potters took their models from nature. In white and greenish glazes they strove to emulate the colors of jade, as testified by the seal on a bluish gray porcelain bowl, which reads "resembling jade." A tea-pot, a tea-cup, and a bowl of Temmoku ware, decorated with a dark brown glaze interspersed with irregular vellow speckles in imitation of tortoise-shell, are other features of the exhibit. Included also are many exquisite and rare Temmoku bowls, white and light green bowls of Ting-yao and Yin-ts'ing types, hard and soft Chün-vao, and two unusual pillows of Ts'e-chou porcelain.

In A.D. 1108 the town Kü-lu in the southern part of Chi-li Province was submerged by a flood. Excavations made in recent years on the site of this town have brought to light quantities of pottery and furniture. One of these jars, shown in this same case (there are many others in the Museum's collections), has an over-glaze decoration in brown of floral designs arranged in medallions, and is provided with an inscription which yields the date A.D. 1107. The interesting point is that this vessel was made one year prior to the destruction of the town by the flood, and that it is one of the few dated pieces of Sung ceramics.

Eleven reinstalled cases representing the archaeology and ethnology of Mexico and Central America were placed in Hall 8. A remarkable collection of serapes from northern Mexico, previously presented by Messrs, Martin A. Rverson and Homer E. Sargent, was reinstalled in a very effective manner. Other cases comprise Mexican pottery of the Aztec period; painted and incised pottery as well as large stone sculptures from the Valley of Mexico; the culture of the Toltecs and Tlaxcaltecs distinguished by fine necklaces, clay figurines, and masks of obsidian and onyx; and the archaeology of Mexico in the states of Guerrero and Oaxaca, as well as the archaeology of Panama.

One case of material never shown before, comprising gold and copper ornaments, necklaces, and ceremonial stone implements obtained by Dr. J. Alden Mason on the Captain Marshall Field Expedition to Colombia of 1922-23, has been added to Hall 9, which is devoted to the archaeology and ethnology of South America. Seven reinstalled cases in this hall contain the following: clothing and hunting implements of the tribes of the Orinoco Basin in Venezuela and Colombia: objects representing the domestic, religious, and ceremonial life of the tribes of the Northwest Amazon Basin; clothing and weapons of eastern or Amazonian Peru; dress

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and personal ornaments of the tithes of the Grand Call and basilets of the Amazini basil of this

Two cases of Liberar as it ery artifute runtula tures were readstated and placed in Hall 2. Material distratory found to China was respectabled in a six " + 1 case ... I'm items ... a Mat. " a westeam in one of the Blackstone Chance to only uses Ha 24 is now more efficiently at which the addition in a land with the permits completion of the figure with the juctures are head dress adorned with five gilt adver ornaments and silk flowers worn by the Manchu women of Peling. Five fly-whisks of white horsehair and two of cour fiber have been added to one case, and three large writingbrustes to an itter case. A case containing Chinese metal mirrors, statal of last year, was placed at the south end of the hall. A pair, of leatifier a piers decorated with floral designs in colored heads on red ve vet from Annam, presented by Miss Caroline Wicker, Chicago, has been attest to a display of Chinese headwork in Hall 32. In a case e ntaining models of paginas the black background has been charged to a screen of light a cor-

A total of totally seven cases were complete, about during the year. As cases in the hairs on the ground floor were carefully gone over before the opening of these fulls, and the exhibits rearranged or put in order.

In the carpentry section of the Department twenty-four new screens for exhibition cases were constructed to each screens were rebuilt, and 469 small individual shelves were made. In addition 1,785 blocks for labels and 164 pieces of beaverboard for covering the bottoms of cases were cut, and twenty-five wooden bases were made.

Twenty-two picture frames were made for Chinese and Tibetan partitions and firstly severy of these were for not interly associated 241 pt tographa, maps, and large descriptive labors were framed for use in exhibit it cases. Six large walls ups were found to the ground floor.

Eighteen large paper morbé tratiains were made for the display of costumes.

Material is thirty establish to use was possible through the year Bearman persent of posterial was made in an attribute rooms, and their condition, reproved. Material strength the possible was treated as usual, and is to one elect or did to

Identification numbers marked on Mosco, allows during the year totalled II.621

The work of arranging ancient Egyptian and Coptic textiles and mounting them on linen for better preservation has been continued throughout the year. Five large portfolios of beaverboard were made for the safekeeping of the mounted fabrics.

In the modeling section of the Department, four life-size casts for the New Guinea dance-masks were completed. Head and hands were modeled and cast for the figure of a Manchu woman from Peking. A life-size figure of a Semang pygmy making fire was completed. The life-size figure of a Dyak head-hunter has been modeled in clay to be cast in the near future. Several miniature figures were modeled for the Menangkabau village group. Maya casts in Hall 8 were repaired and retouched. Forty Egyptian and Mesopotamian bronzes were treated by means of the electro-chemical process.

In the repair section of the Department six hundred objects were treated, repaired or restored as follows: 113 pieces of Mexican, Maya, Peruvian and Colombian pottery, stone work, and gold; one wooden Japanese statuette; twenty-six Chinese paintings, pottery pieces, silver and stone objects; twenty-seven Tibetan paintings and painted wooden panels; one wooden cup from Formosa; sixteen musical instruments from Java, and one from Hawaii; four strings of Melanesian shell-money; 171 fabrics, sixty-five alabasters, ten pottery jars, five mummies, and three frescoes from Egypt; eleven pieces of pottery from Kish; fifty-one stone implements and one necklace of the French paleolithicon; eighty-five objects from Madagascar, and twenty African wood carvings. The incised lines in the cast of the Rosetta stone from Egypt were whitened to render the inscription clearer and more legible.

The books of the Department Library were vacuum cleaned and rearranged.

BOTANY—So much time was spent during the year in preparation for an ecological group of alpine vegetation, and on restoration of fossil plants for the Carboniferous Forest group, the latter of which is to be a feature of the rearranged Ernest R. Graham Hall in the Department of Geology, that the output of the Stanley Field Plant Reproduction Laboratories for the Hall of Plant Life was greatly reduced.

The most notable addition to the exhibits in the Hall of Plant Life was the reproduction of a cassava plant completed early in the year from material secured by the Marshall Field Brazilian Expedi-



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st in the Tabled Plant Life, a factory team on building count.

Who consider team Charago and reproduced as an illustration of general characters of its group. It has been installed, together

A branch of Central American materials, the secured Horolistas malogans, which with its large for age infers so greatly mappearance from the small-leaved West Ironan or Cuban malogans, was obtained from the Government I opening to Gustier at Port of Spain, Trimilal. The branch has been reproduced in the Sharles Held Laboratories in the Million to be used for a display of various species of malogans, being prepared for temporary exhibition in Sharles Hell Hall and for subsequent put laboratories had only the Hall of Foreign Woods.

alpine plants, destined to firm a part of an emissional collected on the Snow-Europe near Laturese, Wivening

they were collected. They include the Rocky Mountain aster (Erigeron uniflorus), which resembles strongly the common English daisy, the yellow avens (Geum turbinatum) with buttercup-like flowers and rosettes of much divided leaves, the yellow alpine ragwort (Senecio Fremontii), a sedge (Carex sp.), and the bistort (Polygonum bistortoides), a characteristic alpine plant of the dock family.

Among exhibits under way for the Hall of Plant Life may be mentioned a flowering and fruiting plant of the so-called Panama hat palm which, in spite of its name and its palm-like leaves, is not a palm, although it belongs to an allied family.

The reorganization of the storage collections of economic material, and the new record system which has finally been carried to completion during the year, has made it possible to locate and add some desirable material to the existing installations. The case of true peppers, for which the Stanley Field Plant Reproduction Laboratories furnished the model of the pepper vine as related in last year's Report, has thus been completed as far as the Museum's material permits.

New labels have been placed in Hall 29 as well as in the palm collection and among the food products in Hall 25.

An attractive case containing panels of rare and fancy woods from remote parts of the world was placed on exhibition in Stanley Field Hall. The exhibit, which proved of considerable interest to both the public and lumbermen, comprises woods which, due to their valuable qualities such as density, color and figure, are now gaining favor with the American wood-working industries and are being used extensively for various purposes. For example, there is padouk, one of the woods represented in the case, which possesses a brilliant red color and is used mainly for the manufacture of furniture. Another is the well-known commercial wood, lignum-vitae, which is renowned for its great strength and density. These properties, combined with its self-lubricating properties, make it especially adapted for bearings under water. It is used for making bushing-blocks for lining the stern tubes of propeller shafts of steamships. Another kind shown is Honduras rosewood, which is used for making the bars of percussion instruments, xylophones and marimbas, for which purpose it is particularly fitted because of its density and resonance.

The project of reinstalling the wood exhibits in the Hall of North American Woods has been started with the rearrangement of the case allocated to the pignut hickory. The substitution of a Jan 1909 .

Let a recolabel for the black type used heretofore and the rocus, of a reproduction of a branch in place of a photograph of the make the exhibit more attractive.

Under the superiment of American Curation James B. McNast but work was done in installation and rearrangement of the early botatical material.

