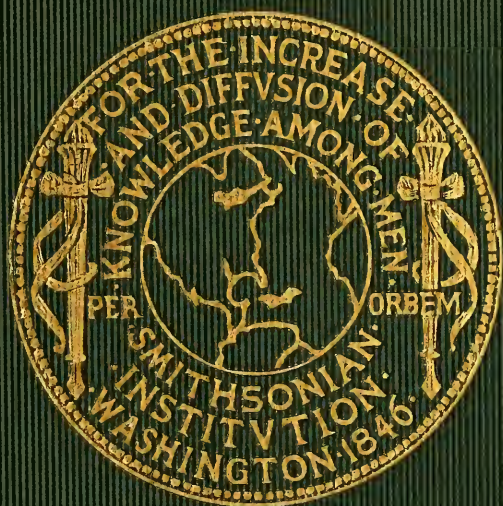


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SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

REPORT ON THE
PROGRESS AND CONDITION OF THE
UNITED STATES NATIONAL MUSEUM
FOR THE YEAR ENDED JUNE 30, 1937



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1938

UNITED STATES NATIONAL MUSEUM,
UNDER DIRECTION OF THE SMITHSONIAN INSTITUTION,
Washington, D. C., October 11, 1937.

SIR: I have the honor to submit herewith a report upon the present condition of the United States National Museum and upon the work accomplished in its various departments during the fiscal year ended June 30, 1937.

Very respectfully,

ALEXANDER WETMORE,
Assistant Secretary.

DR. CHARLES G. ABBOT,
Secretary, Smithsonian Institution.

CONTENTS

	Page
Operations for the year.....	1
Appropriations.....	1
Collections.....	3
Explorations and field work.....	4
Assistance from work relief agencies.....	9
Educational work.....	9
Visitors.....	10
Library.....	11
Publications and printing.....	13
Photographic laboratory.....	14
Buildings and equipment.....	14
Meetings and special exhibits.....	15
Changes in organization and staff.....	17
Detailed reports on the collections.....	19
Department of anthropology.....	19
Department of biology.....	28
Department of geology.....	45
Department of arts and industries.....	55
Division of history.....	70
List of accessions.....	74
List of Museum publications.....	119

REPORT ON THE PROGRESS AND CONDITION OF THE UNITED STATES NATIONAL MUSEUM FOR THE FISCAL YEAR ENDED JUNE 30, 1937

By ALEXANDER WETMORE

OPERATIONS FOR THE YEAR

APPROPRIATIONS

FUNDS FOR THE maintenance and operation of the United States National Museum for the fiscal year ended June 30, 1937, were provided by appropriations carried in the Executive and Independent Offices Act approved March 19, 1936. Allotments for the National Museum are summarized as follows:

Preservation of collections.....	\$604,580
Maintenance and operation.....	134,390
Printing and binding (allotment to Museum).....	25,000
Total available for year.....	763,970

The total amount available for the Museum for 1937 was \$3,228 more than for 1936, but owing to the fact that \$25,000 had been utilized the previous year for the purchase of the airplane *Winnie Mae*, there was actually available, in 1937, \$28,228 more than for 1936, as explained in the following statement of changes in available funds for the year 1937:

Increases:	
Salaries.....	\$7,740
Equipment.....	5,982
Supplies.....	4,998
Printing and binding.....	9,508
Total increase.....	28,228
Decrease (<i>Winnie Mae</i> purchase).....	25,000
Net increase 1937 over 1936.....	3,228

A much-needed increase in the appropriation for printing and binding made available to the Museum for 1937 a total of \$9,508 more than for 1936. Actually somewhat more was expended, for of the Deficiency Appropriation of \$7,500 for binding received in 1936, a portion was expended during 1937. As a result of these increases it was possible to reduce the arrearage of binding as well as to publish a number of manuscripts that had been ready for printing for several

years. Many additional manuscripts are ready for publication when funds permit. The present allotment is less than half the amount that should be available annually for printing and binding to care for our regular needs, to present adequately the results of our scientific investigations and make new information available for public use, and to maintain the library in proper condition.

Five positions were added to the personnel roll during the year—two guards, one stenographer, and two senior mechanics. While the guard force is still below normal strength, the addition of two positions will make it possible to repay to guards a larger portion of the compensatory time they earn by overtime Sunday and holiday service. The stenographic position was a welcome addition to the division of fishes, where there has been no clerical help in the past except as temporary assistance was employed. Still more such positions are needed if clerical help is to be available to each scientific division to care for the files, the constantly mounting volume of correspondence, and other routine work that must be performed now by the professional men themselves. The mechanical force was increased by the addition of a carpenter and a cabinetmaker. The care of storage and exhibition equipment for the growing collections, as well as the increasing deterioration in the building, necessitates occasional increases in this important group of employees.

The increases in funds for maintenance have made possible the purchase of much needed miscellaneous equipment and supplies, principally lumber and paint.

Although there are many requirements for additional funds in connection with the Museum's work, the most urgent need at the present time is that relating to promotions. Another year has passed without the salary promotions earned by many members of the staff. The fact that the Museum is not on the same basis as other Government departments with regard to promotions for efficient service is resulting in constantly growing dissatisfaction among Museum personnel. In the lower grades turnovers are excessive, and many still on the rolls are seeking transfer to other departments where the outlook for promotion is brighter. Unless there is a change it will not be long before it will be difficult to obtain as well as to hold the more efficient personnel, since few can be expected to ignore better opportunities elsewhere.

The further problem of obtaining additional personnel can be met only through increased funds. More workers are urgently needed in all grades, including the curatorial force of both professional and subprofessional status, the clerical staff, and the mechanical, watch, and labor rolls. The work of cleaning the buildings also has increased within recent years, but this can be met best by extending

the hours of labor for the char force from 3 to 5 hours daily, as soon as funds are provided.

There are also definite needs for necessary replacements in supplies and equipment and for the many repairs required as the Museum buildings grow in age. Funds now available cannot care for these repairs, many of which cannot be postponed much longer, nor can they provide for the elimination of certain prevailing fire hazards.

COLLECTIONS

The many specimens added to the Museum collections during the year present the variety and value found annually in our new accessions. The bulk of the material as usual came through scientific expeditions sponsored and in large part financed by the Smithsonian Institution and through gifts from the many friends and collaborators of our organization. The largest number of specimens come always in the field of biology, because of the wide variety of our collections in this group, but numbers are not necessarily a criterion of values, and the smaller lists of the division of history and the department of arts and industries, for example, include many objects of rare and unusual worth.

New material was received in 1,800 separate accessions, with a total of 361,951 specimens distributed among the five departments, as follows: Anthropology, 1,790; biology, 292,250; geology, 62,757; arts and industries, 3,180; and history, 1,974.

For examination and report 1,393 lots of specimens were received, including a vast variety of objects. A part was returned by request to the senders, a part was consumed and destroyed during the process of examination and analysis, and a part was incorporated as gifts in the Museum collections.

Gifts of duplicates to schools and other institutions numbered 5,006 specimens, including a great variety of objects. Exchanges of duplicate materials with other institutions and individuals totaled 22,403 specimens, and one specimen was transferred to another governmental agency. Loans to workers outside of Washington totaled 50,092 specimens.

Following is a summary of entries now included in the Museum catalogs:

Anthropology.....	685, 523
Biology.....	12, 270, 161
Geology.....	2, 462, 764
Arts and industries.....	127, 515
History.....	499, 299
Total.....	16, 045, 262

EXPLORATIONS AND FIELD WORK

The scientific explorations of the year were varied and important in the results obtained. The various investigations made were financed mainly by grants from the income of the invested funds of the Smithsonian Institution or by the assistance of friends of the Institution.

In October, Henry B. Collins, Jr., assistant curator of ethnology, returned from Wales, Alaska, where he conducted archeological investigations under the joint auspices of the National Geographic Society and the Smithsonian Institution. Accompanying him as assistants were James A. Ford and Harrison Prindle. Previous work on St. Lawrence Island and at Point Barrow had revealed the existence of an ancient but already highly developed Eskimo culture, with intermediate stages between it and the modern Eskimo. One objective of the expedition was a search for pre-Eskimo remains in the vicinity of Bering Strait, where, according to all indications, man may first have entered the American Continent. Definite evidence on the sequence of prehistoric Eskimo cultures was obtained, but nowhere were observed traces of human occupancy antedating that of the Eskimo.

In this same month Herbert W. Krieger, curator of ethnology, left for Nassau, New Providence Island, to conduct archeological investigations in the Bahaman Archipelago under a grant from the Smithsonian Institution. Kitchen middens and burials on Long Island, Inagua, and New Providence Island were excavated. The archeological data uncovered point to a close cultural contact between the Lucayan Indians of the Bahamas and the Arawak of Hispaniola and also to the tribal migration of the Lucayans at a comparatively recent date from the island of Hispaniola. The kitchen middens excavated were comparatively shallow, and the objects recovered revealed no striking dissimilarity to those of the Arawak middens of Fort Liberté Bay and of the Monte Cristi-Yaque River Basin of the north coast of Hispaniola. A striking cultural migration was observed in the many polished stone implements recovered from Bahaman middens identical with those of northern Hispaniola and fashioned from stone native to that island but foreign to the Bahamas. Mr. Krieger returned in February 1937.

Dr. Waldo R. Wedel, assistant curator of archeology, devoted occasional week ends to supervision of excavations at an Indian village site near Seneca, Montgomery County, Md. On May 15, 1937, he left to conduct for the Smithsonian Institution a general archeological survey of northeastern Kansas and to excavate part of an old Kansa site near Kansas City. He was still in the field as the year closed.

Dr. Aleš Hrdlička, curator of physical anthropology, after concluding excavation of the site on Kodiak Island during June 1936, spent July and August investigating sites on the Aleutian Islands. In this work he was assisted by four students—Sydney Connor, George Corner, Alan G. May, and M. F. M. Osborne. The United States Coast Guard again facilitated the work by furnishing the necessary transportation, without which it would have been impossible to have reached Kagamil Island, where an important burial cave was located. In May 1937 Dr. Hrdlička returned to the Aleutian Islands to continue these explorations.

Dr. T. Dale Stewart, assistant curator of physical anthropology, assisted private investigators along the Potomac River by visiting sites that have produced numerous Indian burials, especially the large ossuaries excavated by Mrs. A. L. L. Ferguson and Judge William J. Graham. Together with Dr. Wedel he excavated two ossuaries at Bolling Field, Anacostia, D. C.

In the department of biology the year has been especially fruitful through field work carried on by the staff.

G. S. Miller, Jr., curator of mammals, assisted by Charles M. Wheeler, of Hatchville, Mass., spent 3 months (Jan. 23 to Apr. 26) in Panama making collections of general interest to the Museum. With Corozal, Canal Zone, as a base, work was carried on over most of the Zone from the region of Gatun and Barro Colorado to the Pacific coast, as well as over a distance of about 50 miles out from the Zone in each direction along the line of the national highway of Panama. Special side trips were made to the Pearl Islands, to Taboga Island, and to the Indio River. Thanks to the cordial cooperation of the civil and military authorities of the Canal Zone, of the Institute for Research in Tropical America at Barro Colorado, and of the Gorgas Memorial Laboratory in Panama City, the work of the expedition went forward under the best possible conditions. The material brought home includes approximately 450 mammals, 150 birds, 150 reptiles and amphibians, and 400 plants, as well as many fishes, shells, marine invertebrates, Indian artifacts, and food shells (samplings from middens on Taboga and Taboguilla Islands and in the Canal Zone).

H. G. Deignan continued collecting in Siam and sent in three large shipments of birds and other material. His work now being terminated, he is expected to return to Washington in the fall. Dr. Alexander Wetmore collected birds in the highlands of Guatemala in October and November 1936 and brought back valuable series of desirable specimens. W. M. Perrygo and Carleton C. Lingeback collected extensively in West Virginia in the autumn of 1936, and in Tennessee in the spring and early in the summer of 1937. The work in Tennessee was carried on through the W. L. Abbott Fund.

Dr. David C. Graham continued his work in western China, forwarding collections mainly of birds and insects.

Dr. Leonard P. Schultz, assistant curator of fishes, and E. D. Reid, aide, made several successful collecting excursions into Virginia as part of a survey of the fresh-water fish fauna of that State.

Dr. E. A. Chapin, curator of insects, sailed for Jamaica by way of Habana, Cuba, on January 21, 1937. In the 24 hours available at Habana, with the aid of an official car and chauffeur placed at his disposal by the Secretary of Agriculture of the Cuban Government, he visited the home of Alex. Bierig, a specialist on Staphylinidae, the Institute of Habana to examine the Scarabaeidae in the Gundlach collection, the University of Habana to examine the collection of insects there under the care of Dr. C. G. Aguayo, and the Agricultural experiment station at Santiago de Las Vegas to discuss matters pertaining to the identification of insects for the station. In Jamaica work was carried on in conjunction with Dr. and Mrs. R. E. Blackwelder. During the first 2½ weeks, Dr. Chapin had headquarters at Half Way Tree, from which place the entire eastern one-third of the island is available by car. The collections of the Agricultural Department, situated at Hope Gardens, were also readily accessible. On February 11 he moved headquarters to the west half of the island and spent a few days at Derry House and 10 days at Kensworth House. These residences were placed at the disposal of the party by the owners, who did everything possible to facilitate the work. During the last week Dr. Chapin and party returned to Half Way Tree to do more collecting at one or two choice localities at the east end of the island. They left Jamaica for New York on March 6. Much assistance was given by interested parties on the island, notably by the Bovells at Caymanas Sugar Estate and by Mr. Nethersole, who offered collecting facilities at his residence. The collections made form a very valuable addition to the West Indian series. Several families of beetles hitherto unknown from the island were taken, and many species recognized as new to science were secured. Though a previous collector on the island had recorded that Dryopidae appeared to be nonexistent there, over a thousand specimens of this family, representing seven species, were taken. A new and very interesting coccinellid of the genus *Psyllobora* was found feeding on a mold growing upon the leaves of beach-grape (*Coccoloba uvifera*), and at least two undescribed species of Scarabaeidae have been recognized in the material collected.