In Hall 25 exhibits of seeds of the fear farms, exhibit foreigness coaffee, tea, barrier, and exhibit thats were statistical in these exhibits the control of each of the control of

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and Mexico. The adulterants include as diverse articles as peas, chicory, malted barley, wheat, dried prunes, soy beans, dandelion root, and rice.

From 316 specimens of tea available in the Museum's collections thirty-three have been chosen for exhibition. They include representatives of the various grades of tea from Japan, Formosa, China, South Carolina, Ceylon, Jamaica, India and Java. There are shown also brick tea from China and "soluble tea" from Ceylon. The tea exhibit is illustrated by eight photographs showing methods of cultivation and preparation for market in Ceylon. India, and China.

A collection of forty-four of the chief edible nuts of the world has been placed on exhibition. Of these twenty-four are from the eastern and twenty from the western hemisphere. Among the former are displayed coconuts, French chestnuts, almonds, pistachio nuts, longan nuts, litchis, Indian almonds, and English, Chinese, and Japanese walnuts. The American nuts illustrated include pinyon nuts, black and California walnuts, hickory nuts, pecans, chestnuts, acorns, peanuts, cashew nuts, and Brazil nuts.

Through the courtesy of Mr. O. F. Phillips of the Bureau of Agricultural Economics, United States Department of Agriculture, Field Museum has added a tray of barley standards to its exhibit of types illustrating common varieties of grains and grading factors

of the official grain standards of the United States.

In 1928 label copy was written for all new exhibits, 244 labels being required for their explanation.

During the year twenty-five large photographs, representing various economic botanical subjects, have been installed in Hall 25. The enlargements were furnished by the Museum's Division of Photography, and the original prints or negatives were obtained from various sources. These illustrations portray phases of the industries connected with coffee, tea, spices, root crops, sugar, and fruit marketing.

It is a great satisfaction to observe the rapid increase in size and scientific value of the Herbarium. It is composed of more than 580,000 sheets, besides a large reserve of probably 100,000 unmounted specimens, mostly from the Old World, which are awaiting incorporation.

The plant mounter prepared for insertion in the Herbarium, by gluing and strapping, 12,330 specimens, a substantial increase over the number mounted in 1927. He also attended to the fumiga-

tion of all material revenues, and projures to straightly the greater part of the Sherff Herback, his previous to the Mission allocar agree

The Custodian of the Herbanium, who was on leave of absence during part of the year called greet it are to be of a sort and distributed them into the perturbation of a sort and distributed entailing the writing of matrix was force and in teaching to ment in certain groups.

Work of the curatorial staff a constant product of the current material reverses a variable for starts be instributed of the streets, as soon as mounted, into their proper product a constant and terms produced by the current of the Herbarum cases. Because of the expections materials and product for mounting and fasting the specimens of an own product of the thempermaterity in the Herbarum becomes due the size of the expection of the street of the with such prompt distribution, all specimens are quitely and formities accessible for the use of members of the Staff or of outsiders who wait the Herbarum for study purposes. Due to thus reads a called the efficiency with any other large herbarum in the United States.

More than 10 000 mounted sheets, mostly from Central and South America, were added to the Herbarium during the year, thus increasing greatly its permanent value. In the course of the distribution of these plants through the Herbarium hundreds of sheets were determined, and the names of other specimens were corrected Several large collections which had availed naming for many years were determined, at least in part, and placed in the Herbarium where they will be useful for study purposes. In its representation of the these of the West Indies, Mexico, and Central and South America the Herbarium compares favorably with the other large herbarium in the United States, and for certain areas such as Yumata and Peru, the Museum's constitute are ones, and executed essendere.

Girtion). A large part of the time of the Staff of the Department during the year, has been decided to near staff advise and remarkalisated of cases. The latter is no has been required by the change of owner of backgrounds, who is not reconstanted the removal of all the specimens in each case and time requirement after the change of backgrounds was completed. During this remarkalisation opportunity has been taken to had to or rearrange the contents of the cases, wherever the interest and out of the outents could be thus improved. Theseugh cleaning of gase and referred on of the

sashes and other wood of the cases has been carried out in connection with this work. In Ernest R. Graham Hall and in Hall 36, nearly all the cases, and in Hall 34 and Clarence Buckingham Hall, a large number, were reinstalled in this manner during the year.

In Stanley Field Hall one case was installed; in Harlow N. Higinbotham Hall, one: in Systematic Minerals (Hall 34), fourteen cases; in Clarence Buckingham Hall, four; in Petroleums, Clavs et cetera (Hall 36), thirty-six, and in Ernest R. Graham Hall, fortythree, making a total of ninety-nine cases.

In Stanley Field Hall an exhibit of some of the fossils, ores and other geological specimens collected by Assistant Curator Roy in Baffin Land and Newfoundland while with the Rawson-MacMillan Subarctic Expedition of 1927-28 was installed in a single case. From Baffin Land are shown in this case, thirty-nine specimens of fossils of Ordovician age and seven specimens of igneous rocks; from Newfoundland, thirty-six specimens, mostly trilobites, of fossils of Cambrian age, and twenty-five specimens of ores and minerals. Several colored photographs of scenes in Baffin Land and outline maps showing routes followed are included in this exhibit.

The exhibit of ores and minerals of South America collected by Associate Curator Nichols as a member of the Captain Marshall Field Expedition of 1926, which had been previously exhibited in Stanley Field Hall, was removed and distributed among the systematic mineral and ore series in Frederick J. V. Skiff Hall and Hall 34.

In Harlow N. Higinbotham Hall the beautiful rose quartz bowl contributed by Mr. R. T. Crane, Jr., was installed in the case of quartzes, and the cut emeralds, agate and vesuvianite which he presented were installed in their respective groups. Specimens presented by other donors during the year were also added to the exhibits in this hall. In order to give a more orderly arrangement. the exhibit of miscellaneous gems in the hall was exchanged in position with part of the exhibit illustrating folk-lore of gems. Thorough cleaning of the cases was carried out in connection with these changes.

In Hall 34 the work of changing backgrounds and reinstallation begun last year was continued and the work completed during the year for fourteen cases. These included two cases of the Chalmers crystal collection and twelve cases of large mineral specimens. The improvement in the attractiveness and visibility of the exhibits, as as well as in the general appearance of the hall, brought about by

these that get is traduction, in the factor of the set of many persons in a creation and a series of and a series of free specimens have been a destinance of the communication of half of a case of movera scheme to the Medical Control and a section number of specifies for the large are an easy to the Charles M. Hagaraire

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In I rest B. Gratar Harrison of Carpor tangency is and making twinstalian in as as as a truly of costaling artificial lighting for the half and its light in the air fatigue of was carried as in the first five as the first our . As in the other halls, the work of peristal at the new there is a flevery specimen, the fitting of factor builts real control to fifth a bets and she long and repairting of the while loter its if larm as well as of bases. and appears of specimens. In out for a me cases of inventebrate fossils, this work was completed. The hall was reopened to the public early in June. In order to give space at the ends of the hall for certain large groups now under construction, and to introduce some new exhibits, some changes in the arrangement of cases and bases were made. The Yorkville and South American Mastodon mounts, the cast of the Megatherium and the model of the Moa, all of which had occupied the north end of the hall, were moved to new positions near the center, space being obtained here partly by removal of the cast of Colossochelus. illustrating methods of fossilization was withdrawn from the case which it had occupied, and an exhibit comparing ancient and modern plants and animals was installed in its stead. Some new specimens were introduced into this exhibit, part of them having been kindly presented by the General Biological Supply House of Chicago. A case containing ammonites was vacated, and three cases changed in position in order to bring corresponding exhibits into juxtaposition and make room for the exhibition of the great slab of the crocodilelike reptile. Steneosaurus, acquired during the year. Several specimens obtained by the Captain Marshall Field Paleontological Expeditions to South America in 1922-26 were added to the exhibits in the cases devoted to this area. These included skeletal parts of the Pleistocene horse-like animal, Hippideum, and of the short-faced bear, Arctodus. An egg of the giant extinct bird Aepyornis from Madagascar was transferred from the Department of Zoology and placed in the case of specimens of extinct birds.

The Rancho la Brea fossils, which had previously occupied two cases, were condensed to one case, and in the case thus emptied there was installed a collection of fossil rhinoceros, tapir, tiger-cat and other remains collected in Mongolia by the Third Asiatic Expedition of the American Museum of Natural History, Field Museum cooperating. Some tusks and other remains of the Mammoth and a drawing of a restoration of the Mammoth by Mr. C. A. Corwin completed the installation of this case. In another case containing other specimens of the Mammoth and Mastodon, the superb Mammoth tusks presented by Mr. John Borden were installed.

Of the first ten mural paintings of the series being presented by Mr. Ernest R. Graham, representing typical scenes in different geological periods, prepared for the hall by Mr. Charles R. Knight, seven have been placed in final position on the walls of the hall. The subjects of these paintings are: The Chicago Coral Reef,

transfer Bearing

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Great progress was made surely the least of the least of the process of the proc

case of Lepidodendron and the smaller Sigillaria stems, by applying to the molded trunks a specially prepared cortex produced in a mold which in each case is a perfect replica of corresponding fossils in the Museum's collections, or in the case of Lepidophloios, of a specimen kindly loaned for the purpose by the United States National Museum.

The large quantity of foliage required for the Calamite reconstructions has been produced also by mechanical means, and altogether the work on the material for this exhibit is so far advanced that as soon as the case for the group is built, the parts already completed may begin to be assembled, and will give a fair idea of the eventual appearance of the group. This exhibit is to be installed at the south end of Ernest R. Graham Hall.

In the paleontological laboratory a considerable amount of repairing and remounting of vertebrate fossils incident to the reinstallations in Ernest R. Graham Hall was carried on, and the work of preparing, for exhibition and study, the vertebrate fossils collected by the Captain Marshall Field Paleontological Expeditions to South America, was continued. Repairs to specimens included those of broken parts of the skeleton of the extinct bird Dinornis and of the ribs and sacrum of the mounted skeleton of the large dinosaur, Apatosaurus.

Specimens newly mounted or remounted include a skull and two limbs and feet of the extinct short-legged aquatic rhinoceros, releoceras; of both fore and hind limbs of the North American camel-like animals, Oxydactylus and Stenomylus; a skull of the large, pig-like Elotherium; a skull of the South American hoofed mammal Astrapotherium; a skull of the marine reptile Platecarpus, and a pair of lower jaws of the Mastodon.

Specimens cleaned of matrix and prepared for exhibition or study included a part of the skeleton of the large, extinct South American ground sloth, Scelidotherium; several jaws of Hippideum; a jaw of Arctotherium; a skull of Nesodon; additional parts of the skeleton of the little known tapir-like Homalodontotherium; bones of a small South American dinosaur; skulls of a new type of a large South American marsupial carnivore, and a skull four feet in length of the great ground sloth, Megatherium.

A mold and two casts of the Gladstone meteorite acquired during the year were made in this laboratory by Preparator J. B. Abbott for purposes of record and distribution to other institutions. The chemical laboratory has been in almost constant use throughout the year. For about three mostlo its facilities were largely or pived in the preparation of parts of the foliage used in the construction of the Forest of the Carboniferous Person. For this work it was found necessary to provide a forced draft for the basel. This was accordingly also by installing a blower propelled by an electric notice and connected by a flue with the stack. A rotating cap was also provided for the stack in place of the fixed cover previously used.

Many chemical analyses and investigations were carried on in the laboratory by Associate Curator Nichols, the most important being a complete quantitative analysis of the Tilden, Illinois, stone meteorite. Other investigations and a " a cre . investigation as to the durability of a number of papers under consideration for use in Museum publications; investigation as to the suitability of a paper desired for special use on a Museum expedition, investigation of a pagment for use on the backgrounds of Museum groups; investigation of the nature of a plastic used in tanidermy resulting in discovers of the presentation of its preparation at a track cover out than that at which it had betterto been intraced investigation of the causes of sediments in the solutions used in the Divisions of Roentgenology and Photogravure; investigation of a solution used for the preservation of ancient Egyptian textiles; investigation of the nature of the crystals occurring on an Inca skull; analysis of the filling of an Inca tooth; investigation of the nature of a pottery tent at t analysis of the copper used in an abonginal hoe.

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To the electronic laboratory e.g., and electroped a laboratory and action of a laboratory will be electronic laboratory the part of the water the laboratory was thereby great of a laboratory. The preparation of

the linings and battens and the refitting of shelves for sixty-four upright cases was carried on here by Preparator Valerie Legault, who also installed the linings and shelves in the cases. The frameworks for three large tree trunks, eighteen feet in height, for the Carboniferous Forest group were also constructed here by Preparator Legault and several bases for mounts in Ernest R. Graham Hall were made by him.

Under the supervision of Associate Curator Nichols, a model of an oil well for exhibition in connection with the exhibit of petroleums in Hall 36 was brought nearly to completion in this laboratory. The model is six feet high, three and one-half feet long and eight and one-half inches deep. It is intended to reproduce essentially the features of a small area in the Lawrenceville, Illinois, oil district. The scale of the model is five feet to the inch. As this scale does not, however, give opportunity to show the true depth at which the oil occurs, a gap is left in the model between the surface features and that part of the model showing the oil-bearing strata.

The surface features show a derrick, pumps, engine, equipment for drilling and various accessories employed both to drill a well and to raise the oil to the surface. The strata passed through to reach the oil are shown in their relative positions, and the relative situations of the oil, gas and salt water in the oil-bearing strata are also shown. The dissimilarities of the strata are brought out by differences in color and texture in the materials used in constructing the model, and they correspond to those which actually occur in the formations passed through in the Lawrenceville district.

ZOOLOGY.—Progress in the preparation and installation of habitat groups of large mammals was unusual, probably exceeding that of any previous year. Four groups of large size were finished and are now on exhibition, as well as one group of small antelopes. Also four cases of large mammals were added to the classified exhibits in George M. Pullman Hall.

Of outstanding interest was the initiation of installations of Asiatic mammals in William V. Kelley Hall. Case construction for one-fourth of this hall was completed, and two important groups were put in place. These were the groups of Marco Polo's sheep and the Asiatic ibex, both prepared from specimens obtained by Colonel Theodore Roosevelt and Kermit Roosevelt on the James Simpson-Roosevelts Asiatic Expedition of Field Museum.

The grant of Mar. It is a construction of the theat, forbidding hature of the habitat of these praceful animals.

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In the hall of American mammal habitat groups, a group of glacier bears was installed in the last remaining space in the eastern half of the hall, thus bringing to completion its first major unit which now includes twelve large groups of high quality. The glacier bear group has for a setting the picturesque glacier-bound mountains of the Alaskan coast. An old female bear is shown with her three cubs, the mother lying down by an alder bush with her eyes watchfully devoted to the youngsters, one of which is curled up beside her, while the others are playfully perched on nearby rocks. The group was prepared by Taxidermist C. J. Albrecht.

In George M. Pullman Hall several important additions and improvements were made to the classified exhibit of hoofed mammals. A case of American mountain sheep shows the Canada sheep or Rocky Mountain bighorn, the Lower California sheep, the Stone's sheep of northern British Columbia, and the Alaskan sheep or Dall's sheep. These are variously posed on a single base of artificial rockwork.

Another new case in George M. Pullman Hall is devoted to two five specimens of the European red deer, presented to Field Museum by Lord Astor of England. A full grown stag with fully developed antiers is here posed on a natural base, with a young male of the abnormal type known in Scotland as a "cromie." Tufts of Scotch heather are seen at their feet, and the whole effect is very pleasing. The specimens were mounted by Taxidermist Leon L. Pray.

Further new features in the systematic exhibit of mammals are single specimens of the rare and peculiar giraffe-like mammal known as the okapi, and a large bull mountain nyala, each of which occupies an entire case. The okapi was secured by Mr. Edmund Heller on the Captain Marshall Field Central African Expedition, and has been carefully prepared by Taxidermist C. J. Albrecht.

Reinstallation of five screens of mammals was carried out in Hall 15, and all old style cases were eliminated from this hall.

In Hall 21 a case of American ducks was installed with sixty-nine specimens belonging to forty species, representing a practically complete collection of this group of birds. A pair of the extinct Labrador ducks is shown, the male being in replica, because the actual specimen possessed by the Museum is too valuable to risk remounting. Six specimens were added to the case of diving birds and gulls.

Two cases of fishes were placed in Hall 18 to occupy the remaining space in the east half of this hall. The species shown are representatay food and game falses of the conformal Mean of the case is decided to may a and shades secured from the Marke Europe Laboratory of Wesses Hore Massachusetts and the tree the conformal for the case are called the conformal formal f

The new cases of father were indicated and in the effect was sosatisfactors that reinfalling the effect was sosatisfactors that reinfalling the effect was sensitive and and a beginning to the effect of the ef

The exhibits of reptiles and amphibians, for which new material has been secumulating, were greatly improved by the installation of two new cases of the A-type in Hall 18. One of these contains fourteen specific are to the second and the second are the second as a specific of an appearance of an area of an area of a second as a

The selection and preparation of insects for exhibition was advanted to a point where material for two cases a reads for installing and the parating of labs so One of these provides an improved and charged series of sort on the charged series of sort on the charged series of sort on the charged series and caracters of the fit of the charged series and caracters of the fit of the charged series and caracters of the fit of the charged series and caracters of the fit of the charged series and caracters of the fit of the charged series and caracters of the fit of the charged series and caracters of the fit of the charged series and caracters of the fit of the charged series and caracters of the charged series and caracters of the charged series and charged series are charged series.

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The paintings of Abyssinian birds and mammals by the late L. A. Fuertes were transferred from Stanley Field Hall to Hall 21, and a part of them removed to smaller cases. Duplicate or outworn material, numbering 501 mounted birds and sixty-one mounted mammals, was disposed of.