Dr. Waldo L. Schmitt, curator of marine invertebrates, was naturalist on the Smithsonian-Hartford expedition to the West Indies, traveling on the square-rigged ship *Joseph Conrad*, through invitation of G. Huntington Hartford, owner, and accompanied by Robert G. Lunz, of the Charleston Museum, as assistant. The party

began work in the field at Nassau in the Bahamas on March 15, and during the next 2 months traveled south as far as Barbados. The cruise in all was most successful, covering about 4,500 miles and making 19 stops for collecting on 15 different islands. The expedition was occupied essentially with marine material, mainly invertebrates but including also algae and two adult porpoises, in one of which was found an embryo. The excellent equipment in form of diving helmets and other gear, and the continued friendly interest of Mr. Hartford throughout the cruise, insured the complete success of the work. In addition to the enthusiasm always aroused by interesting and varied collections, the naturalists had the delight of traveling on one of the last square-riggers afloat. More than 4,000 specimens of marine invertebrates were secured, chiefly Crustacea but including also sponges, coelenterates, annelids, and lower chordates. Fishes, echinoderms, mollusks, a few fossils, and minerals were also obtained.

Dr. Paul Bartsch, curator of mollusks, as member of the Smithsonian-Roebing expedition to the Caribbean Sea and the Gulf of Mexico, left Washington on March 21 to join Donald Roebing's yacht, the *Iorano*. The party assembled at Clearwater, Fla., and from there crossed to Cuba, where work was carried on from Habana around the western end of the island and along the south coast as far as Guantanamo. The shallow draft of the yacht and her rapid speed were especially favorable for obtaining extensive marine collections over a wide area previously poorly represented in the Museum's collections. The material is now under study and is being rapidly identified.

Sponsored by the Smithsonian Institution, Dr. R. S. Bassler, head curator of the department of geology, spent the first 3 months of the fiscal year in geological studies of several classic European areas and in researches on echinoderms and other fossils in the collections of museums in England, Germany, and the Netherlands. The main results of his trip were the completion of studies on several families of Paleozoic corals, the study of types of Paleozoic sponges, the preparation of about 600 casts of Upper Paleozoic crinoid types, collections of Tertiary fossils from the Paris, Vienna, and London Basins and the Devonian area of Germany and Czechoslovakia, and arrangements with a number of institutions for exchanges.

Under the auspices of the Roebing Fund, E. P. Henderson, assistant curator of physical and chemical geology, spent several months on Prince of Wales Island, Alaska, accompanied by Arthur Montgomery, Edwin Over, and C. B. Ferguson. The object of this expedition was to collect specimens of epidote and other minerals for which this locality is famous, and in this the party was highly suc-

cessful. Hundreds of fine crystals of epidote and thousands of garnets were collected, as well as many miscellaneous minerals. This material has been made the basis for investigations of the mineralogy of the region.

Mr. Henderson, under a grant from the Smithsonian, left early in May 1937 to attend the Seventeenth International Geological Congress at Moscow, U. S. S. R., visiting en route many of the important European museums and collections, and making contacts and exchange relationships that promise exceptionally satisfactory results.

From July 14 to September 11, 1936, Dr. G. A. Cooper, assistant curator of stratigraphic paleontology, with Preston E. Cloud as field assistant, visited Middle Devonian localities in the Middle West. The object of the trip was to collect fossils and study the relationships of the Middle Devonian rocks. In Indiana contact was made with Guy Campbell, a student of Devonian rocks. The party was guided in Missouri by Dr. D. K. Greger, of Washington University, St. Louis; by Dr. M. A. Stainbrook, in Iowa; and in Michigan by geologists from the University of Michigan. Dr. Cooper and Mr. Cloud spent June 1937 in further field work on the Middle Devonian rocks of Michigan, New York, and Ontario, making a final review of field relations and collections of fossils. Further account of this trip is deferred until next year.

Dr. E. O. Ulrich, associate in paleontology, accompanied by R. D. Mesler, of the United States Geological Survey, spent May in field work in Arkansas and nearby States collecting fossils and securing information to elucidate certain problems in Lower Ordovician stratigraphy. The extensive collections from certain little-known formations that resulted will form the basis of future publications.

C. W. Gilmore, curator of vertebrate paleontology, accompanied by Dr. Remington Kellogg, made two short trips to the Chesapeake Bay region to collect cetacean specimens previously located by Dr. W. F. Foshag. This work resulted in adding several porpoise skulls and other specimens to the collection from this region.

Dr. C. L. Gazin, assistant curator of vertebrate paleontology, with funds provided by the Smithsonian Institution, conducted an expedition in the San Juan Basin of New Mexico during the summer season of 1936 to explore the Eocene Wasatch and the Puerco and Torrejon formations of the Paleocene for fossil mammal remains. Besides Dr. Gazin, the party included G. F. Sternberg and Harold Shepherd, and they were successful in securing a representation of the important faunas from these classic early Tertiary horizons. The collections included about 500 determinable specimens from the Paleocene alone. Later in the season activities were transferred to Arizona, where explorations were conducted in the Pliocene formations of the Gila and San Pedro Valleys.

Dr. R. Lee Collins, of Bryn Mawr, was given a small grant by the Smithsonian Institution for work in the Miocene deposits along Chesapeake Bay. He made numerous short collecting trips and obtained a number of cetacean specimens, parts of a sirenian, and two bird bones.

ASSISTANCE FROM WORK RELIEF AGENCIES

At the beginning of the year, persons assigned from the Works Progress Administration of the District of Columbia to work at the Museum numbered 66. This number fluctuated during the year owing to transfers and new assignments, but it increased slowly until at the close of the year 88 were so engaged. Man-hours for the period July 1, 1936, to June 30, 1937, totaled 87,915. For the Federal art project the man-hours totaled 1,504, making the grand total of man-hours for both projects 89,419.

As in the preceding year this assistance related to preserving and cataloging collections in the Museum and to general work in the library. Specific tasks included the following:

Checking, labeling, and repairing library material.

Preparing drawings and photographs.

Typing notes and records.

Miscellaneous work on specimens, including arranging, cataloging, checking, labeling, and numbering.

Model making and repair.

Preparing and mounting specimens.

Labeling and drafting.

Translating.

Work on plaster casts.

During the year considerable progress was made in clearing up arrearages in work that had been accumulating over a long period owing to the inadequacy of our regular staff. The project proceeded smoothly, not only as a result of the efficient organization now developed but also because many of the workers had gained experience from the previous year. The District of Columbia Works Progress Administration office continued its excellent cooperation in the selection and assignment of new workers.

At the close of the year 88 workers were on duty from the Works Progress Administration and 2 from the Federal art project.

EDUCATIONAL WORK

The National Museum during the year continued its customary activities in educational lines. Our exhibition halls display great series of objects so arranged as to demonstrate facts of many kinds, on subjects ranging from the tools and dress of primitive man to complicated modern machinery, examples of the life of strange

lands, of the elements that compose the earth, fossil animals and plants of former ages, and many other things. Descriptive labels accompany all these, and there is constant change to keep them properly arranged and up to date. The whole serves as a compendium of reference to the student or as an attractive display to the one of more casual interest, from which all may profit according to their desires.

In addition, the Museum is constantly active in the dissemination of knowledge in response to many hundreds of inquiries that come by mail or from visitors. Classes from the city schools are guided through the halls, and groups of students from a distance are given similar service. Although the Museum does not maintain regular series of lectures, members of the staff are called on frequently to address meetings. Students throughout the country interested in definite problems come to work with our collections and libraries, and frequently workers from abroad are engaged in investigations here that sometimes continue for months. From this it may be seen how widely varied is the range of our educational activities and how extensive the field that they cover.

VISITORS

For the first time, the number of visitors to the various Museum buildings exceeded the 2,000,000 mark, the total for the year being 2,288,532, which is 314,859 more than the previous year. The 351,219 visitors during August 1936 is the largest number ever recorded for a single month.

TABLE 1.—Visitors to the Museum buildings during the year ended June 30, 1937

Year and month	Smithsonian Building	Museum buildings			Total
		Arts and Industries Building	Natural History Building	Aircraft Building	
1936					
July.....	47, 202	124, 716	73, 525	23, 542	268, 985
August.....	61, 327	165, 139	96, 620	28, 133	351, 219
September.....	43, 129	116, 849	69, 872	21, 343	251, 193
October.....	21, 201	72, 472	49, 906	8, 804	152, 383
November.....	13, 764	41, 466	36, 078	6, 365	97, 673
December.....	9, 932	28, 969	28, 321	6, 042	73, 264
1937					
January.....	11, 385	37, 635	30, 277	6, 341	85, 638
February.....	14, 793	42, 950	32, 993	6, 509	97, 245
March.....	24, 142	66, 428	50, 826	12, 486	153, 882
April.....	45, 751	140, 650	89, 210	16, 868	292, 479
May.....	31, 796	100, 024	68, 835	14, 537	215, 192
June.....	39, 635	113, 090	76, 194	20, 460	249, 379
Total.....	364, 057	1, 050, 388	1 702, 657	171, 430	2, 288, 532

¹ Not including 3,153 persons attending meetings after 4:30 p. m.

The average attendance for weekdays was 6,148 and for Sundays 7,241. The number of visitors to the Smithsonian Building on weekdays totaled 300,666 and on Sundays 63,391; to the Arts and Industries Building 866,096 on weekdays and 184,292 on Sundays; and to the Aircraft Building 171,430 on weekdays (closed on Sundays). Table 1 shows the number of visitors during each month of the year.

In connection with the weekly radio program, "The World is Yours", arranged cooperatively by the Smithsonian Institution and the Office of Education of the Department of the Interior, a register was placed at the south entrance of the Natural History Building with the request that those interested in the program sign. This was maintained for a total of 98 days during parts of February and March and from April 20 to June 15. During this time 8,505 persons registered, approximately 5 percent of the total visitors for the period. A tabulation of the signatures reveals the interesting fact that they included visitors from each one of the 48 States of the Union as well as Alaska, the Canal Zone, Hawaii, Puerto Rico, and the Philippine Islands. Foreign countries represented include Australia, Canada, Dominica, England, France, Germany, Honduras, India, Ireland, Italy, Mexico, Norway, Palestine, Russia, South Africa, Spain, Sweden, Switzerland, and Venezuela. The result is a most gratifying indication of the wide field of attraction that the National Museum through its public exhibitions affords the many persons who come to the Capital City of the United States, not only from our own country but also from the entire world.

LIBRARY

The library of the National Museum, numbering 92,532 volumes and 114,610 pamphlets, is one of the main branches of the Smithsonian library. It has 2 major collections, those on natural history and technology, and 35 smaller sections pertaining to the special interests of the curators and their assistants. The accessions to the library during the year were 2,486 volumes, 10,364 parts of volumes, and 951 pamphlets, or 13,801 publications—an increase of 350 over the year before. Of these, 2,458 were obtained from duplicate sets at the Smithsonian Institution and the Library of Congress or by special exchange. New exchanges arranged for numbered 121.

The accessions included a number of especially large sendings from learned societies and institutions in Great Britain, Germany, and Belgium. Among them, too, were many gifts from members and friends of the Smithsonian staff. Special mention should be made of the gift of 4,422 publications, chiefly botanical in character, from the widow of Dr. Frederick V. Coville, for many years honorary

curator of the National Herbarium and a wise and generous counselor to the Smithsonian Institution.

The library staff recorded 10,395 periodicals, cataloged 3,033 volumes and pamphlets, and added 13,642 cards to the catalogs and shelf lists. They sent to the bindery 1,846 volumes, most of which were prepared during the year. To the sectional libraries they assigned for filing 4,345 publications and loaned 10,409, of which they borrowed 1,942 from the Library of Congress and 386 elsewhere. The number of volumes they returned to the Library of Congress was 2,112 and to other libraries 414. They made 196 interlibrary loans, chiefly to Government offices and to universities and other research institutions. They sorted 4,000 or more old and incoming documents not pertinent to the work of the Museum and returned them to the issuing bureaus. As no new Concilium Bibliographicum cards were received, they had time to complete the revision, begun the previous year, of the file of the author set in the main library, thus increasing materially the usefulness of this important aid. They also brought the Wistar Institute file up to date by adding 480 new cards. They continued, with gratifying results, the scanning of nontechnical journals for articles of possible interest to the scientists. Finally, they supervised the various tasks of 15 Works Progress Administration workers.

The sectional libraries continued to number 35, as follows:

Administration	Invertebrate paleontology
Administrative assistant's office	Mammals
Agricultural history	Marine invertebrates
Anthropology	Medicine
Archeology	Minerals
Biology	Mollusks
Birds	Organic chemistry
Botany	Paleobotany
Echinoderms	Photography
Editor's office	Physical anthropology
Engineering	Property clerk's office
Ethnology	Reptiles and amphibians
Fishes	Superintendent's office
Foods	Taxidermy
Geology	Textiles
Graphic arts	Vertebrate paleontology
History	Wood technology
Insects	

At the close of the fiscal year the staff assisted in the temporary transfer of 7,000 or more volumes of the technological library from the east gallery of the third floor in the Arts and Industries Building to the adjoining storage ranges of the division of history, in preparation for the installation of new steel stacks, which it is expected will be received and set up during the summer. The increased shelf

room provided by these stacks will make it possible to complete the reorganization of the library collections in the Old Museum that was undertaken several years ago.

Two definite needs should be mentioned: (1) More money for binding, for, notwithstanding the generous deficiency appropriation available for this purpose during the past year, the Museum still has thousands of unbound volumes and is receiving new ones daily; (2) more money for purchasing publications that are needed by the Museum staff but that cannot be obtained by exchange.

The year brought two changes in the staff. Miss Lucile Torrey, senior stenographer, was made library assistant in the National Gallery of Art (now the National Collection of Fine Arts), and Mrs. George C. Rodgers, who had formerly held the stenographic position, was reinstated in it. Carroll M. Martin, assistant messenger, was transferred to the Social Security Board, and the vacancy was filled by the transfer of Joseph Salat, Jr., from the Government Printing Office.

PUBLICATIONS AND PRINTING

There was available \$22,000 for the fiscal year 1936-37 for the printing of the National Museum Annual Report, Bulletins, and Proceedings. This was an increase of \$17,950 over the amount available for publications the previous year, and a corresponding increase in volume of publication was reflected. Thirty-three publications were issued—the Annual Report, 1 volume of Proceedings completed, 2 Bulletins, and 29 separate Proceedings papers. These are listed at the end of this report.

The distribution of volumes and separates to libraries and individuals on the regular mailing lists aggregated 58,419 copies, while in addition 10,403 copies of publications issued during this and previous years were supplied in response to special requests. The mailing lists were carefully revised during the year to avoid loss in distribution.

During the year 765,056 forms, labels, and other items were printed, and 1,952 books were bound.

Indexing.—As opportunity allowed, the editor and his assistant continued work on the comprehensive index of all Museum publications, and the task was completed through Bulletin 47 (entire) and Proceedings volume 17. The editor also prepared the index for volume 83 of the Proceedings and for Bulletin 167, "Life Histories of North American Birds of Prey: Part 1, Falconiformes."

Museum print shop.—An important step in the advance of Museum efficiency was the thorough overhauling and equipping of the Museum's Branch Printing Office early in the year. Through the

generous cooperation of the Public Printer, A. E. Giegengack, a reconditioned linotype machine, fully equipped with all tools and accessories, was installed by the Government Printing Office, together with an adequate number of new type faces suitable for Museum label work.

The Branch Printing Office is an important unit in the efficient functioning of the Museum, for in it are produced all the labels that explain the exhibits to visitors, nearly all the record labels attached to the hundreds of thousands of specimens in the study collections, and a large part of the forms used in the routine accessioning and other work of the curators. The new typesetting and printing equipment and the excellent new type faces enable the shop to turn out a better quality of printing in much less time than formerly, with the result that for the first time in many years the labeling and job-printing work of the Museum is practically up to date. For making possible this forward step the Museum is deeply grateful to all the officials of the Government Printing Office who assisted in the installation of the equipment and especially to Mr. Giegengack for his personal interest and cooperation.

PHOTOGRAPHIC LABORATORY

The photographic laboratory during the year made 3,888 negatives (including 72 photomicrographic studies), 22,158 prints, 657 lantern slides, 266 enlargements, and 5 transparencies; developed 74 rolls, 65 film packs, and 42 cut films; mounted 140 prints; and opaqued 9 negatives. This work includes, in addition to that done for the Smithsonian Institution proper and the National Museum, photographic needs supplied the Bureau of American Ethnology and the National Collection of Fine Arts through a cooperative arrangement. The year was a record one in amount of work done by the laboratory, especially in numbers of prints and negatives made.

Since color-print processes are becoming stabilized, attention is being turned to the production of negatives for color photography. The laboratory is now equipped with dupacks and tripacks as well as one-shot color cameras to meet the Museum's needs in this comparatively recent photographic development.

BUILDINGS AND EQUIPMENT

Repairs and alterations.—Repairs to Museum buildings and equipment during the year included the following, in addition to those of a routine nature:

Repainting offices of assistant secretary, head curator of anthropology, and property clerk and the rooms of the divisions of insects and textiles.

Painting exterior metal window frames of the Natural History Building and tin roofs of the Arts and Industries Building, and repairing and repainting exterior window and door frames and walls of the Smithsonian Building.

Extensive repairs, rewiring, and reconditioning in the taxidermist shop.

Completion of installation of new electric-wiring system in the east end of Smithsonian Building, begun last year, so that the considerable fire hazard of the old system has been entirely eliminated.

Heat, light, and power.—For heating the group of Museum buildings 58,427,000 pounds of steam, furnished by the Government central heating plant, were used during the year, 4,400,000 pounds less than the previous year. The electric current used, 1,348,900 kilowatt-hours, was a little more than last year.

Ice production.—The refrigerating machine for manufacturing ice for the Museum buildings was operated 3,980 hours during the year, producing 414.7 tons of ice at the rate of \$2.02 a ton.

Fire protection.—The greatest advance made during the year in eliminating fire hazards was the completion of the rewiring of the east end of the Smithsonian Building. The system as now installed complies in a general way with the National Electrical Code and is thought to be as safe as it can be made in a building of this character. Further fireproofing measures for the east end of the Smithsonian Building, including remodeling of the mail room, are in prospect.

Pursuant to an appropriation made by Congress for the purpose, a new 8-inch water main is to be run from Constitution Avenue to the Natural History Building and new hose and other equipment provided that will greatly facilitate fire protection.

All the fire-protection apparatus was given its periodic testing and inspection during the year.

Furniture and fixtures.—The furniture added during the year included 16 exhibition cases; 594 pieces of storage, office, and laboratory furniture; and 2,026 drawers. Equipment condemned and disposed of consisted of 33 exhibition cases and bases; 91 pieces of storage, office, and laboratory furniture; and 100 drawers and frames. An inventory of furniture on hand on June 30, 1937, showed 3,726 exhibition cases; 18,646 pieces of storage, office, and laboratory furniture; and 110,503 drawers, boxes, and frames of various kinds.

MEETINGS AND SPECIAL EXHIBITS

Educational, scientific, and welfare organizations are granted the use of the auditorium and lecture room in the Natural History Building for regular and special meetings, and whenever possible the Museum assists in carrying out their programs. During the year 112

such meetings were held, including the following conferences and conventions: Third World Power Conference and Second Congress on Large Dams, in September; the Vertebrate Section of the Paleontological Society of America, in December; the American Society of Photogrammetry, in January; and the American Society of Mammalogists concurrently with the American Society of Ichthyologists and Herpetologists, in May. Noteworthy also were lectures by Dr. Aleš Hrdlička on "Anthropological Field Work in Alaska"; M. W. Stirling on "By Airplane to Pigmyland"; Dr. Samuel A. Mitchell on "Discoveries from Eclipse Expeditions"; Dr. F. A. Vening-Meinesz on "Gravity on the Atlantic Ocean"; and Dr. Arthur A. Allen on "American Ornithology, Past and Present."

Special exhibits.—The foyer and adjacent space of the Natural History Building were used almost continuously during the year for a series of 16 special exhibits conducted under the auspices of various educational, scientific, and governmental agencies, as follows:

- July 1 to August 10, 1936: Exhibition of "The Index of American Design", assembled by the Federal art project, Works Progress Administration.
- August 15 to September 15, 1936: Special exhibit in connection with the Third World Power Conference.
- September 16 to October 8, 1936: Exhibition of "The American Guide", assembled by the Federal writers' project, Works Progress Administration.
- October 10 and 11, 1936: Exhibition of roses by the Potomac Rose Society.
- October 13 to 31, 1936: International High School Art Exhibition, sponsored by the American Federation of Arts and The Scholastic.
- November 1 to 30, 1936: Exhibition entitled "New Horizons in American Art", under auspices of the Federal art project, Works Progress Administration.
- December 1 to 15, 1936: Philatelic exhibit, sponsored by the Collectors' Club of Washington, D. C.
- December 16 to 31, 1936: Second exhibition of "The Index of American Design" of the Federal art project, Works Progress Administration.
- January 4 to February 6, 1937: Exhibition of wrought ironwork, under direction of Department of Anthropology, United States National Museum.
- February 9 to March 10, 1937: Exhibit of a collection of photographs of early American architecture in Virginia, Maryland, North Carolina, South Carolina, and Florida, assembled by Miss Frances B. Johnston.
- March 1 to 31, 1937: Exhibit of Japanese painted textiles collected by Mrs. Charles D. Walcott, under direction of the Department of Anthropology, United States National Museum.
- March 18 to 31, 1937: Exhibition of running train models, by the Baltimore & Ohio Railroad.
- April 5 to May 20, 1937: Exhibition of wild-flower seeds, prepared by P. L. Ricker, president of the Wild Flower Preservation Society.
- April 9 to 29, 1937: Exhibition of paintings entered in the Second Annual Metropolitan State Art Contest sponsored by the National Gallery of Art and the District of Columbia Federation of Women's Clubs.
- May 3 to 29, 1937: Sixth annual architectural exhibit of the Association of Federal Architects.
- June 7 to 30, 1937: Exhibition of elementary aircraft, consisting of ancient and modern kites and boomerangs from the collections of the Divisions of Engineering and Ethnology, United States National Museum.

CHANGES IN ORGANIZATION AND STAFF

There was no major change in the administrative organization of the United States National Museum during the year, and the changes in the scientific staff were few. The designation of the carpenter shop was changed in April 1937 to cabinet shop to indicate better its functions, and steps were taken for the appointment of an assistant foreman of the shop to be directly charged with its building-repair activities.

Through death the Museum lost during the year three employees from its active roll: William H. Vanneman, principal guard, on August 20, 1936, after 39 years of service; Frank M. Cheeks, laborer, on January 3, 1937, after 27 years of service; and William C. McKinnon, guard, on February 13, 1937, after 13 years of service. From its list of honorary workers, the Museum lost by death on January 9, 1937, Dr. Frederick Vernon Coville, honorary curator of plants since March 28, 1893, associated with the work of the division of plants for many years, and one of those deeply interested always in furthering our botanical work.

Eight persons were retired for age or disability, as follows—Through age: Frank H. Cole, assistant mechanical superintendent in charge of the carpenter shop, on February 28, 1937, with over 39 years of service; William F. Wicks, guard, on May 31, 1937, with 10 years of service; Minor R. Stonnell, tinner's helper, on June 30, 1937, with nearly 27 years of service; Mrs. Hanorah Downey, attendant, on October 31, 1936, with nearly 25 years of service; and Mrs. Elizabeth Merritt, charwoman, on November 30, 1936, with nearly 22 years of service. Through disability: William Henry Goldsmith, foreman of laborers, on April 30, 1937, with 41 years of service (Mr. Goldsmith died on May 4, 1937, 4 days after his retirement); Mrs. Elizabeth E. Dorsey, forewoman of charwomen, on June 15, 1937; and Mrs. Gertrude Green, charwoman, on May 6, 1937.

Dr. George S. Myers resigned as assistant curator of fishes on September 15, 1936, to accept appointment at Stanford University. Dr. Leonard P. Schultz, of the University of Washington, was appointed to succeed Dr. Myers on December 31, 1936. Dr. Waldo R. Wedel was appointed assistant curator of archeology on August 15, 1936. The designation of Dr. William R. Maxon as head of the division of plants (the National Herbarium) was changed from associate curator to curator on February 1, 1937. Mrs. Agnes Chase, senior botanist in the United States Bureau of Plant Industry, long associated with the late Dr. A. S. Hitchcock, was given honorary appointment on February 15, 1937, as custodian of the section of grasses in the Museum.

Other additions to and changes on the staff during the year included the appointments of Henry Kaskowitz as junior scientific aide in the division of vertebrate paleontology on August 1, 1936, and of Andreas J. Andrews as scientific aide in the department of anthropology on May 14, 1937; the reallocation of Mrs. Bertha T. Carwithen to senior clerk (assistant personnel officer) on February 16, 1937; the appointment of Owen F. Croggon, senior mechanic (senior cabinetmaker), on July 1, 1936, to fill a new position included in the appropriations for the year; the advancement of John H. Chance to assistant engineer on September 19, 1936; of Ernest Desantis from guard to principal guard (sergeant of watch) on November 1, 1936; and of John J. Queeney from guard to foreman of laborers on June 19, 1937.

On January 1, 1937, Norman H. Boss, chief preparator in vertebrate paleontology, returned to duty from a temporary detail to the Texas Centennial Exposition at Dallas, and on June 16, 1937, he was detailed as exhibit supervisor for the Smithsonian at the Greater Texas and Pan American Exposition at Dallas.

The British Government extended invitation to the Government of the United States to participate in a whaling conference to convene in London on May 24, 1937. Dr. Remington Kellogg, assistant curator of mammals, was one of the three delegates to represent the United States at this conference.

Under Executive orders prescribing regulations governing annual leave and sick leave for Government employees, a revised method of keeping time of employees was established in conformity with usage in other Government departments, as recommended by the United States Civil Service Commission. This was inaugurated on January 1, 1937.

DETAILED REPORTS ON THE COLLECTIONS

DEPARTMENT OF ANTHROPOLOGY

(FRANK M. SETZLER, *Acting Head Curator*)

During the past fiscal year the department of anthropology was fortunate in having three major archeological expeditions in the field. The curator of physical anthropology during July and August 1936 made a reconnaissance and directed excavations at several sites on the Aleutian Islands. During May and June 1937 he again resumed his investigations on this interesting chain of islands. The curator of ethnology continued his archeological studies in the West Indies, where from October to February his efforts were concentrated in the Bahaman Archipelago. The assistant curator of ethnology directed the National Geographic Society-Smithsonian Institution archeological project at Wales, Alaska, during July, August, and September. The assistant curator of archeology was in the field during the latter half of May and June 1937, inaugurating an archeological survey in Kansas. He, together with other members of the staff, also made minor investigations along the Potomac River whenever time permitted.