Five more large groups of mammals were in various stages of preparation at the close of the year. These are the Indian rhinoceros, Alaskan brown bear, polar bear, South American swamp deer, and African cony or dassie. A case of waders and shore birds for the systematic exhibit of American birds was nearing completion.

Progress was made in storing, preparing, and caring for the unusual amount of material recently received in raw condition from expeditions. The entire collection of large mammal skins was overhauled and rearranged, and superfluous specimens were eliminated. The skin dresser was occupied with much fresh material, and in addition 131 skins were dressed by outside agencies. Skulls of mammals to the number of 1,375 were cleaned under contract, and 987 by the Museum osteologist, making a total of 2,362 cleaned.

Rearrangement of the reference collections of mammals and birds was carried out so far as available cases and drawers would permit. Six of the new metal cases are now in full use in the Division of Mammals and eight in the Division of Birds. During recent years, incoming material has been given temporary storage in scattered places wherever space could be found. This condition is now partially relieved and, at least in certain groups, all material of one kind may be found together. The trays in the new cases have been supplied with metal label holders in which labels have been placed showing the contents of each tray and thus greatly facilitating the consultation of the specimens.

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

Sixteen years ago, in 1912, through the generosity of Mr. N. W. Harris, the Museum added this Department. Its function is to extend the work of the Museum into the schools of Chicago by delivering to them portable cases containing natural history and economic exhibits.

Since that time 1,070 cases have been prepared. Fifty of these were completed in 1928.

During these sixteen years there has been a revolutionary advance in methods of preparing and modes of exhibiting natural history



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material. This Department has sept passe with that advance in all its phases. The cases prepared in resembly each have carefully littled backgrounds and foregrounds providing a semple terinatural setting for the specimens displayed. Like the larger state mater cases in the Museum, they represent an almost perfect has not of the subject as it appears in nature. Although the preparation of such cases is much more introduce, and makes precate demands to the time of the preparations, the presonant in numbers of new cases has been main tained.

The cases are prepared with every request for their greatest possible durability. Considering the very frequent transportation with inevitable changes of temperature and humanity when their undergo, and the almost constant handling by one treatment to solve the breakage has been very small. In 1928 repairs were made to 322 cases, and every case was given a instrugic trapectors and cleaning

The regular service of two cases to each school, changed every two weeks has been maintained for 402 institutions. Of it is number. 282 are schools: 371 of them public, five private, five Roman Catholic. and one Lutheran. The other institutions are cight Y. M. C. A.s., five branch libraries, three community centers, one boy's club, one hospital, one orphanage, and one boy's detention home. For the summer vacation period forty-three cases were leanest for display at Navy Pier, twelve to the Junior Department of the Art Inet 1 to and twelve to Camp Algoriquin, a camp for Chicago children " reedy families. Cases were shipped out of town to institutions. as follows: two to the Nashville Museum of Art, two to the Chaldren's Married 10 for Deep L. Married Sant In the Toring Married In Accessed from the box of thought, from a finish part of the control from the fire display in South Bend, and ten, by the request of the Director of Illinois Department of Conservation, to the Illinois State Fair at Springfield. Mile laster was in based for the filter for the first principle. all the filtering but the model that the filtering the filtering make every used to make a final Manage are to be at least transthe first transfer to the first transfer to the ear a consequence of

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such study. The value of this type of research has been recognized by other schools of art, and the plan followed in the work has been adopted by other museums and kindred institutions.

Several hundred students, both from beginners' and advanced classes in the Art Institute, participate in these studies. The Art Institute provides the instructors, and Field Museum makes available its study collections, as well as the publicly exhibited material, for sketching and research. Much meritorious pictorial and design work has been produced by the students in these classes.

DIVISION OF PUBLIC RELATIONS

The attention of the public has been drawn to Field Museum's activities, through publicity in the daily press of Chicago, and the press of the entire United States, to a greater extent during 1928 than in any previous year. Also, the more important news concerning the Museum has been given world-wide circulation by international news agencies.

In addition to newspaper publicity, the Museum has received attention in important periodicals of various kinds; it has benefited from advertising, given as in past years without charge, through the generosity of those in control of various advertising media; and it has received further publicity through radio broadcasting and in motion picture newsreels. The Museum's own direct advertising efforts, through distribution of direction folders and other literature designed to attract more visitors from among both local residents and strangers in the city, have been continued as in past years.

Newspaper Publicity.—The Division of Public Relations released a total of 349 news stories during 1928, or an average of more than six each week. Copies of these stories were furnished to the seven major daily newspapers of Chicago; to some sixty community and neighborhood papers published in the city; to more than fifty of Chicago's foreign language newspapers; to some fifty suburban newspapers covering all the principal suburbs, cities and towns within a fifty-mile radius of Chicago; and to all the principal national and international news agencies.

Many of these stories were accompanied by photographs, prints from 261 negatives having been released by the Museum, copies of each of these being sent to a list of twenty-one newspapers and news photograph agencies, through which hundreds of additional copies were distributed to newspapers all over the country. The JAN 1929

photographs have been especially well received by newspapers publishing rotogravure sections

Insurnuch as the interest of editors necessarily reflects the interest of the public, it is especially multivary to record the fact that during the year the Museum has recovered tomerous requests from important newspapers and news feature writers asking that their names be added to the publicity maining list.

The news storm farges from items of fifty words or so up to full column articles, the nation of the column articles, the nation of the column articles are released was printed in so crall. Chicago newspapers and may one all; and the majority of them received extensive space in papers throughout the country. In many cases newspaper staff writers have expanded these releases into full page feature articles. Many Museum activities reported in the press have drawn editional comment both in Chicago papers and the papers of many other cities.

Linewise grateful recognition is herewith given to the other departments of the Ch. in Private and the Ch. in Findly Acous.

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Special publisher was still on the product of persons of the second of the Miller of the State o

Indicating the extent of the newspaper publicity received, the records show that an average of nearly 1,600 clippings of articles mentioning the Museum are being received each month. As no complete coverage of even the English language newspapers is available, and certain groups such as foreign language papers are not covered at all by the clipping services, this number represents only a part of the space given the Museum. The highest monthly receipt of clippings was in September, with 2,822. The total number of clippings for the year was 19.105.

Publicity in Periodicals.—Many special articles on the Museum and its activities, some prepared at the Museum on the request of editors, and others written by outside writers, usually illustrated with photographs furnished by the Museum, have appeared in general and popular magazines, trade journals, scientific publications, and other periodicals. Among the more important publications in which this material has appeared are Scientific American, Chicago Commerce, Popular Mechanics, Science, Popular Science, Americana Annual, International Year Book, Art and Archaeology, Science News Letter, Museums Journal (London), and American Yang Rook

ADVERTISING.—As in past years, the Museum has been fortunate in having a wide variety of advertising media generously placed at its disposal without charge.

Particularly notable was the action of the Chicago Evening American, which, in October, had prepared and gave space to a full page advertisement about the Museum, and then at its own expense bought full pages in other Chicago newspapers for republication of this advertisement. Carrying the heading, "Field Museum—where stay-at-home Chicago sees the world," this advertisement attracted a great deal of attention and stirred much public interest. Grateful acknowledgement is hereby made to the Evening American and its publisher, Mr. Herman Black.

The Chicago Rapid Transit Company, and associated interurban lines, distributed 50,000 Field Museum descriptive folders, and again kindly displayed in Elevated Lines stations a series of colored posters of Museum exhibits. The Chicago, North Shore and Milwaukee Railroad again allotted space throughout the year to Museum exhibits and lectures in its "This Week's Events" posters displayed at all stations between Chicago and Milwaukee.

The Charago Sur'as a Linear continued its penerously of previous years by proving at its own expense, and displaying in the street ears, or rest overhead posters advertising the Museum. The line is Central Railroad and the Change and North Western Railroad and their city and suburban stations placards attourned to a Museum lecture courses. These posters were likewise displayed in Marshall Field and Company's retail store, and in libraries, schools and other institutions.

From a fad page to a page of a massure in process as a Chicago theatre programs a custom which has two times to a contract the Chyd W. R. et al. of the Chyd a contract the custom as th

The Museum was with advertised in the state of a state of the age of the beauty of a state of a state of the age of the state of the st

Through the cooperation of the University of Chicago and Northwestern University, Museum literature was distributed to thousands of students. The house organs for customers and empty of a student literature of the Martin Fig. 1 and the English of Company of the Company of the

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Newsreels.—Motion pictures also brought Field Museum activities before the public. These included newsreels taken by International Newsreel. Kinograms, Chicago Daily News, Pathé and special films taken by the Chicago. South Shore and South Bend Railroad.

PAMPHLETS.—Special publicity was given the work done among school children by the Museum in a pamphlet prepared by the Division of Public Relations entitled "Field Museum and the Child," in which the activities of the N. W. Harris Public School Extension Department and the James Nelson and Anna Louise Raymond Public School and Children's Lecture Division are outlined. This pamphlet was widely distributed among school officials, principals, teachers, Members of the Museum, and other persons likely to be interested in this subject.

The Field Museum folder, "One of the World's Treasure Houses,"
was revised up to date and a new edition published, and a large
amount of general editorial work was done by the Division of Public

Relations.