The majority of the anthropological specimens were obtained this year from the above explorations, the number received as gifts through friends of the organization being less than in previous years.

ACCESSIONS

Archeology.—The division of archeology during the year received 38 accessions, totaling 307 specimens. Four of these (64 specimens) were allotted to collections from the Old World. The following are noteworthy: The replica of a stuccoed vase from Uaxactun, Guatemala, presented by the Carnegie Institution of Washington; an original Maya vase from Lake Petén, Guatemala, a gift from Mrs. Frederick Leslie Ransome; one ivory harpoon socket belonging to the old Bering Sea culture from St. Lawrence Island, Alaska, donated by Capt. E. D. Jones; 29 Neolithic stone artifacts and potsherds from three localities in South Africa, presented by Wilfrid C. Abbott, of Capetown; an earthenware effigy vessel from the Bull Creek burial site near Columbus, Ga., loaned by Mrs. Isabel Garrard Patterson; 52 bone and stone artifacts from the Rat Island group, western Aleutian Islands, Alaska, a gift from Lt. H. B. Hutchinson, Annapolis, Md.; 21 stone artifacts and potsherds from a single site in Virginia, presented to the Museum by E. B. Fetty

and J. E. Butler; one large quartzite blade from a spring hole near Lost Spring, Black Mountains, Mohave County, Ariz., donated by H. Jermain Slocum.

Ethnology.—The total number of accessions assigned to ethnology was 60, comprising 667 specimens. A few of the outstanding are here listed in the order of their ethnological importance. As in previous years, several unusual specimens were presented to the division through the generosity of Mrs. Charles D. Walcott. These include a handsomely decorated modern Peyote fan made by the Kiowa Indians of Anadarko, Okla.; a Navaho shoulder blanket showing Pueblo influence, dating from the Bosque Redondo period of 1864; 13 specimens from Hawaii, including poi bowls, a gourd net, a lava figurine, and woven mats; and two excellent examples of shrunken heads from the Jivaro Indians of South America. Other accessions include a number of woven fabrics and basketry from Madagascar, and chased copper and silver objects from Kashmir, India, collected by the late Dr. W. L. Abbott about 1890, and presented by Miss Gertrude Abbott; ethnological material from Dahomey, Cameroons, and Nigeria, Africa, from C. C. Roberts; several ethnological objects (baskets, carved wooden idols, wooden combs, carved ivory figurines, grass cloth, and the like) from the vicinity of Shabunda, District de Maniema, Belgian Congo, collected for the Museum by Miss Ellen I. Burk. Miss Gertrude H. Merrill donated a series comprising storage basket, earthenware water jar, comb of buffalo bone, and hardwood snuff bottle, which she obtained among the Ndau tribe, Portuguese East Africa and Southern Rhodesia. Six pieces of Tibetan jewelry were given by Mrs. Kate S. Freeman-Marsh. A large drum in good condition, earthenware jars, wooden paddle, and a carved wooden seat, collected among the Lacandones of northern Guatemala by Dr. Miles Rock in 1890, were presented by his daughter, Mrs. Frederick Leslie Ransome. A costume of a Blackfoot Indian girl, including dress, headband, moccasins, belt, and necklace with shell pendant, was presented by Miss Mary Ellen Carter. A ceremonial beaded belt originally presented by the Olgonkian Indians of Indiana to George Rogers Clark was loaned by Miss Mary B. Clark. A dried scalp and a weasel-skin amulet, together with descriptive data bearing on the history of the two objects, were presented by John G. Carter.

In the section of ceramics 11 accessions totaling 92 specimens were received, the most outstanding of which are: Five pieces of Stiegel glass, consisting of two blue glass pitchers, two clear glass pitchers, and one blue glass salt (1765-74), from William Edwin Emory and Mrs. Elizabeth Major Emory; a collection of blown and pressed

glass consisting of one Stiegel flip glass (1765-74), two Bohemian wine glasses (1760), and two Sandwich cup plates (1835), donated by Mrs. Edward V. Clarke; and Sandwich glass (period of 1850), including a glass bottle made at Amelung factory, Fredericktown, Md., about 1800, a teapot made at Bennington, Vt., a Staffordshire fruit bowl, an American clear glass bottle, and a stoneware jar, from Miss Margaret A. R. Stottlemeyer.

The section of musical instruments contains historically important objects to illustrate the development of European and American musical instruments from the sixteenth century. This section received three accessions totaling 57 specimens in contrast to 215 specimens for the previous year. The most important was a rocking melodeon manufactured by A. Prescott, Concord, N. H., about 1850, presented by Mrs. Frank H. Robinson.

The section of period art and textiles forms a nucleus of what is hoped will some day be a well-rounded exhibit of period art. At present it includes one of the best collections in the United States of hand-woven European brocades, tapestries, laces, and other European art textiles from the fifteenth to the nineteenth centuries. Fourteen accessions amounting to 43 specimens were received this year, in contrast to 24 specimens for the previous year. The most noteworthy of the recent gifts are: Two pieces of antique Spanish crested lace, a gift of Mrs. Kate S. Freeman-Marsh; an early nineteenth century Italian silver filigree flower holder carried by Mrs. Robert Morris at her wedding, presented by Mrs. Margaret M. Gale; Miss Mary Maxwell's gift of a Swiss watch that won first prize at the Paris Exposition in 1900, a sapphire bracelet from Ceylon, and a gold ring with jade inset presented to her by Li Hung Chang.

Physical anthropology.—Nineteen accessions with a total of 601 specimens were received in the division of physical anthropology, as compared to 506 specimens for 1935-36. Alaska still continues to furnish much of the skeletal material, five different accessions coming from this area, totaling 284 specimens. Of these, the largest single accession is that collected by the curator, Dr. Aleš Hrdlička (226 specimens). This is important because it includes a large number of desiccated bodies from the Aleutian Islands. Another large accession (250 specimens) came from Florida. This material was obtained on the Canaveral Peninsula by Dr. George Woodbury, who supervised one of the Smithsonian-C. W. A. projects. Coming from the east coast, this accession represents an important addition to our study collections. A third important item in this year's accessions is material from Maryland and the District of Columbia (58 specimens), which came from three ossuaries, one located near Cambridge, Md., and two at Bolling Field, Anacostia, D. C.

INSTALLATION AND PRESERVATION OF COLLECTIONS

The entire department contributed to the building of a special exhibit of decorative wrought ironwork from prehistoric times to the present. It was open to the public from January 4 to February 6, 1937, and its success was due in large part to the specimens lent to the Museum by Fred S. Gichner and to his special interest.

Archeology.—The exhibits installed in archeology include the following: A series representing the several prehistoric cultures in Tennessee; a collection of earthenware, stone, and metal artifacts from the Bay Islands, Honduras; Basket Maker textiles, cradles, weapons, ornaments, and foodstuffs, from Utah and Arizona—the first material from this cultural horizon exhibited in the National Museum; 12 earthenware bowls illustrating successive periods from prehistoric times to the fifteenth century A. D., from Pecos Pueblo, N. Mex.; a series of pottery and bronze artifacts from an Etruscan tomb near Narce, Italy. In addition, the Costa Rica and Guatemala exhibits and those from two States were revised.

Cataloging the specimens from Alaska obtained during expeditions in 1935 was completed early in the fiscal year. Pottery exhumed by the Smithsonian Institution-Peabody Museum expedition to Honduras in 1936 was cleaned, restored, and otherwise prepared for cataloging. During the latter part of the year a large number of broken earthenware vessels, collected in Arizona for the Bureau of American Ethnology in 1896, were washed, sorted, and mended in anticipation of future restoration. In these laboratory activities the regular staff was greatly aided by three students: Miss Virginia Sutton, Robert Ladd, and Richard Woodbury.

Ethnology.—Thorough rearrangement of many of the ethnological exhibits was completed, and thousands of new labels were installed. The most important changes were made in the halls and galleries exhibiting period art and textiles, heating and lighting specimens, and the important collection of musical instruments. The collection of coins, precious stones, and musical instruments illustrating Biblical history was rearranged. The Gen. Charles Austin Coolidge collection of cloisonné, brasses, and porcelains was changed and labeled. The Mrs. Alexius McGlannan exhibit of Chinese and Japanese minor art and ethnology was improved. Table-case exhibits illustrating the history of the lamp, the torch and candle, and fire-making devices were removed from the Natural History Building and installed in the newly arranged hall of heating and lighting in the Arts and Industries Building. Much of the material on display in the ceramic gallery of the Arts and Industries Building, formerly arranged as collected by individuals, was reclassified to represent in a more detailed way the country of origin and the type of ware.

The newly conceived exhibit of heating and lighting apparatus is housed in the gallery hall of the Arts and Industries Building formerly occupied by the collection of musical instruments. It embraces two major collections, one assembled by the late Dr. Walter Hough over a period of 50 years, the other collected by Virgil M. Hillyer, the late head master of Calvert School, in Baltimore. This exhibit is intended to illustrate the historical development of fire-making devices and heating and lighting apparatus from prehistoric times to the beginning of the modern machine age.

The keyboard instruments on the second-floor rotunda were rearranged insofar as space and architectural details permitted. A Kensington case housing hurdy-gurdies and other elementary keyboard instruments was added to this exhibit.

The Mrs. Henry Kirke Porter collection of laces, embroideries, and tapestries was removed for cleaning and renovation and reinstalled with the aid of Miss Frances Morris and Mme. Helene Fouche, of New York City. New labels were prepared and put in place. The Margaret M. Gale collection was relabeled and was enhanced by the addition of the silver filigree flower holder carried by Mrs. Robert H. Morris at her wedding in 1853.

A temporary exhibit occupying four alcoves of the foyer, illustrating early Japanese brocaded, printed, and painted designs, was arranged through the cooperation of Mrs. Charles D. Walcott, who collected these rare textiles during her recent visit to Japan.

Two W. P. A. workers devoted their entire time to the cleaning and recataloging, when necessary, of study collections, which are now in a greatly improved condition. The tribal and geographical indexes of specimens assigned to the division were completed last year, but much time was devoted during the current year by the division's clerk-stenographer and a W. P. A. worker to the checking of unclassified and hitherto uncataloged and unidentified material and to the checking of distribution invoices.

Physical anthropology.—After the receipt of his Alaskan collection the curator arranged eight cases of special exhibits. Later these were reduced to five cases, including two large uprights, which are still on exhibition in the foyer of the Museum. In addition, several of the cases containing division exhibits on the third floor were rearranged.

At the close of the year the foot bones of the Huntington collection were being numbered. There remain to be accessioned one more C. W. A. collection from Florida and a large quantity of fragmentary skeletal material obtained by Mrs. A. L. L. Ferguson and Judge William J. Graham from ossuaries along the Potomac River. These require a great deal of preparatory work. John T. McBurney, a

medical student from Johns Hopkins Medical School, worked for 2 weeks piecing together the skulls from Mrs. Ferguson's collection.

Anthropological laboratory.—The work in the laboratory was concentrated primarily on the making of casts, restoration of earthenware vessels, and reinstalling lay figures and groups for all the divisions in the department, as well as for other departments of the Museum. Twelve painted casts were completed from decorated clay figurines; casts were made of human effigy earthenware pots, a stone ax, and a turtle-shaped paint vessel. Numerous repairs were made on various specimens in the collections. The lay figures of the Zuñi and Apache Indian groups required attention after return from the San Diego Exposition before they were reinstalled; the lay figures of Two Guns White Calf and a Siouan squaw had to be repaired upon their return from the Cleveland exposition. Numerous specimens were restored, among them the replica of an exceptional stucco-covered vase from Guatemala, a large Brazilian pottery vessel from the island of Marajó, and two Indian reed flutes and meal grinders from Panama.

INVESTIGATION AND RESEARCH

The curator of anthropology, Frank M. Setzler, completed the first draft of a report on the excavation of the Peachtree mound and village site, a joint publication with Jesse D. Jennings, who directed the actual excavations of this Smithsonian-C. W. A. archeological project in North Carolina. The curator's report on the Marksville, La., explorations is nearing completion. Considerable time and research were required for building the temporary exhibit of decorative ironwork; several weeks were devoted to studying wrought-iron exhibits and collections in museums in New York City, Boston, Cambridge, Worcester, and Baltimore. At the same time special studies were made with regard to general museum procedures concerning preservation and modern exhibition. A few days were spent at the Rochester, N. Y., Museum of Arts and Sciences studying archeological specimens. At the request of the Department of the Interior, Mr. Setzler again accompanied Hillory A. Tolson, assistant director of the National Park Service, to Jamestown Island, Va., to consult with Dr. J. C. Harrington, archeologist in charge, on methods of cataloging, preservation, and exhibition of specimens and on future excavation procedures. He also served in an advisory capacity on other anthropological matters in the Park Service.

Archeology.—The curator of archeology, Neil M. Judd, continued research on his report of the material culture of Pueblo Bonito, an archeological site in New Mexico. The assistant curator, Dr. Waldo R. Wedel, was engaged for 8 months on a study of the artifacts

gathered in 1933-34 by the Smithsonian-C. W. A. archeological project at the old Yokuts village site of Tulamniu near Taft, Calif.

During the year 45 lots of archeological material were received for examination and report and were subsequently returned to the owners.

As representative of the Smithsonian Institution on the board of trustees of the Laboratory of Anthropology, Santa Fe, N. Mex., Mr. Judd attended the annual meeting of the board in New York on November 21, 1936, and thereafter devoted 4 days to the study of archeological collections in the American Museum of Natural History. Assistant Curator Wedel examined collections of plains Indian artifacts in various Iowa museums and visited certain archeological sites in neighboring States.

Ethnology.—The curator of ethnology, Herbert W. Krieger, worked on the archeological collections excavated by him in the vicinity of Bonneville, Oreg., in 1934 and on similar material collected in eastern Washington in 1926 and 1927. He prepared several short papers on technological subjects concerning culture diffusion in the West Indies and in northern South America. The preparation of reports on ethnological material, on ceramics, glass, silverware, and jewelry, and on many related topics also received the attention of the members of the staff.

The assistant curator, Henry B. Collins, Jr., completed a final report on field work conducted by him at Gambell, St. Lawrence Island, Alaska, in 1930. He also prepared a paper on "Culture Migrations and Contacts in the Bering Sea Region", which was read at the annual meeting of the American Anthropological Association in December and subsequently published. Research along similar lines resulted in several shorter papers.

The following collections in the division were studied by outside investigators: Sia and Acoma Pueblo fetishes and religious objects, Eskimo archeology, Australian ethnology, boomerangs and elementary flight devices, snowshoes, keyboard musical instruments, traps of various Indian tribes, and European period lace.

Assistance was given the Index of American Design in its study of medals, early American textiles, American ceramics and glass, Indian design, American heating and lighting devices, and musical instruments; the Bureau of Public Roads in gathering data for use in dioramas of early travel and transportation; the Bureau of Customs in examining Japanese and Chinese material for appraisal; the Office of Indian Affairs in its study of the weaving of the northern Woodlands tribes and in photographing Plains Indian designs; the National Park Service in the study of Mexican design and identification of slipware pottery and glass; the Social Security Board in

obtaining data for dioramas showing care of the aged by primitive peoples; the Post Office Department in the appraisal of antiques damaged in the mails; and the Department of Justice in the identification of stolen antiques.

Forty lots of material were received for examination and identification.

Physical anthropology.—Studies on the skeletal material in the division were carried forward by the curator of physical anthropology, Dr. Aleš Hrdlička, and the assistant curator, Dr. T. Dale Stewart. Dr. Hrdlička devoted his attention during this year especially to studies on the femur, while Dr. Stewart worked upon Eskimo remains from Labrador and Indian remains from the Potomac River region. In the interest of his studies on the Labrador Eskimo, Dr. Stewart visited the Field Museum of Natural History in Chicago and the Peabody Museum at Cambridge, Mass.

Research by outsiders on the collections consisted principally of a prolonged study of the brain and a study of the bones of the foot in different races. Assistance in identification of bones was given the Department of Justice and to private individuals. Seven lots of material were received for identification.

Anthropological laboratory.—Seven plaster busts were modeled and cast by the chief preparator, William H. Egberts. These busts were developed from facial masks now on exhibit at San Diego, Calif., and constitute a study sponsored by the division of physical anthropology to show the individual and racial variations of selected American Whites, American Indians, and American Negroes. Six painted casts were made from a restored human skull excavated several years ago near Melbourne, Fla. Six painted casts were made from a skull exhumed along the Potomac River, having a brain capacity of 2,200 cubic centimeters. In all, 171 separate pieces of aboriginal earthenware vessels and 4 vessels from the Old World were restored.

DISTRIBUTION AND EXCHANGE OF SPECIMENS

Archeology.—Five lots of archeological material (178 specimens) were sent out in exchange. Eight lots (180 specimens) were forwarded as gifts to educational institutions, as follows: 3 replicas of Central and South American antiquities to the Peabody Museum of Harvard University; 1 cast of a stone adz each to the Milwaukee Public Museum and the Sheboygan County (Wis.) Museum; 9 stone artifacts to the El Paso (Tex.) Children's Museum; an "altar" from a mound near Anderson, Ohio, to Phillips Academy, Andover, Mass.; 79 chipped artifacts to the Hahnville (La.) High School Museum; and 86 stone artifacts and replicas to the Recreation Commission

of San Francisco. Three lots (524 specimens) on loan from the Archaeological Society of Washington and from Maj. H. S. Bryan, Newark, Ohio, were withdrawn by the lenders. Forty-one specimens were transferred to other divisions, and 12 specimens condemned.

Ethnology.—Four specimens were transferred to the divisions of history and engineering; 23 were received by transfer from the division of archeology; and 189 were withdrawn (139 from ethnology proper, 37 from ceramics, and 13 from period art and textiles). One specimen, an old relief map of Tusayan, was condemned and destroyed, and one specimen exchanged. Forty-one specimens were lent to the United States Commission for display at the International Exposition in Paris, France.

NUMBER OF SPECIMENS UNDER DEPARTMENT

During the year the department received 145 accessions covering a total of 1,790 specimens, which were assigned as follows: Archeology, 38 accessions (307 specimens); ethnology, 60 accessions (667 specimens); physical anthropology, 19 accessions (601 specimens); ceramics, 11 accessions (92 specimens); musical instruments, 3 accessions (57 specimens); and period art and textiles, 14 accessions (43 specimens).

On June 30, 1937, the total number of specimens in the department was as follows:

Archeology.....	446,740
Ethnology.....	192,924
Physical anthropology.....	35,507
Ceramics.....	6,385
Musical instruments.....	2,349
Period art and textiles.....	1,618
Total.....	685,523

DEPARTMENT OF BIOLOGY

(LEONHARD STEJNEGER, *Head Curator*)

Two phases of the work of the department of biology received an impetus during the past year calling for particular attention—the assistance rendered by Works Progress Administration workers assigned to various divisions, which made it possible to clear up considerable arrearages in cataloging, labeling, and other curatorial routine matters, and the increased facilities for field work, which have enabled members of the staff to extend their researches into hitherto insufficiently explored regions. The collecting expeditions of W. M. Perrygo for vertebrate material from the Appalachian region, begun last year, were continued. Dr. Alexander Wetmore's expedition to Guatemala for the study of the bird fauna and the collecting of specimens, particularly of some important and rare species, was very successful. Gerrit S. Miller, Jr., accompanied by Charles L. Wheeler, studied the tropical biota of the Panama region. Dr. E. A. Chapin visited Jamaica to collect and study its entomological fauna. Dr. Paul Bartsch, on the Smithsonian-Roebling expedition, extended his researches in Cuban waters with splendid results. And Dr. Waldo L. Schmitt, on the Smithsonian-Hartford expedition, was similarly successful, the expedition visiting 15 of the West Indian islands and making extensive collections, particularly of marine invertebrates.

As the collections generally have had a steady growth both quantitatively and qualitatively, the year must be regarded as eminently satisfactory.

Through death the Museum lost during the year two outstanding members of the scientific staff.

Dr. Frederick Vernon Coville, honorary curator of the National Herbarium since 1893, principal botanist of the United States Department of Agriculture, and acting director of the National Arboretum, died on January 9, 1937. His loss to the Museum and to botanical science has been eloquently set forth in *Science* (Mar. 19, 1937) by Dr. W. R. Maxon, who said: "His influence over a long period of years was uncommonly helpful and inspiring to younger men within the department, and it was effective also in a far wider scientific and educational field, where it will be sorely missed."

Dr. William Harding Longley, for many years an honorary collaborator of the division of marine invertebrates, died on March 10, 1937. Through his directorship of the Tortugas laboratory of the Carnegie Institution the fauna of the Dry Tortugas is well repre-

sented in the collections of the National Museum, and to the division of marine invertebrates, in particular, he proved himself a most helpful and inspiring counselor.

ACCESSIONS

Accessions for the year amounted to 1,307, with a total of 292,250 specimens, indicating a healthy, normal growth of the collections. The scientific value of the material is considerably higher than usual, owing to a great extent to the fact that it was gathered in selected localities by the specialists directly interested. The deposit of type material by outside workers is also a marked feature, and deserves particular commendation.

Mammals.—The large increase that came to this division was due in large part to the collection of 450 specimens in Panama by Gerrit S. Miller, Jr., and Charles L. Wheeler. In this connection there should be mentioned 50 mammals presented by the Gorgas Memorial Laboratory through Dr. Herbert C. Clark. W. M. Perrygo, assisted by Carleton C. Lingebach, collected 348 small mammals in West Virginia. H. G. Deignan forwarded 59 mammals from Siam. Much important material was obtained in exchange from the Museo Nacional in Madrid and the Field Museum of Natural History. Ninety-two mammals from Japan, Formosa, and the Philippine Islands that fill gaps in the collection were acquired by purchase. Among the many individual donations of important material may be mentioned four whale embryos from Alaska from the American Pacific Whaling Co., Seattle. The Zoological Society of San Diego, Calif., presented the skeleton of an elephant seal. A full-grown African elephant, Jumbo II, was received from the Cole Brothers-Clyde Beatty Circus, and will be mounted for exhibition. The gift by Miss Lucie Leigh Bowie of an antler of the eastern elk from Maryland deserves special mention. The transfer of 855 specimens by the United States Biological Survey is particularly noteworthy, as these comprised the large private collection of mammals of Dr. Ira N. Gabrielson, chief of the Survey, which was turned over to the Survey as a gift from him.

Birds.—The more important and valuable accessions include 932 skins and 219 skeletons of Siamese birds from H. G. Deignan. Dr. A. Wetmore collected 320 skins and 42 skeletons in Guatemala, and W. M. Perrygo and C. C. Lingebach obtained 997 skins and 5 skeletons and alcoholics in West Virginia. Dr. Armando Dugand G., Barranquilla, Colombia, donated 151 skins of Colombian birds. A skin of *Botha difficilis* from Southwest Africa was presented by Dr. Herbert Friedmann. A lot of 26 skins of forms new to the Museum was obtained in exchange with the Zoologisches Museum in Berlin.

Seven skeletons of the jabiru (*Jabiru mycteria*) were acquired by purchase, while the first skeleton of the yellow rail (*Coturnicops noveboracensis*) to come to the Museum was donated by Dr. L. H. Walkinshaw, of Battle Creek, Mich. Another interesting specimen, the trunk skeleton of *Atlantisia rogersi*, was obtained in exchange from the Academy of Natural Sciences of Philadelphia.

Reptiles and amphibians.—The most important accessions were collections from Siam made by H. G. Deignan, supplementing those in the Museum from Dr. Hugh M. Smith. A fine lot of adult and tadpoles of the discoglossoid toad *Ascapbus truei* was donated by Dr. L. P. Schultz. The Museu Paulista in São Paulo presented some interesting amphibian material from Brazil, and Dr. E. A. Chapin's collecting in Jamaica and that of Gerrit S. Miller in Panama brought welcome additions to the herpetological collections. A small but interesting collection of tortoises from Honduras was acquired by purchase. The number of holotypes of new forms deposited by their describers is quite noteworthy: Type and paratypes of *Desmognathus wrighti* by Willis King, National Park Service, Tennessee; type and larva of *Gyrinophilus porphyriticus dunnii* by Henry G. M. Jopson, Bridgewater College, Virginia; type and allotype of *Plethopsis wrighti* by Prof. S. C. Bishop, University of Rochester; and types and paratypes of *Eleutherodactylus andrewsi* and *E. alticola* by Dr. W. Gardner Lynn, Johns Hopkins University. In addition, a number of paratypes and topotypes of various South American tailless amphibians were obtained in exchange. Among the animals received from the National Zoological Park may be mentioned a large specimen of the "Komodo dragon" and a full-grown elephant tortoise from the island of Aldabra.

Fishes.—Among the most important accessions were 90 large fishes including 5 holotypes from Lower California donated by Dr. L. A. Walford. Dr. George S. Myers presented the type of *Hyphessobrycon innesi* from the Peruvian Amazon, and two paratypes of *Melanonus unipennis* were a gift from the New York Zoological Society through Dr. William Beebe. The Smithsonian-Roebling expedition of 1937 under Dr. Paul Bartsch yielded 1,736 specimens of fishes. H. G. Deignan collected 832 specimens of fishes in Siam. Dr. L. P. Schultz donated 1,321 fishes from various localities. The University of Washington deposited 6,897 specimens including 6 holotypes. From the Zoological Institute, Leningrad, were received 13 species of Asiatic fishes, and 6 more came from the Union of Socialist Soviet Republics, Pacific Science Institute of Fisheries. C. R. Aschemeier added 1,178 Maryland fishes and E. D. Reid 1,938 from Maryland and Virginia to the collections.

Insects.—The Bureau of Entomology and Plant Quarantine, following their usual practice, transferred to the Museum the insects

received through the efforts of their collectors and collaborators, amounting to about 60,000 specimens. The material collected in the West Indies by Drs. E. A. Chapin and R. E. Blackwelder, amounting to approximately 60,000 specimens, contains many species new to the collections, many of which are known to be undescribed. Among the gifts received, the collection of Lepidoptera by J. F. G. Clarke aggregating about 10,000 specimens, ranks first. This collection contains considerable type material and is largely from the Pacific Northwest, a region not well represented previously in the collections. Four small collections of Chilean insects, amounting to 545 specimens and comprising material of more than usual interest, were received from Dr. Edwyn P. Reed. Three shipments of about 17,500 specimens were received from Dr. D. C. Graham, Chengtu, China, and 680 moths from Brazil were acquired by purchase. Special mention also should be made of the receipt from B. Preston Clark of 100 species of Neotropical Sphingidae.