DIVISION OF PRINTING

During 1928 the output of the Division of Printing has again greatly exceeded that of previous years. This is especially true of exhibition labels, for which a special need arose in order that certain halls on the ground floor with anthropological exhibits could be opened to the public.

No noteworthy change or increase in the equipment was made during the year, but in order that the composition on publications could be advanced in a satisfactory manner, a monotype operator for a night shift was added to the staff on July 1. As a result of this addition excellent progress was made during the past six months on the composition work for regular publications, guides, leaflets, childrens' stories, and other jobs requiring an unusual amount of typesetting.

The following publications were printed and bound during the period under review:

	1	ım	ber of copie
Publication 246-Contents and Index to Volume XIV			1.000
Publication 247-A New Crocodile from New Guinez.	 		1.021
Publication 248-Annual Report of the Director for 1927	 		3,800
Publication 249-The Marine Fishes of Panama	 		1,530
Publication 250—A New Genus of Aquatic Rodents	 		1,017
Publication 251—Reptiles Collected in Salvador			1.017
Publication 252-Notes on South American Caimans	 		1,010
Publication 253—The Prehistory of Aviation			1.523

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DIVISIONS OF PHOTOGRAPHY, ROLNIGINOLOGY AND ILLUSTRATION

Photo-marks — The total number of matters soles negatives and points reade by the Division of Fred graphs during the year amounted to 2182. The following tall united as a contact of the week performed.

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Totals	1.544	6 4		10.1		49

ROENTGENOLOGY.—Considerable publicity was given to the X-ray work of the Museum in 1928. As a result, international attention has been attracted to the findings made by the Division of Roentgenology.

Much careful experimentation has been devoted toward perfecting a technique that will adapt itself to the penetration of the
unusual substances that have been submitted to the X-ray laboratory for study. In mummy packages, for instance, to obtain a
shadow of the skeletal structure of the body, the bandages and
wrappings, and often even the coffin must be penetrated also. The
anthropological specimens that have been X-rayed are all mummies
contained in their original wrappings, and development of these
films brought many surprises.

In the mummy of a child, for instance, it was found that the arms had been removed and the legs broken, presumably to make the body fit a coffin too small for it. From all outward appearances this package seemed to contain the entire body of the child. The original wrappings have never been disturbed, and this mutilated condition was not even suspected until the X-ray film was made.

X-ray examination of another mummy, that of an adult Egyptian disclosed the fact that the arms and torso were missing. The head was suspended to the pelvic region by a board, and the cavity normally occupied by the missing parts was filled with some radiolucent material that casts almost no shadow on the X-ray film.

Pathological conditions, identical with present-day ills such as arthritis, genu valgum, scoliosis, et cetera, are clearly defined on some of the films. These findings have been corroborated by Dr. Cora A. Matthews of the Cook County Hospital.

Life-size prints of the above described X-ray films have been placed on exhibition in Hall J. These prints are in close proximity to the original mummies so that interesting comparisons can be made.

PHOTOGRAVURE.—Following is a list of the photogravure illustrations and postal cards completed during the year 1928:

	Number of prin
Publication illustrations.	. 133,500
Leaflet illustrations	70,000
Design Series illustrations	63.000
Guide covers	20.000
African Hall Guide illustrations	52,500
Posters	1 900
Postal cards in series.	195,000
Postal cards (general)	96,000
Special (membership headings)	1,375
Total.	633 275



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DIVISION OF MEMBERSHIPS

Increased interest in Field Museum and its activities is evidenced by the growing number of public-spirited citizens who have become Members.

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CALL II IIIA

During the year 86,000 Museum, conters were furnished refrestments in the cafeteria located on the proof floor, at its rease of 1,000 over the number secured in 1677. The adoption is not operated by the Museum, but is not be the company entirely a concessionate

In the pages who is follow are sales that the Museum's dimensial statements, lists of an empire of our or of Members, et retern

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ATTENDANCE STATISTICS AND DOOR RECEIPTS

FROM JANUARY 1, 1928 TO DECEMBER 31, 1928

Total attendance Paid attendance	137,607	1,023,627
Free admissions on pay days: Students School children Teachers. Members.	11,031 50,525 2,677 1,295	
Admissions on free days: Thursdays (62). Saturdays (52). Sundays (53).	126,579 238,561 455,352	
Highest attendance on any day (August 19, 1928) Lowest attendance on any day (December 21, 1928) Highest paid attendance (September 3, 1928) Average daily admissions (366 days) Average paid admissions (209 days).	20,894 146 9,000 2,796 658	
Number of guides sold Number of articles checked. Number of picture postal cards sold.	8,282 19,428 132,877	
Sales of publications, leaflets, handbooks and photographs	\$4,087.42	

GENERAL FUND

STATEMENT OF CASH RECEIPTS AND DISHURSEMENTS

AT 1084 BMD BD -11, 1924

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South Park Commissioners	217,607.59	
Fundry receipts	20,566,70	
Memberships	*	
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Operating expenses	\$ DOLLARS OF	
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Transferred to hinking Fund	10,500 00	1,775,459.74

Transferred to Sinking Fund. 10,000.00 1,715,459.74
Balance December 31, 1905 1 41 19 64

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION STATEMENT OF INCOME AND EXPENSES FOR THE YEAR 1928

Interest and dividends on investments\$ Operating expenses	20,345.98 20,809.76
Excess of expenses over income	463.78

STANLEY FIELD PLANT REPRODUCTION FUND

STATEMENT OF INCOME AND EXPENSES FOR THE YEAR 1928

Daniel Da	
Balance, December 31, 1927. Contributions by Stanley Field during 1928.	\$ 186.14 17,322.00
Operating expenses—1928.	\$ 17,508.14 16,857.66
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ACCESSIONS

DEPARTMENT OF ANTHROPOLOGY

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- FERGUSON, FRED D., Manito,
 - 12 archaeological objects: 10 decorated pottery sherds, 1 clay tobacco-pipe, 1 lot of detached bones—Mound seven miles from Manito, Illinois (gift).

FIELD, HENRY, Chicago.

- 7 archaeological objects: 5 tubular beads, 1 cylinder seal, and 1 animal carving—Jemdet Nasr, Mesopotamia (gift).
- FIELD (WALTER) COMPANY, Chicago.
 - 1 piece of decorated tapa—Samoa (gift).
- FIELD MUSEUM OF NATURAL HISTORY.
 - Collected by Ralph Linton, leader of Captain Marshall Field Expedition to Madagascar:
 - 1,527 objects: wood carvings, brass castings, iron lamps, costumes, blankets—Bara, Tanala, Betsileo, and Imerina tribes, Madagascar.
 - 130 objects of basketry, wood carvings, fur cloaks, weapons, beadwork—mostly Basuto, South Rhodesia, South Africa.
 - Collected by Dr. Neville Jones, Captain Marshall Field Expedition to Madagascar:
 - About 100 paleolithic type specimens—South Africa.
- Collected by E. S. Riggs, Captain Marshall Field Paleontological Expedition to Argentina and Bolivia, 1926-27:
 - 2 prehistoric potsherds—Tarija, East Bolivia, South America.
- Collected by J. Eric Thompson, leader of Captain Marshall Field First Archaeological Expedition to British Honduras:
 - About 130 archaeological objects of pottery, stone, jade, and shell— Maya, British Honduras, and Honduras.
- Collected by W. D. Strong, anthropologist of Rawson-MacMillan Subarctic Expedition of Field Museum, 1927-28:
 - About 849 archaeological and ethnological objects: stone, bone, and household implements, soapstone

- and ivory carvings, clothing, weapons, and ceremonial material; 34 skeletal remains—Eskimo and Naskapi, Labrador and Baffin Land.
- Collected by Henry Field, leader of Captain Marshall Field First and Second Archaeological Expeditions to the North Arabian Desert:
- About 15,021 objects of prehistoric flint implements and flakes, stones bearing tribal marks, and one inscribed door-lintel—North Arabia.
- Collected by Henry Field, leader of Captain Marshall Field Archaeological Expedition to Western Europe:
 - About 10,100 objects of prehistoric flint and bone implements, casts from French National Collection, and casts of prehistoric human remains—France, Germany, and England.

Purchases:

- 3 objects of beadwork: 1 beaded blanket stripe, 1 pair of beaded moccasins, and 1 pipe-bag beaded with quilled fringe—Plains Indians, Dakota, from Mrs. Laura F. Stewart, collector.
- 1 copper hoe of native "Indian" copper—Arizona, from P. S. Bentz.
- 17 ethnological objects: articles of clothing, household utensils, and snowshoes — Penobscot Indians, Maine, from Dr. Frank G. Speck, collector.
- 1 pair of emu feather slippers aborigines, West Australia, from J. F. Connelly, collector.
- 30 ethnological objects: clothing, knife, Jew's harp, tobacco-pipes, drinking-cup, and spoon—Taiyal, Paiwan, Bunun, Ami, and Tsou tribes, Formosa, from Gordon T. Bowles, collector.
- 1 old piece of decorated tapa— Hawaii, from Mrs. Emily Wallace.
- FIELD MUSEUM-OXFORD UNI-VERSITY JOINT EXPEDI-TION (CAPTAIN MARSHALL FIELD FUND).
 - About 24 fragmentary skulls and about 1,500 archaeological ob-

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- ALEXANDER, MRS. H. H., Avalon, California.
 - 1 herbarium specimen (gift).
- ARCHERS COMPANY, Pinehurst, North Carolina.
 - 3 wood specimens and 1 herbarium specimen of Taxus and Torreya (exchange).
- ATWOOD, CHARLES E., Chicago. 29 samples of tea (gift).
- BALL, DR. C. R., Washington, D. C. 12 herbarium specimens of willows from Minnesota and North Dakota (gift).
- BARREL, GEORGE, Boston.