Marine invertebrates.—The leading accessions for the year include specimens new to the collections, or type material, as follows: The Hancock scientific expeditions, through Capt. G. Allan Hancock, Los Angeles, marine invertebrates taken on the trip of the *Velero III* to the Gulf of California in the spring of 1936; Capt. R. A. Bartlett, New York City, a collection from northeast Greenland made in the summer of 1936; the Smithsonian-Roebbing exploring expedition, a collection taken in the Greater Antilles; Museum of Comparative Zoology, 25 amphipods from Lake Titicaca, Peru, identified by Walter Faxon, who described the species; Dr. Walter K. Fisher, Hopkins Marine Station, 24 specimens of hydrocorals, including types of 2 new species, and 26 specimens of barnacles; Dr. Norma C. Furtos, Cleveland Heights, Ohio, 12 specimens of ostracods comprising holotype and paratypes of a new species; Olga Hartman, Berkeley, Calif., a collection of marine invertebrates, including types of 12 new species and 8 paratypes of a new species of marine annelid, and also the holotype of a new species of copepod; M. L. Natland, Long Beach, Calif., 29 slides of Foraminifera, including 25 types of new species and the type of a new variety; Prof. Frank Smith, Hillsdale, Mich., the collection of earthworms on which his paper on the earthworms of Oregon is based; Steve A. Glassell, Beverly Hills, Calif., types and paratypes of 13 new species of crabs; Dr. S. F. Light, Berkeley, Calif., a collection of copepods, including cotypes of 6 new species; Dr. Libbie H. Hyman, New York City, 10 slides of flatworms, including types of 2 new species; Dr. A. W. Bell, Los Angeles, paratypes of 3 new species of fresh-water oligochaetes; Dr. Minna E. Jewell, Harvey, Ill., 5 fresh-water sponges taken in Lake Maimie, Tomahawk River, and boggy streams in Vilas County, Wis.;

and Prof. Roman Kenk, Ljubljana, Yugoslavia, 33 specimens of fresh-water triclads from Virginia received through the kind intermediation of Dr. Libbie H. Hyman.

Mollusks.—The principal accessions may be listed as follows: Dr. K. Derjugin, Leningrad, Union of Socialist Soviet Republics, 146 marine mollusks from eastern Siberia, including many types of new species; Dr. Carlos de la Torre, Habana, Cuba, 58 specimens, including 15 types, of land shells from Cuba; Dr. C. G. Aguayo, Habana, Cuba, 3 holotypes of Cuban gastropods; George Homer, Mont Vernon, N. H., 39 land shells, including 2 types of new forms from Pan de Azucar, Cuba; Dr. Stanley Truman Brooks, Pittsburgh, 14 specimens, paratypes, of *Stagnicola* from Newfoundland; Wray Harris, Tutuila, Samoa, about 500 specimens of shells from Oahu, Hawaiian Islands; Dr. D. Thaanum, Honolulu, 306 specimens from Hawaii; Dr. J. E. Alicata, Honolulu, 363 specimens from Hawaii; Dr. Eugen Paravicini, Basel, Switzerland, 222 specimens from Java and Sumatra; and Dr. Felix Roch, Rovigno d'Istria, Italy, 93 specimens of shipworms. About 11,000 specimens were obtained by purchase through the Frances Lea Chamberlain Fund, and approximately 10,000 specimens from Siberia from the Walter Rathbone Bacon Traveling Scholarship of the Smithsonian Institution.

Helminths.—The total number of accessions for the year is 17, representing 969 specimens. The more important of these are as follows: Prof. J. E. Ackert, Manhattan, Kans., two type specimens of nematodes and one type specimen of trematode; Dr. Elon E. Byrd, Athens, Ga., five type specimens of trematodes; Dr. W. P. N. Canavan, Oklahoma City, four types and paratypes of helminths; Ralph F. Honess, Laramie, Wyo., type specimen of a new genus, new species of cestode; Prof. Charles A. Kofoid, Berkeley, Calif., two type specimens of trematodes; Dr. W. G. MacCallum, Baltimore, Md., biographical sketch, portrait, and three volumes of notes and drawings of parasites by Dr. George A. MacCullum; and Dr. C. Courson Zeliff, State College, Pa., two cotypes of trematodes.

Corals.—One lot of corals, consisting of about 25 specimens, was accessioned this year. These were obtained by the Smithsonian-Roebbling exploring expedition.

Echinoderms.—The number of accessions received during the year was 12, the most interesting being: A number of specimens from the seas about Greenland, collected by Capt. Robert A. Bartlett; some sea-urchins from Acapulco, Mexico, presented by Philip Powers, of the University of Pennsylvania; some specimens from Port Aransas, Tex., presented by Dr. Hal B. Parks; and some sand-dollars from Japan given by Dr. Hayato Ikeda.

Plants.—The number of accessions for the year is 372, consisting of 45,438 specimens, the more important ones being as follows: 10,477

specimens from the United States Bureau of Plant Industry, including 6,616 mounted grasses from many sources, accumulated during the past 3 years; 5,853 specimens of flowering plants and ferns, presented by H. A. Allard, Bureau of Plant Industry, mostly from Virginia and gathered in connection with an intensive study of the vegetation of the Bull Run Mountains; 479 flowering plants and ferns from Costa Rica collected by Dr. A. F. Skutch in connection with botanical exploration in that country and including many new or otherwise interesting species; 595 plants from Coahuila, Mexico, presented by Dr. F. L. Wynd, University of Missouri; 303 specimens from Peru presented by G. Klug, Iquitos, Peru, being the tenth installment of the series now totaling 4,400 numbers and containing a large proportion of new and rare species from the mountains of eastern Peru; 257 specimens from South America, received from the Naturhistorisches Museum, Vienna, in continuation of exchanges, consisting largely of historic specimens belonging to the collections of Poeppig, Pohl, and Schott; 450 specimens from Mexico presented by Prof. E. Lyonnet, Mixcoac, Federal District, Mexico; 692 specimens from Texas, presented by Prof. Omer E. Sperry, Alpine, Tex.; 349 specimens from Nevada, presented by Percy Train, Lower Rochester, Nev.; 372 specimens from Venezuela, presented by Prof. H. Pittier, Caracas, Venezuela; 457 specimens from Guadeloupe and Martinique, presented by Prof. H. Stehlé, Pointe-à-Pitre, Guadeloupe; 662 specimens from Mexico, presented by E. Matuda, Escuintla, Mexico; and 361 specimens from Sumatra, presented by Boris A. Krukoff. G. S. Miller, Jr., collected 400 specimens in Panama during his expedition to that region in 1937. Five hundred specimens from Algeria and Morocco were acquired by purchase, as were 387 plants collected in South America by Mrs. Ynes Mexía.

A large number of important exchanges were made with various museums and institutions, the most noteworthy being: 1,601 miscellaneous specimens received from the Gray Herbarium of Harvard University; 430 specimens mainly from Mexico and Australia, received from the Royal Botanic Gardens, Kew, England; 1,974 specimens from various regions received from the New York Botanical Garden, New York City; 583 specimens from Greenland, Denmark, and tropical America, from the Universitetets Botaniske Museum, Copenhagen; 1,149 miscellaneous specimens from the Botanisches Museum, Berlin-Dahlem, Germany; 570 specimens from Brazil, from the Instituto Agronomico do Estado de São Paulo, Campinas, Brazil; 577 specimens from Utah, received from the Carnegie Museum, Pittsburgh; 364 specimens from Honduras from DePauw University, Greencastle, Ind.; 771 specimens from Canada, received from the National Museum of Canada, Ottawa; 330 speci-

mens, mostly from California, received from the California Academy of Sciences, San Francisco; 249 specimens, chiefly ferns from Java, received from the Jagellonian University, Krakow, Poland; 1,428 miscellaneous specimens received from the Missouri Botanical Garden, St. Louis; more than 400 specimens from Mexico and Central America, from the University of Michigan, Ann Arbor; 400 specimens from Africa, received from the Jardin Botanique de l'État, Brussels, Belgium; and 150 specimens from Formosa, received from Taihoku Imperial University, Formosa.

INSTALLATION AND PRESERVATION OF COLLECTIONS

One of the improvements in the exhibition series was the reinstallation of the birds in the two rooms devoted to the District of Columbia faunal collection. The usual and formal installation of individual specimens on polished walnut stands was abandoned, and the birds were remounted on natural branches fastened to the back of the case, which was covered with monk's cloth. The exhibit was appropriately relabeled, and a start was made at artificial internal lighting of the individual cases. The change is a great improvement on the old monotonous serial display. Numbers of attractive casts of local amphibians have also been added to the District faunal exhibit.

The exhibits in the north range of the second floor now include a wall case containing a human nervous system dissected and mounted at the Kirksville College of Osteopathy and Surgery and donated by Prof. G. C. Stukeby. Among the additions to the mounted mammal exhibits may be mentioned a fine old male giant panda and a handsome specimen of the smaller true panda, both from the extreme western part of China adjacent to Tibet, collected by Dr. D. C. Graham. Several large fishes have been added to the exhibition series: A mounted specimen of a large blue marlin weighing 478 pounds, presented by Michael Lerner, of New York; a white marlin donated by Clay Jewell, of Baltimore; a large threadfish donated by Mrs. Hubert K. Reese, of Memphis; and an 1,800-pound ocean sunfish. Work on changing the mounting of the anthropoid skeletons of the exhibition series progressed satisfactorily, and the remounted gorilla skeleton has already been reinstalled.

In the division of mammals rearrangement of skins was confined to a continuation of the rodent collection, of which the entire group of Asiatic squirrels were rearranged, labeled, and given additional space. The entire group of rats (*Rattus*) consisting of 34 cases was rearranged with the necessary labeling and expansion. The spreading and rearranging of the hystricine rodents were completed as far as space and case room permit. The pangolins, armadillos,

sloths, and anteaters were all given some additional space, but this entire group is still much crowded. Further progress was made on the intercalating of the Merriam collection of skins, hitherto kept as a separate collection, and in consequence certain groups had to be rearranged. It was necessary to spread and rearrange sections of the insectivores, North American sciurine rodents, microtine rodents, and lagomorphs as far as case space would permit. Carlyle Tucker, of Washington, D. C., assisted as a student in the rearrangement of some of the larger carnivores and in listing certain groups of mammal skins for an index now in preparation. Charles L. Wheeler, of Hatchville, Mass., who spent 2½ months as a student in the division, aided in the rearrangement of most of the groups mentioned above and listed the scientific names from the labels of several large groups of mammals for indexing.

The alcoholic collection of mammals has grown considerably and received commensurate attention.

The taxidermists made up 85 mammal skins as study specimens and skinned 41 fresh specimens. The ears of 51 mammal skins returned from the tanners were softened, turned back, and card-boarded, a process that keeps the ears in good condition. A number of skeletons were roughed out, and 38 large and medium-sized skeletons and 250 skulls were cleaned. By outside contract 491 small skulls and 25 skeletons were cleaned. The preservation for mounting of the full-grown African elephant donated by the Cole Brothers was one of the outstanding efforts of the taxidermists. W. L. Brown, chief taxidermist, accompanied by two assistants, went to Rochester, Ind., where the elephant had died, and with great skill and much hard work skinned the huge carcass, preserved the hide, roughed out the skull and big bones, and sent the specimen in excellent shape to the Museum, where it will be mounted.

In the division of birds the identification and modernized labeling of the study series were continued, and many specimens were so treated. Dr. E. M. Hasbrouck went through the entire series of the Fringillidae, checked all labels where the data seemed incomplete, and put Museum labels on all specimens not already so provided. The work of expanding and rearranging the collections undertaken by the associate curator involved 9 quarter-unit cases of sparrows and 22 half-unit cases of pigeons, hawks, and parrots. The catalog of scientific names applied to birds was increased by about 800 cards. Of the birds received in the flesh during the year, 84 were skinned and made up by the taxidermists, 423 skeletons were cleaned, and 120 skeletons were roughed out. The number of old skins remade or repaired was 37, and the number of eggs blown was 15. The number of skeletons cleaned by outside contract was 112.

About 4,000 reptiles and amphibians were card-cataloged and placed on the shelves in the stacks. The whole alcoholic collection was gone over, the alcohol replenished, and the old cork-stopper bottles replaced when necessary. During the year 75 study skins of turtles were made up, and 175 skulls and 182 shells were cleaned. The nearly complete skeleton of the giant Komodo lizard that died in the National Zoological Park was roughed out and cleaned.

In the division of fishes the regular cataloging, labeling, identifying or renaming, card indexing, bottling, and installing new and old accessions were carried on under the new assistant curator. In the alcoholic stacks all the jars in the type series and part of the Philippine collections were refilled.

Work in the study collections of insects progressed steadily. Additional space is urgently needed for necessary rearrangements and the incorporation of material already at hand. The requests for insect identifications were about the same in number as last year, approximately 44,000 lots being submitted to the taxonomic division of the Bureau of Entomology and Plant Quarantine for identification.

In the section of Coleoptera certain groups of particular importance in connection with the work on the West Indian fauna were rearranged to facilitate the study of the specimens recently secured in that region. The Philippine Carabidae, Dytiscidae, Hydrophilidae, and Anthribidae of the Baker collection were transferred to trays and museum drawers. This has been done for the exotic species of the large genus *Apion* and the European species of the weevil genera *Baris* and *Cleonus*, as well as for the weevil subfamilies Rhynchitinae and Attelabinae. Certain material returned by outside investigators who had borrowed it for use in their revisional studies was incorporated and the affected groups rearranged. A large part of the unmounted beetles of the Wickham collection was sorted to species or to genera and the Museum specimens distributed in the collection unmounted; the Mexican, Central American, and West Indian specimens in the lot were mounted, labeled, and incorporated. A valuable collection of about 50 species of Sumatran beetles, presented by E. Jacobson, was included among the acquisitions. The collection of coleopterous larvae is in good condition, but serious taxonomic work is much needed, and little of this has been possible the past year owing to the heavy burden of identification work. Improvements in the Lepidoptera collections are seriously handicapped by space limitations. About 1,000 specimens of Oecophoridae, Gelechiidae, and Olethreutidae were distributed in the collections. In the Microlepidoptera, the families Stenomidae, Oecophoridae, Gelechiidae, and Aegeriidae were rearranged. Various groups belonging to the families Noctuidae and Geometridae, from the collection of the

Brooklyn Museum and from the Barnes collection, were incorporated in the Museum series. More than 1,500 slides of genitalia were prepared and placed in the slide collection. Twelve drawers of miscellaneous muscoid Diptera were sorted to genera and incorporated, as well as about 3,500 muscoid flies identified by Walton, Coquillett, and Aldrich. Forty-six additional drawers of Nematocera were labeled and arranged, making a total of 154 completed out of approximately 300. The Conopidae and parts of the Sarcophagidae and Syrphidae were arranged. While the pinned Diptera collections are in generally good condition, a great deal of labeling and arranging needs to be done, and certain groups, particularly in the Muscoidea, must be thoroughly studied and reworked before any arrangement can be undertaken. Much work is also needed on the slide collection, especially in the marking and recording of types.

In most of the families of Hymenoptera the collections are in satisfactory shape for reference purposes, compared with the unworked condition of numerous subdivisions in the parasitoid groups. Considerable minor rearrangement was done incidental to the identification work, and the material in various genera was more or less completely reorganized, especially in *Exetastes*, *Ophion*, *Enicospilus*, *Eremotylus*, and *Spilochalcis*. A good deal of material that had been loaned for study was reworked and returned identified, including the Museum's specimens of North American *Empria*, Neotropical *Melipona* and *Trigona*, and Nearctic *Xyphidria*, *Timulla*, *Myzine*, and Chrysididae. The Beutenmüller collection of gall-making cynipids, comprising about 6,500 specimens, was transferred to trays and properly incorporated by L. H. Weld, who has also distributed in the Museum collection nearly 4,000 cynipids.

Various restricted groups in the Orthoptera, particularly in the families Acrididae and Blattidae, were rearranged. The material in the small family Grylloblattidae was entirely reassembled, studied, and arranged in accordance with the conclusions presented in a manuscript recently completed. Practically all the Chinese Acrididae were studied and determined by K. S. Francis Chang and await incorporation. In the neuropteroids the Nearctic Myrmeleontidae were completely rearranged. A large part of the unstudied material of minor orders in this group was sorted, at least to orders and much of it to families. The entire reorganization of the valuable Caudell library of separates is now nearly completed.

The condition and arrangement of the ectoparasite collections are good, but there is overcrowding in many places, additional slide storage space being needed. The type specimens in many cases require remounting, and this work is progressing gradually. Most of the museum collections in this assemblage of groups are rich in new

material and need study and reworking on this account. The Wolcott collection of land mites, including several hundred slides, was restudied and interpolated in the regular collection. The Collembola submitted to Dr. H. B. Mills, of the Montana Agricultural Experiment Station, when returned by him after identification, were transferred to standard vials and properly labeled for incorporation in the Museum collections. The ectoparasite collection received from the National Institute of Health was cataloged and placed in storage jars for safekeeping.

The collections in all the major subdivisions of the Hemiptera are in good condition curatorially, although numerous sections are in need of reworking. In the Heteroptera, parts of the families Lygaeidae, Reduviidae, Cimicidae, Veliidae, and Belostomatidae were rearranged. The large collection of Philippine Tingitidae, studied by Dr. C. J. Drake and recently returned, was incorporated, as well as collections of miscellaneous Heteroptera received from J. S. Wade and M. C. Lane, of the Bureau of Entomology and Plant Quarantine. The C. F. Baker collection of Philippine Homoptera has been transferred to trays, necessitating the rearrangement of the entire collection. Incorporation of material collected by P. W. Oman in the Western United States, 1933-36, continued as time permitted. The collection of aphids is in excellent condition, except that expansion is necessary in certain parts and the large Asiatic collection of aphids has not yet been incorporated because of lack of space.

Satisfactory condition of the alcoholic study collections of marine invertebrates has been maintained. With the aid of a Works Progress Administration helper the dry collections were examined, poisoned anew, and protected against dust. Dr. R. S. Bassler, under whose active custodianship the collection of Recent Bryozoa was placed some years ago, has dried many of the old collections and separated the permanent calcareous portions into species, because in most cases it is detrimental to the specimens to preserve them in liquid, since the fleshy anatomical structures become decomposed and the calcareous skeleton obscured. Fresh material must be studied for the soft parts.

In the division of mollusks the installation of steel cases with metal drawers in the so-called duplicate storage marks a great improvement. Great strides were made in preparing and labeling the mass of accumulated collections, making it possible to intercalate them in the study series; this in a large measure was due to the help rendered by the five Works Progress Administration workers assigned to the division. The cataloging of the pamphlets and rearranging of the library were accomplished under Dr. Rehder's direction by Miss Shields and a Works Progress Administration worker. Great progress was made in revising certain groups of the collections in connection with the researches conducted by the scientific staff.

The Museum collections of helminths in the custody of the zoological division of the United States Bureau of Animal Industry are being subjected to a systematic revisional overhauling by Drs. Benjamin Schwartz and E. W. Price and their associates.

A great part of the coral collection was given a cleaning by a temporary assistant during the year. The corals are now installed in dustproof cases. The room of the honorary custodian, Dr. T. Wayland Vaughan, was supplied with new quarter-unit cases, and the specimens in these also were subjected to the same cleaning process.

Through temporary services in the first quarter of the year, the cataloging of identified specimens in the division of echinoderms was continued, the card catalog was brought up to date, and considerable progress was made in revising it. Part of the collection of dried starfishes was rearranged, and considerable work was done on the alcoholic collections.

In the division of plants the number of specimens mounted for the herbarium during the year was 38,528. Of these, 33,218 were mounted by contract (5,325 by glue and adhesive straps, 27,893 by straps alone); the remaining 5,310 were mounted by our preparator in addition to repair and other work. By utilizing Works Progress Administration help, most of these, together with an accumulation from last year, were made ready for incorporation into the herbarium, the total number of mounted specimens stamped and recorded being 51,977, which is more than twice the number of last year. Of this material, the ferns and most of the South American and Old World phanerogams were distributed into the herbarium. Several employees assisted materially in the project on the bibliography of eastern Asiatic botany, and one has made good progress in an analysis of the National Herbarium, listing the main collections and their sources. The segregation of type specimens of American flowering plants was continued by E. P. Killip, 535 being added during the year. The number of types of new species and varieties now cataloged and placed in individual covers is 20,868.

As heretofore, E. C. Leonard gave special attention to the herbaria of mosses and algae. J. A. Stevenson, honorary custodian of the C. G. Lloyd mycological collection, reports that additional space was provided for this collection, which is deposited with the United States Department of Agriculture, so that facilities are now available for the increasing number of visiting mycologists.

INVESTIGATION AND RESEARCH

Such time as the curator of mammals, Gerrit S. Miller, Jr., was able to devote to research, was largely applied to the continuation of a special study of the primates. Much work was done on the

routine identification of specimens newly received and on the determination of bones from Indian deposits. The assistant curator, Dr. Remington Kellogg, identified the mammals collected by Perrygo and Lingebach in West Virginia and submitted for publication an "Annotated List of West Virginia Mammals." He also spent considerable time in the identification of bones collected in Indian deposits and continued his studies on the Miocene mammals of Maryland. In December his "Review of the Archaeoceti", on which he has been engaged for some years under the auspices of the Carnegie Institution, was published. A. J. Poole, scientific aide, continued work on the revised catalog of type specimens of mammals. A. B. Howell, collaborator, located at the Johns Hopkins Medical School, Baltimore, spent 2 days dissecting the muscles of a solenodon.

The curator of birds, Dr. Herbert Friedmann, continued his work on Ridgway's unfinished monograph, "The Birds of North and Middle America", completing the order Gruiformes, and began work on the gallinaceous birds. He also published a paper (in collaboration with Arthur Loveridge, of the Museum of Comparative Zoology) on East African birds and the second volume of United States National Museum Bulletin 153, dealing with the passerine birds collected by the Childs Frick expedition to Ethiopia and Kenya Colony, as well as two short papers on Alaskan birds. He identified several large lots of bird bones from archeological sites in the Aleutians and Kodiak Island. The associate curator, J. H. Riley, completed and submitted for publication a manuscript on the Abbott and Smith collections of birds from Siam. He also studied the birds collected by the late Dr. W. L. Abbott in the islands off the west coast of Sumatra. Dr. Alexander Wetmore continued work on fossil birds and on the birds of West Virginia and Virginia, in the course of which he published a number of papers.

The studies of the turtles and tortoises of North and Middle America were continued by the curator of reptiles, Dr. L. Stejneger. Dr. Doris M. Cochran finished a manuscript on the tree toads, Hylidae, of southeastern Brazil, in collaboration with Dr. Adolpho Lutz, of Rio de Janeiro. Her report on the remaining frog genera of the Brazilian collections made by her during the previous year is nearing completion.

Dr. L. P. Schultz, assistant curator of fishes, who entered upon his duties at the beginning of 1937, had little opportunity for research because of the engrossing nature of the curatorial and administrative tasks connected with taking charge of the division. Nevertheless, he submitted for publication a paper on a new deep-sea fish, *Argyropelecus antrorsospinus*, of the family Sternoptichidae; revised the genera *Argyropelecus* and *Polyipnus*; and described a new species of the latter genus. Two papers, one redescribing the capelin of the

North Pacific and the other on the skate *Raja kincaidii*, were completed. Under joint authorship with Dr. C. L. Hubbs, Dr. Schultz is preparing a revision of the genus *Porichthys* with a description of a new species. E. D. Reid, aide, prepared a paper on the "Description of a New Blennoid Fish of the Genus *Acanthemblemaria* from the Pacific Coast of Panama", as coauthor with Dr. G. S. Myers.

In the division of insects the curator, Dr. E. A. Chapin, continued research on various groups of Scarabaeidae, especially the species of *Serica* related to the Japanese *S. similis*, of which material was borrowed from the British Museum.

Dr. A. G. Böving made considerable progress on the classification of coleopterous larvae of the genus *Phyllophaga*. W. S. Fisher began a revision of the Nearctic buprestid beetles of the large and difficult tribe Chrysobothrini. Studies on minor complexes in the Hispididae, Chrysomelidae, Cerambycidae, and Curculionidae in connection with identifications are in progress by the various specialists on Coleoptera.

J. F. G. Clarke has in progress several revisional papers on various families and genera of Lepidoptera, and August Busck completed a revision of the North American Gelechidae, a family of Microlepidoptera. He also made some progress on a monograph of the American Tortricidae. Carl Heinrich's study of American phycitine Lepidoptera was considerably advanced during the year, in the preparation of which 530 drawings and about 2,000 genitalia slides were made. His revision of the lepidopterous genus *Rupela* was completed and in press at the close of the year. Dr. Alan Stone completed and submitted for publication a monograph of the Nearctic horseflies (Tabanidae), while a revision of the fruitfly genus *Anastopha* is in an advanced stage of preparation, as is also a review of the North American species of the family Calliphoridae by D. G. Hall. The latter has also been doing preliminary work on a synopsis of the botflies of North America, as well as conducting studies of various small groups of muscoid flies. C. T. Greene made definite progress on his family classification of dipterous larvae, including the preparation of some illustrations. A. B. Gahan prepared working manuscript keys for various groups of Chalcidoidea to assist in identification and to serve as a basis for more complete studies later. R. A. Cushman continued his studies of ichneumonoid genera. His revision of the Nearctic species of the genus *Exetastes* was in press at the end of the year. Miss Grace A. Sandhouse completed and published synopses of the North American bees belonging to the genera *Augochlora*, *Augochloropsis*, and *Augochlorella*, while revisions of the Nearctic bees of the genera *Osmia* and *Halictus* are in preparation, besides a study of the wasps of the genus *Trypoxylon*. Studies on certain genera of American roaches were completed and published by A. B.

Gurney, who also completed a synopsis of the family Grylloblattidae, which has been submitted for publication. Intermittent work was done by H. A. Allard and A. B. Gurney on the "Manual of Orthoptera and Dermaptera of Northeastern United States", begun by the late A. N. Caudell in collaboration with Mr. Allard.

The key for the "Generic Classification of the Fleas of the World" by Dr. H. E. Ewing was completed, but the paper itself is not yet ready for publication; work on keys to the chiggers of the New World was well advanced, and a revision of the mites of the subfamily Tarsoneminae was completed and submitted for publication. Studies in various small genera of true bugs belonging to the families Lygaeidae and Reduviidae were undertaken by H. G. Barber, and a short paper on the genus *Triatoma* was completed and published. P. W. Oman continued work on the revision of the North American leafhoppers, and that of the tribe Errhomenellini was nearly completed. A first draft of a revision of the aphids of the cosmopolitan genus *Myzus* was completed by Dr. P. W. Mason, who continued his studies on the Macrosiphina as a whole. Dr. Harold Morrison made much progress in his studies of the scale-insect genus *Matsucoccus*, for a review of which much new material has been assembled.