 1 fruiting specimen of Peruvian
 - mahogany (gift).
- BASNETT, DOUGLAS, Chicago.

 14 hand specimens of woods from
 Brazil and Chile (gift).
- BAYER, JACOB, LUMBER COM-PANY, New York City. A black cherry board (gift).
- BELIZE ESTATE AND PRODUCE COMPANY, Belize, British Honduras.
 - A mahogany board (gift).
- BENKE, H. C., Chicago. 521 herbarium specimens, chiefly
- from Illinois (gift).
- BLETSCH, W. E., Highland Park, Illinois. 18 hand samples of tropical woods
- (gift). BOMBAY NATURAL HISTORY
- SOCIETY, Bombay, India. 6 samples of vegetable oils (gift).
- BREMER, MISS MARY, Crown Point, Indiana. 9 herbarium specimens from Indiana
- (gift).
 BRIGNOLES BOTANIC STATION.
- Brignoles, France.
 19 herbarium specimens and packets
- BRITISH FOREST SERVICE, Belize, British Honduras.

of seeds (gift).

1 specimen of the inflorescence of a palm (gift).

- BUREAU OF STANDARDS, Washington, D. C.

 9 photo-micrographs of fiber (gift).
- CALDERON, DR. SALVADOR, Direccion General de Agricultura, San Salvador, Salvador,
 - 106 herbarium specimens from Salvador (gift).
- CALIFORNIA ACADEMY OF SCI-ENCES, San Francisco.
 - 415 herbarium specimens, chiefly from Lower California (exchange).
- CLEVELAND MUSEUM OF NAT-URAL HISTORY, Cleveland, Ohio.
 - 18 herbarium specimens from Ohio (gift).
- CLYNES, M. R. and N. E. BECKER, Chicago.
 - 1 wood specimen of Osage orange (gift).
- COLTON, MRS. THERON, Chicago. 1 herbarium specimen from Illinois (gift).
- COMMERCIAL SOLVENTS COR-PORATION, Terre Haute, Indiana.
 - 10 samples of corn products (gift).
- CONSERVATOR OF FORESTS, Rangoon, Burma. 176 wood specimens (gift).
- CRANE AND COMPANY, Dalton, Massachusetts.
 - 5 specimens of material employed in paper manufacture (gift).
- DAHLGREN, DR. B. E., Chicago.

 A branch of Honduras mahogany
 and a collection of aroid and other
 tubers from Trinidad (gift).
- DAHLGREN, MRS. B. E., Chicago. 1 herbarium specimen from California (gift).
- DEAGAN, J. C., INC., Chicago. A board of Honduras rosewood (gift).
- DIRECCION GENERAL DE AGRI-CULTURA, Guatemala City, Guatemala.
 - 28 herbarium specimens from Guatemala (gift).



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- MARTINEZ, PROFESSOR MAXI-MINO, Mexico City, Mexico.
 - 1 herbarium specimen from Mexico (gift).
- NEW YORK BOTANICAL GAR-DEN, New York City.
- 6 herbarium specimens (exchange). NEW YORK COCOA EXCHANGE,
 - New York City. 8 samples of cacao (gift).
- PEARSON, G. H., AND SON HARD-WOOD COMPANY, INC., New York City.
 - 29 wood specimens (gift).
- PHILLIPS, O. F., Chairman, Board of Review, Chicago. A tray of barley standards (gift).
- PLATANIA, PROFESSOR GAE-TANO, Catania, Italy. 3 citrus boxes (gift).
- PURPUS, DR. C. A., Zacuapam, Mexico.
 - 72 herbarium specimens from Mexico (gift).
- REKO, DR. BLAS P., Indé, Durango, Mexico. 42 herbarium specimens from Mexico

(gift).

- RIDGWAY, ROBERT, Olney, Illinois, 332 herbarium specimens from Illinois (zift).
- ROYAL BOTANIC GARDENS, Kew, England.
 - 647 herbarium specimens from Colombia (exchange).
- RUTH, PROFESSOR ALBERT, Fort Worth, Texas.
 - 34 herbarium specimens from Texas (gift).
- (gilt). ST. JOHN, DR. HAROLD, Pullman,
 - 1 herbarium specimen (gift).

Washington.

- SHERFF, DR. EARL E., Chicago. 85 herbarium specimens (gift).
- SMITH, HURON H., Milwaukee, Wisconsin.
 - 1 herbarium specimen (gift).

- STEVENSON, NEIL S., Belize, British Honduras.
 - 8 specimens of palms from British Honduras (gift).
- STORK, PROFESSOR H. E., Northfield, Minnesota.
 - herbarium specimen from Costa Rica (gift).
- SUTHERLAND, THOMAS G., Chicago.

 A police baton made from lignum
 - A police baton made from lignum vitae (gift).
- TEHON, L. R., Urbana, Illinois. 103 herbarium specimens from Illinois (gift).
- UNITED STATES DEPARTMENT OF AGRICULTURE, Bureau of Plant Industry, Washington, D. C.
 - 9 herbarium specimens (exchange).
- UNITED STATES NATIONAL MU-SEUM, Washington, D.C.
 - 8,805 herbarium specimens (exchange).
- UNIVERSITETETS BOTANISKE MUSEUM, Copenhagen, Denmark.
 - 276 herbarium specimens from tropical America (exchange).
- WARREN, S. D., COMPANY, Boston. 8 specimens of material used in paper making (gift).
- WIELAND, PROFESSOR G. R., New Haven, Connecticut.
 - 1 ground section of Cycadeoides (gift).
- WITTE MEMORIAL MUSEUM, San Antonio, Texas.
 - 465 herbarium specimens from Texas (gift).
- YALE SCHOOL OF FORESTRY, THROUGH PROFESSOR SAMUEL J. RECORD, New Haven, Connecticut.
 - 371 herbarium specimens from tropical America (gift); a log of caique bloodwood (gift); 1,501 wood specimens (exchange); a bag made of pita floja, latex of the Guatemala cow tree, seeds of Astrocaryum, wood specimen of pink ivory (gift).

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- 45 specimens of fragments of shells of eggs of Protoceratops and Struthiolithus—Mongolia.
- Collected by Captain Marshall Field Paleontological Expedition to Alberta, Canada, 1922:
 - 1 trunk of fossil tree Alberta, Canada.
- Collected by Captain Marshall Field Paleontological Expedition to Argentina and Bolivia, 1922-24:
 - gentina and Bolivia, 1922-24: 48 specimens fossil invertebrates— Patagonia Beds, Argentina.
- Collected by Captain Marshall Field Second Paleontological Expedition to Argentina and Bolivia, 1926-1927:
 - 144 specimens fossil vertebrates and invertebrates — Tarija, Bolivia and Province of Buenos Aires, Argentina.
 - 171 specimens fossil vertebrates— Catamarca, Argentina.
- 21 specimens fossil Devonian invertebrates—Austral fauna of Bolivia. Collected by H. W. Nichols:
- 2 specimens soils—Antioch, Illinois.

Purchases:

- 1 iron meteorite—Gladstone, Australia.
- 1 iron meteorite-Houck, Arizona. Section of iron meteorite—Duchesne
- County, Utah.

 Skeleton of Teleosaur in matrix—
 Holzmaden, Württemberg, Ger-
- many. 1 specimen modern crinoid—Sagami
- Bay, Japan.
 2 specimens fossil echinoids—Pontotoc, Mississippi.
- FIELD, MRS. STANLEY, Chicago.
 1 specimen claw of fossil sloth— Sarasota, Florida (gift).
- GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago.
 - 9 specimens modern plants and animals—various localities (gift).
- GLENDINNING, R. J., Salt Lake City, Utah.
 - 1 specimen gilsonite-Utah (gift).
- GOLDBLATT, EDWARD, Chicago.
 1 specimen fossil fish—Fossil, Wyoming (gift).

- GRONEMANN, C. F., Elgin, Illinois.

 1 specimen peat from sphagnum—
 Gilbert's, Illinois (gift).
- HALVORSEN, E. E., Templeton, California.
 - 2 specimens fossil pelecypods—California (gift).
 - 3 specimens fossil oysters—Califor-
 - nia (gift).

 1 specimen petrified wood—California (gift).
- HARRISON, C. M., Amory, Mississippi.
 - 16 specimens bentonite and associated rock—Amory, Mississippi (gift).
- HESTER, J. P., Flagstaff, Arizona.

 1 specimen fossil amphibian footprints—Cameron, Arizona (gift).
- 15 photographs (gift).
- HIGGINSON, MRS. CHARLES M., Kenilworth, Illinois. 3,240 specimens minerals—various localities (gift).
- HOLDERNESS, WILLIAM T.,
- Chicago.

 1 specimen marcasite concretion—
 southern Illinois (gift).
- ILLINOIS STATE MUSEUM, Springfield, Illinois.
 - Portion with crust of the 46-pound individual of the Tilden meteorite, and a cast of the entire individual—Tilden, Illinois (gift).
- KINSER, B. M., Port Stanton, Canada.
 - 21 specimens Ordovician fossils— Port Stanton, Canada (gift).
- LANG, JOHN, Jacksonville, Texas.
 - 1 limonite concretion—Jacksonville, Texas (gift).
- LAW, D. H., Dixon, Illinois.
 - 1 specimen of root of fossil tree— Elsie, Kentucky (gift).
- LAYBOURNE, E. G., Chicago.
 - 3 specimens fossil gastropods— Colorado (gift).
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- SEKERA, JOHN, Chicago.
 - 1 specimen chalcedony South Dakota (gift).
- SHANAHAN, W. F., Chicago.
 - specimen cup coral-Decatur, Illinois (gift).
- SIEGFRIEDT, DR. T. C. F., Red Lodge, Montana.
 - 2 specimens zonolite Montana (gift).
- SOMOGYI, JULIUS, Chicago. 1 specimen Lepidodendron—(gift).
- SOSNOVEC, V., St. Louis, Missouri.
- 8 specimens minerals-St. Louis. Missouri (gift).
- 7 specimens concretions-St. Louis. Missouri (gift).
- STATE GEOLOGICAL SURVEY. Urbana, Illinois.
 - 3 specimens oil sands-Lawrenceville, Illinois (gift).
- THOMAS, MRS. THEODORE, Cambridge, Massachusetts.
 - 1 specimen polished labradorite-Labrador (gift).
- TRUESDELL, DR. G. W., Taylor Falls, Minnesota.
 - 1 specimen conglomerate containing Lingula-Taylor Falls, Minnesota (gift).

- UNITED STATES GEOLOGICAL SURVEY, Washington, D. C.
 - 11 specimens potash salts-Texas and New Mexico (gift).
- UNIVERSITY OF CHICAGO, Chicago.
 - Skull and jaws of Poebrotherium wilsoni-Wyoming (exchange).
 - Skeleton of Oreodon culbertsoni-Nebraska (exchange).
- VAUGHAN, DR. R. V., Avalon, California.
 - 1 specimen calcareous tufa-Catalina Island, California (gift).
- VEDDER, MRS. W. J., Chicago.
- 1 specimen fossil ammonite-New Mexico (gift).
- WEIS, MISS LILLIAN MARY, Chicago.
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1 bird—British Guiana.

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SPAIN:

Associacio Catalana d'Antropologia Etnologia i Prehistoria, Barcelona. Institució Catalana d'Historia Natural, Barcelona.

Junta para Amplicación de Estudios e Investigaciones Científicas, Madrid

Musei de Ciencias Naturales, Madrid.

Sociedad Espanola de Antropologia, Etnografia y Prehistoria, Madrid. Sociedad Espanola de Historia Na-

SWEDEN:

Götesborgs Botanika Tradgrad Göteborg.

tural. Madrid.

Geologiska Institute, Stockholm. K. Biblioteket, Stockholm. K. Svenska Vetenskapsakademien,

K. Svenska vetenskapsakademien, Stockholm. K. Vetenkaps-och Vitterhets-Sam-

halle, Göteborg. Lunds Universitet, Lund. Riksmuseets Etnografiska Avedel-

CHIMPEDI AND

ning, Stockholm.

SWITZERLAND: Botanisches Museum, Zurich. Conservatoire et Jardin Botaniques,

Geneva. Musée d'Histoire, Lausanne. Naturforschende Gesellschaft, Basel. Naturforschende Gesellschaft, Zu-

rich. Naturhistorisches Museum, Basel. Schweizerische Entomologische Ge-

sellschaft, Bern. Société Botanique, Geneva.

Société de Physique et d'Histoire Naturelle, Geneva. Société Helvétique des Sciences

Naturelles, Bern. Société Neuchateloise de Géographie,

Neuchatel.
Société Suisse d'Anthropologie et

d'Ethnologie, Bern.

Societé Zoologique, Geneva.

URUGUAY:

Museo de Historia Natural, Montevideo.

VENEZHELA.

Cultura Venezolana, Caracas.

WEST INDIES:

Academia Nacional de la Artes y Letras, Havana.

Biblioteca Nacional, Havana. Department of Agriculture, Bridge-

Department of Agriculture, Kingston.

Insular Experiment Station, Rio Piedras. Trinidad and Tobago Department

of Agriculture, Port of Spain. Universidad de Habana, Havana.

Adam, Tassilo, Vienna (gift). Beaux, Oscar de, Geneva. Castellanos, Alfredo, Buenos Aires

(gift).
Collinge, Walter E., York, England.
Devincenzi, Garibaldi, J., Montevideo.
Dieseldorff, E. P., Charlottenburg (gift).
Dunod, Henri, Paris.
Faura v Sans, M. Barcelong (gift).

Faura y Sans, M., Barcelona (gift). Ferguson, John C., Peking (gift). Frankfort, H., London (gift). Friedländer und Sohn, Berlin (gift).

Gleerup, O. W. K., Lund. Hartert, Ernst, Berlin. Herter, Guillermo, Montevideo (gift). Hornell, James, London (gift.

Langdon, S., Oxford (gift). Lévy-Bruhl, Lucien, Paris. Meek, Alexander, Durham, England. Mertens, Robert, Frankfort on the

Main (gift). Montani, Lonio, Chatou, France (gift). Maller, Lorenz, Munich.

Mulleried, Fedérico. K. G., Mexico City (gift). Pittier, Henri, Caracas, Venezuela. Platania, Gaetano, Catania, Sicily.

Prout, A. E., London (gift). Rivet, P. Paris. Roth, Walter E., Christiansborg, Africa. Schinz, Hans, Zurich. Schlaginhaufen, Otto, Zurich. Sergi, Guiseppe, Rome.

Sergi, Guiseppe, Rome. Spencer, L. J., London. Stensio, Erik A., Stockholm. Thomson, J. Arthur, Aberdeen, Scotland (gift).

Tsuboi, R., Osaka (gift). Tsuda, Nositake, Tokyo (gift). Walsh, George B., Scarborough, England.



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Indiana University, Bloomington. John Herron Art Institute, Indian-

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Purdue University, Lafayette.
University of Notre Dame, Notre

IOWA:

Agricultural Experiment Station,

Historical, Memorial and Art Department, Des Moines Iowa Geological Survey, Des Moines. Iowa Journal of Science, Iowa City. Iowa Horticultural Society, Des

Moines.
Iowa State College of Agriculture,
Ames.
University of Iowa, Iowa City.

KANSAS.

State Board of Agriculture, Topeka. State Geological Survey, Lawrence. State Historical Society, Topeka. University of Kansas, Lawrence.

KENTUCKY:

Academy of Science, Lexington.
Agricultural Experiment Station,
Louisville.

Kentucky Geological Survey, Frankfort.

LOUISIANA:

Department of Conservation, Baton Rouge. State Museum, Baton Rouge.

MAINE:

Bowdoin College, Brunswick.

MARYLAND:

Academy of Science, Baltimore. Agricultural Experiment Station, College Park.

Enoch Pratt Free Library, Baltimore. JohnsHopkinsUniversity. Baltimore.

MASSACHUSETTS:

Agricultural Experiment Station, Amherst. American Academy of Arts and

Sciences, Boston.
American Antiquarian Society, Wor-

Boston Public Library, Boston. Clark University, Worcester. Essex Institute, Salem.

Essex Institute, Salem. Harvard College, Museum of Com-

parative Zoology, Cambridge.

Harvard University, Arnold Arboretum, Jamaica Plain.

Harvard University, Gray Herbarium, Cambridge.

Horticultural Society, Boston.
Museum of Fine Arts, Boston.
New Bedford Free Library, New
Bedford.

Peabody Institute, Salem. Peabody Museum, Cambridge. Salem Public Library, Salem. Springfield City Library Association,

Springfield. Williams College, Williamstown.

MICHIGAN:

Agricultural Experiment Station, Agricultural College. Department of Conservation, Geological Survey Division, Lansing. Detroit Institute of Art, Detroit. Grand Rapids Public Library, Grand

Rapids. Michigan Academy of Sciences, Ann

Arbor.
Michigan College of Mines, Houghton.
Michigan State Library, Lansing.

State Board of Agriculture, Lansing. State Board of Library Commissions, Lansing. Edward K. Warren Foundation.

Edward K. Warren Foundation, Three Oaks. University of Michigan, Ann Arbor.

MINNESOTA:

Agricultural Experiment Station, University Farm. Minneapolis Institute of Arts, Min-

neapolis.

Minnesota Geological Survey, Min-

neapolis.
Minnesota Historical Society, St.
Paul.

Paul. University of Minnesota, St. Paul.

MISSISSIPPI:

Agricultural Experiment Station, Agricultural College. Mississippi Plant Board, Agricultural College.

MISSOURI:

Agricultural Experiment Station, Columbia.

Bureau of Geology and Mines, Rolla. City Art Museum, St. Louis. Missouri Botanic Garden, St. Louis.

Missouri Historical Society, Columbia. Massiut State water a fig-Department 6 ... a Mt. Donne Suite - St. Care - St. Long. California of Mission 1

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OKLAHOMA:

Oklahoma Academy of Science, Nor-

Oklahoma Geological Survey, Nor-University of Oklahoma, Norman,

OREGON:

Agricultural Experiment Station. University of Oregon, Eugene.

PENNSYLVANIA:

Academy of Natural Sciences, Philadelphia.

Agricultural Experiment Station. Harrisburg.

American Philosophical Society, Phil-

adelphia.

Antivenin Institute of America,
Philadelphia.

Bureau of Topographical and Geological Survey, Harrisburg.

Carnegie Institute, Pittsburgh. Carnegie Library, Pittsburgh. Carnegie Museum, Pittsburgh. Department of Agriculture, Harris-

burg. Department of Forests and Waters. Harrisburg.

Engineers' Society of Western Pennsylvania, Pittsburgh. Franklin Institute, Philadelphia. Lehigh University, Bethlehem. Pennsylvania Museum and School

of Industrial Art, Philadelphia. Philadelphia College of Pharmacy, Philadelphia.

Philadelphia Commercial Museum, Philadelphia.

Reading Public Museum and Art Gallery, Reading. Sullivant Moss Society, Pittsburgh.

University of Pennsylvania, Philadelphia. University of Pennsylvania, Mu-

seum, Philadelphia. Wagner Free Institute of Science,

Philadelphia. Wistar Institute of Anatomy and Biology, Philadelphia.

PHILIPPINE ISLANDS:

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

SOUTH DAKOTA:

State School of Mines, Rapid City.

TENNESSEE:

Agricultural Experiment Station, Nashville.

TEXAS:

Agricultural Experiment Station. College Station. Baylor University, Waco. Scientific Society, San Antonio.

University of Texas, Austin.

UTAH:

Agricultural Experiment Station. Logan. University of Utah, Salt Lake City.

VERMONT:

Agricultural Experiment Station. Burlington.

VIRGINIA

Geological Survey, Charlottesville. State Library, Richmond. University of Virginia, Charlottesville.

WASHINGTON:

Agricultural Experiment Station. Seattle.

Department of Conservation and Development, Division of Geology, Olympia. Mountaineer Club, Seattle,

Pacific Northwest Bird and Mammal Society, Seattle. Puget Sound Biological Station. Seattle.

Washington University, Seattle. Washington University, Historical Society, Seattle.

WASHINGTON, D. C.

American Association for the Advancement of Science.

American Association of Museums. American Mining Congress. Archaeological Institute of America. Carnegie Endowment for Interna-

tional Peace (gift). Carnegie Institution of Washington (gift).

Library of Congress. National Academy of Science. National Parks Bulletin. National Research Council. Pan American Union. Science Service. Smithsonian Institution. Tropical Plant Research Foundation. United States Government.

United States National Museum.

WEST VISCISIA

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ARTICLES OF INCORPORATION

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, Secretary of State

To All to Whom These Presents Shall Come, Greeting:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 18th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I. William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN, Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO." $\,$

The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archeology, Science and History.

 The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

 The following named persons are hereby selected as the Trustees for the first year of its corporate existence;

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

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G. E. MITCHELL

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AMENDED BY-LAWS

JANUARY 1929

ARTICLE I

MEMBERS

SECTION 1. Members shall be of eleven classes, Corporate Members, Honorary Members, Patrons, Benefactors, Fellows, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Life Members, Sustaining Members, and Annual Members, and Annual Members, and Section 1988 of the Members of

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of twenty dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

Section 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Any person contributing the sum of Five Thousand Dollars (\$5,000.00) in cash or securities to the funds of the Museum, may be elected a Fellow of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in said Fellowship.

SECTION 7. Any person paying into the treasury the sum of Five Hundred Dollars (\$500,00), at any one time, shall upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 8. Any person paying into the treasury of the Museum the sum of one hundred dollars (\$100.00), at any one time, shall upon the unanimous vote of the Board, become an Associate Members Associate Members shall be entitled to: tickets admitting member and members of family, including non-resident home guests; all publications of the Museum, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Life

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ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President. dent shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

The Treasurer shall be custodian of the funds of the Corporation except as hereinafter provided. He shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

SECTION 2. The securities and muniments of title belonging to the corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely The President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust & Savings Bank of Chicago shall be Custodian of "The N. W. Harris Public School Extension of Field Museum" fund. The bank shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-

Presidents, or any member of the Finance Committee.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

Section 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology and Zoology; each under the charge of a

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ARTICLE VII

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ARTICLE VIII

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to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures as stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall

have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

Section 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Com-

mittee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

Section 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

Section 2. These By-Laws may be amended at any regular meeting of the Board of Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

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INDEX TO HAUSTRATIONS

VOITMAN VII MARK BY SALIAS

·	To	France
Captain Marris Plaid		1
Mertuary At hair Judes Representing the worder course of		
Consula, and Other loser to	* 1	t
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Division for the second	1.1	-
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Natural History	N :	4.4
Utumus Twin Postery Jan Demonsted with Mythologia- Monsters	5 22	::
Branch of Monocot 1 . se	7.222	5-4
Countban Ground Newstell	13	1.9
baud and Jawe of Nouth American Martodon.	1	1.6
Laforense throughof Manua Homy Weavers	1.1	0.1
A cottler a some ca	1.	70.
Court as the contract	4	527
Family princes	5.27	has.
Causeual Painted Pottery Jars Immurated with Mythingural		
Monaters	11	111
The Vall Distallar		
: man't 44: " Mar's	0.0	
Had Informed Montuary Coas Popule Representing a Lady of High Hana or Processor	11111	160
Francia Lewig-Such all incorrect unais	111	149
Group of Rossy Mountain Course	17	100
Mirned M. Craftata	771	170
Beadwork from Triber of Cameroon, West Affice	1.111	1.04
An Aerial Cartier	1 1 1 1 1 1	0.0.0
Mona Seminara of New Yorking	1.11.	1 - 1
Catalog of My wie I beer	2.2.5	1
Type of Case Learned to the between of Change by the 's W. Harris Putter between Instrument of Lead Mosson of		
Jeanuta courry	8,012	
Coptic Chief a Carment of William	1211	: : :
A Turum Palm	7 7 111	2 D a
Carrenes of Agate	1111	141
Corresponded for a Dress of Manga Warness there I take	* 5 %	2 44

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

	Plate No.	Opposite Page
Skull and Jaws of Young Male Mastodon	XXXI	254
Hippopotamus	XXXII	259
Sago Palm Fruits	XXXIII	266
Type of Case Loaned to the Schools of Chicago by the N. W.		
Harris Public School Extension of Field Museum of Natural History	XXXIV	275
Exhibit Illustrating Lightness of Metallic Beryllium	XXXV	282
Group of Olympic Elk or Wapiti	XXXVI	291
Hard Wood Portrait Statue of a Young Woman	XXXVII	298
Black Pepper	XXXVIII	310
Egg-laying Dinosaurs (Protoceratops)	XXXXIX	326
Excavating a Skeleton of the Great Ground Sloth	XL	339
American Gulls and Auks	XLI	346
The Late David C. Davies	XLII	377
Benefactors of Field Museum	XLIII	392
The South Half of Stanley Field Hall.	XLIV	396
Portion of Built-in Case Containing Egyptian Coffins, Mum-		
mies and Burial Cloths	XLV	404
Pignut Hickory	XLVI	412
Mural Painting, Restoration of Horned and Carnivorous Dinosaurs (Triceratops and Tyrannosaurus)	XLVII	420
Red Deer	XLVIII	428
Type of Case Loaned to the Schools of Chicago by the N. W. Harris Public School Extension of Field Museum of		
Natural History	XLIX	436
View of West Half of Hall G, Arthur B. Jones Collection	L	444
American Mountain Sheep	LI	452
Mistletoe	LII	460
Archaic Jades, China	LIII	468
Mural Painting, Restoration of Giant Irish Deer (Cervus megaceros)	LIV	476
Group of Marco Polo's Sheep	LV	484
Type of Case Loaned to the Schools of Chicago by the N. W. Harris Public School Extension of Field Museum of		
Natural History	LVI	492
Cashew.	LVII	500
Mural Painting, Restoration of Armored Dinosaur (Stegosaurus)	LVIII	508
Group of Mountain Nyala	LIX	516
Menangkabau Bride and Groom, Sumatra	LX	524
Skeleton of Extinct Crocodile-like Reptile (Steneosaurus)	LXI	532

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