In the division of marine invertebrates, the curator, Dr. Waldo L. Schmitt, continued work on his review of the hermit crabs of Hawaii, which is being done jointly with Otto Degener, of Honolulu, and on his studies of the macruran and stomatopod collections of the Hancock expeditions. Clarence R. Shoemaker, assistant curator, nearly completed his report on the Amphipoda of the New York Zoological Society's Bermuda expeditions and made preliminary studies toward a revision of North American amphipods. Dr. Mary J. Rathbun, associate in zoology, read the proofs of her bulletin "The Oxystomatous and Allied Crabs of America", the last of her series of monographs on North American crabs; named nearly all the unidentified Brachyura received since her previous monographs on American crabs appeared; and determined most of the material taken in the Philippines by Dr. H. C. Kellers on various United States Navy eclipse expeditions. James O. Maloney, aide, continued his studies of the isopods collected in the Arctic by Capt. Robert A. Bartlett and those taken by the Hancock expeditions. Dr. J. A. Cushman, collaborator in Foraminifera, worked on a series of monographic revisions of various foraminiferal families; while Dr. Charles Branch Wilson, collaborator in Copepoda, completed reports on the parasitic copepods of the Hancock Galapagos expeditions of 1934 and 1935 and on the copepods of the Bartlett Arctic cruises from 1926 to 1935.

Dr. Paul Bartsch, curator of mollusks, prepared a report on marine mollusks submitted by the Union of Socialist Soviet Republics Gov-

ernment, obtained during explorations of the Japan, Okhotsk, Bering, and Arctic Seas. The types of the many new species are in the collection of the National Museum, as well as a representative series of other specimens. This material is very important, since it covers the gap that existed in our collection of the North Pacific marine fauna. The curator has also continued his researches on Cuban land mollusks, in cooperation with Dr. Carlos de la Torre, of the University of Habana, and monographs are being prepared on parts of this rich fauna. Dr. Bartsch and the assistant curator, Dr. H. A. Rehder, are now engaged on a revision and report of Hawaiian gastropod marine mollusks, a continuation of the study completed on Hawaiian bivalve marine mollusks. In addition, Dr. Bartsch continued his breeding experiments with *Goniobasis* in the Potomac drainage. Dr. Rehder continued researches in molluscan nomenclature, so essential for the proper designation of the material in the collection. Dr. J. P. E. Morrison, senior scientific aide, continued his studies on the West Indian and North American Pupillidae and other minute terrestrial gastropods of the United States.

In the division of echinoderms the curator, Austin H. Clark, completed the preparation of the illustrations for part 4 of his "Monograph of Existing Crinoids", and the manuscript was submitted for publication. Considerable progress was made in the preparation of the manuscript of the next part. Work was continued on the echinoderms of the Johnson-Smithsonian deep-sea expedition. Mr. Clark's report on the crinoids of the John Murray expedition to the Indian Ocean, 1933-34, was published. A report on the echinoderms collected by Capt. Robert A. Bartlett in the seas about Greenland also was published, and a report on the echinoderms of Hudson Bay based upon the collections of the Canadian steamer *Loubyrne* was submitted for publication.

E. P. Killip, associate curator of plants, contributed the manuscript of a synopsis of the Valerianaceae and Caprifoliaceae for publication in the "Flora of Peru", by J. F. Macbride, and of the Passifloraceae for the "Flora of Surinam", by A. Pulle. The bibliography of eastern Asiatic botany by Dr. E. D. Merrill, of Harvard University, and E. H. Walker, of the National Herbarium, mentioned a year ago as completed, will be published during the coming year under the auspices of the Arnold Arboretum.

Fifty-five lots of specimens were received for examination and report by the division of mammals, and 45 by the division of birds in addition to 15 lots of bones. Eighteen lots were sent to the division of reptiles and 30 to the division of fishes. The number of lots of insects received apart from those handled through the Bureau of Entomology and Plant Quarantine was 130. The division of marine

invertebrates received 118, representing the identification of over 7,000 specimens. To the division of mollusks came 76 lots, and 5 lots of helminths were similarly handled. Lots of echinoderms totaled 60, and the division of plants received 332 lots, aggregating 21,479 specimens.

DISTRIBUTION AND EXCHANGE OF SPECIMENS

Duplicate zoological specimens distributed to museums, colleges, high schools, and similar institutions aggregated 2,465 specimens; and 18,890 specimens were sent out in exchange, of which 1,913 were zoological. The 16,977 plants distributed went to 97 institutions and correspondents, of which 49 were in the United States and 48 in 24 countries abroad.

NUMBER OF SPECIMENS UNDER DEPARTMENT

The number of specimens given below is based on the numbers estimated for the previous fiscal year with the addition of the specimens accessioned during the present year and the deduction of specimens removed during the same period. The figures of the early estimates were approximate and have been revised from time to time. Several collections, as the corals, of which no estimate has as yet been made, are not included, nor does the number of plants include the lower cryptogams and duplicates. In several of the divisions lots consisting of minute organisms are frequently counted as single specimens though they may contain hundreds or even thousands of individuals the enumeration of which could serve no useful purpose.

Mammals	235, 123
Birds:	
Skins	262, 354
Alcoholics.....	9, 976
Skeletons	15, 487
Eggs.....	89, 848
	<hr/>
	377, 665
Reptiles and amphibians.....	112, 626
Fishes	1, 119, 724
Insects.....	4, 749, 103
Marine invertebrates	960, 042
Mollusks	2, 716, 243
Helminths.....	145, 439
Echinoderms	165, 344
Plants	1, 688, 852
	<hr/>
Total.....	12, 270, 161

DEPARTMENT OF GEOLOGY

(R. S. BASSLER, *Head Curator*)

Progress in the preservation and increase of the geological collections during the past 12 months compares most favorably with that of previous years, although fewer extensive gifts or purchases are noted. The policy of conducting field researches in localities from which material is most needed was continued with excellent results, explorations in such widely separated areas as Alaska, New Mexico, Chile, Michigan, and Czechoslovakia bringing valuable returns. Of especial interest are fossil mammals collected in the Southwestern States; meteorites from Chile; excellent epidotes and other minerals from Prince of Wales Island, Alaska; fossil invertebrates from the Middle Devonian of the upper Mississippi Valley; and Devonian and Cretaceous fossils from various classic European localities. All these accessions are much needed additions to both the exhibition and the study series.

With the continued assistance rendered by Federal relief aid, the preparation and cataloging of the collections progressed most favorably, notably in the case of the large series of Cambrian fossils assembled by Dr. C. D. Walcott and the greatly expanded set of meteorites.

ACCESSIONS

A total of approximately 62,757 specimens registered under 234 accessions is the record for the year. These are listed under the different divisions as follows: Mineralogy and petrology, 99 accessions (1,432 specimens); geology, systematic and applied, 22 accessions (206 specimens); stratigraphic paleontology, 92 accessions (60,493 specimens); vertebrate paleontology, 21 accessions (626 specimens). The number of accessions is only slightly larger than last year, but the value of the material for scientific purposes is considerably increased, because the important additions resulted mainly from the personal efforts of members of the staff in carefully planned field trips.

Mineralogy.—The income from the several funds available for mineralogy brought valuable accessions both by purchase and by field explorations. The Roebling collection received a number of outstanding specimens through purchases. Of especial interest are many crystal groups, including fine azurite on smithsonite from Southwest Africa; the rare silver tin sulphide, canfieldite, from Bolivia; large pale blue octahedral fluorites from Colorado; lustrous bournonite and cronstedtite from Rumania; gem-quality pink and

green spodumenes from Brazil; and unusually fine topazes and bixbyites from Utah. New and rare selenides and selenates from Bolivia; selected specimens of calcite, galena, and sphalerite from Kansas and Oklahoma; and rich masses and crystals of uraninite from North Carolina were also secured. An extensive suite of minerals from the noted locality on Prince of Wales Island, Alaska, resulting from field explorations by Assistant Curator E. P. Henderson, added fine specimens of epidote of various crystal habits, numerous large andradite and almandite garnets, unusually fine uralite, and other associated minerals.

Choice items obtained through the Canfield Fund include a select lot of minerals from the copper mines at Tsumeb, Southwest Africa, particularly notable being a unique group of huge azurite crystals; a slab covered on one side with crystals of the rare copper arsenate olivenite and on the other with azurite and malachite; lustrous twinned crystals of cerussite showing a variety of habits; two large groups of huge crystals of malachite pseudomorphous after azurite; and a large group of rhombohedral smithsonite crystals. These make up a colorful exhibit.

Other noteworthy additions, largely through gifts, to the mineral collections are as follows: From Dr. Harvey P. Barret, Charlotte, N. C., 15 scepter quartz and amethyst crystals, a huge spessartite garnet crystal, a rich specimen of the uranium minerals gummite and uranophane from North Carolina, and five select specimens of chalcidony replacing coral from Florida; from Earl L. Calvert, San Gabriel, Calif., a specimen of the very rare silicoborate, bakerite, from California. A new occurrence of the rare hydrous aluminum oxide, diaspore, is represented by a rich specimen presented by Prof. V. P. Gianella, Reno, Nev. Boodle Lane, of Galena, Kans., supplemented his many previous gifts by a large slab of clean, pink dolomite; a huge crystallized group, showing galena, sphalerite, chalcopyrite, and dolomite; and a fine large crystal of sphalerite with large tetrahedrons of chalcopyrite in parallel position. W. D. Nevel, Andover, Maine, donated a small group of crystallized montebasite from Maine, and William Sullivan of Nucla, Colo., a specimen of the rare calcium vanadate, pascoite, from that State. Frank L. Hess continued his donations with a considerable number of unusual minerals and ores, including a rare rubidium-bearing mica described by him. Dr. John P. Marble transferred to the division the specimens of pitchblende and other minerals upon which he has made age determinations and analyses. One lot of described minerals from Amelia, Va., was transferred by the United States Geological Survey.

Four gem stones were added to the Isaac Lea collection through the Frances Lea Chamberlain Fund: A very rare blue scapolite cat's-

eye of $3\frac{1}{2}$ carats, a fine red zircon of 10 carats, a green spodumene of 45 carats, and a fancy bronze-colored diamond of 1 carat. The Turquoise Indian Trading Co., Santa Barbara, Calif., presented a selected lot of 18 cut and polished turquoises from their mines in Nevada. Dr. Aleš Hrdlička, of the Museum's department of anthropology, in memory of his wife, Maria Hrdlička, donated six objects lavishly mounted with Bohemian garnets.

Petrology.—Additions to the meteorite collection were obtained largely through the Roebing Fund. Outstanding additions are a complete pallasite of 14 kilograms from near Antofagasta, Chile, obtained through the efforts of Dr. C. Preston Butler of the Smithsonian Astrophysical Observatory at Calama, Chile. A new fine octahedrite of 29 kilograms, a new hexahedrite of 15 kilograms, and another of 2 kilograms, all from Chile, were obtained by Mark C. Bandy; a complete, coarse octahedrite, weighing 20 kilograms, from New Leipzig, N. Dak., was secured through Daniel Buchwitz, Jr. Another important addition is a third of the Shallowater, Tex., chladnite.

Gifts of meteorites include a small fragment of the Kappakoola. Australia, chondrite from R. Bedford, Kyancutta, South Australia, and a small mass of a chondrite from Great Bear Lake, Canada, from Hugh S. Spence, Ottawa, Canada.

Other new meteorite falls added to the collection are: Arriba, Colo.; Bennett County, S. Dak.; Channing, Tex.; Farley, N. Mex.; Fayetteville, Ark.; Gladstone, N. Mex.; Grady no. 2, N. Mex.; Grant County, Kans.; Hale Center, Tex.; Hawks Springs, Wyo.; Loomis, Nebr.; Morrill, Nebr.; Morven, New Zealand; Mount Morris, Wis.; Tacubaya, Mexico; Ute Creek, N. Mex.; Quartz Mountain, Nev.; and Spearman, Tex. The total number of distinct falls represented in the collection is now 635.

The most important addition to the rock collection is a suite of lavas from Easter Island, South Pacific, studied and to be described by Mark C. Bandy.

A collection of studied rocks and ores from the North and South Carolina gold belt and a series of nodular, orbicular, and banded chromite ores from northern California were transferred by the United States Geological Survey, and a collection of monazite sands and related material illustrating the occurrence at Bald Mountain, Wyo., was presented by George L. English, Rochester, N. Y. Specimens of outstanding merit for exhibition are mercury ores from Arkansas, gift of Leo Yount, Amity, Ark.; several masses of pure cerargyrite from the Balleza District, Mexico, from A. W. Morris, Parral, Mexico; and a very rich specimen of gold and silver tellurides from the Magnolia District, Colo., donated by George Jump and Edward Yates, Magnolia, Colo.

Stratigraphic paleontology.—The largest and most valuable accessions in this division were obtained by members of the staff through collections in the field or by personally arranged exchanges. Dr. G. A. Cooper, assisted by P. E. Cloud, secured about 30,000 specimens of Devonian invertebrates as a result of their summer field trip of 1936, extending from New York to Missouri, and Mr. Cloud on a later trip brought in extensive sets of Cretaceous and Tertiary invertebrates from New Jersey and Delaware. Likewise, Dr. R. S. Bassler, while engaged in research work in various European museums, had opportunity to obtain more than 20,000 specimens of invertebrates from Tertiary and Cretaceous rocks of certain well-known areas that previously had been poorly represented in the Museum's collections. As a result of his trip several exchanges were arranged, one with the Narodni Museum at Prague, Czechoslovakia, which resulted in the acquisition of Devonian invertebrate fossils from classic localities in Bohemia. Another comprised extensive sets of Austrian and Australian Tertiary Bryozoa obtained from Dr. J. Sulc, of Prague. A third consisted of two valuable collections of London Basin fossil shells received from Arthur G. Davis, London, England, specialist in the study of the English Tertiary.

Dr. Cooper arranged exchanges that brought to the Museum the following important materials: 187 specimens of fossil brachiopods from the Mesozoic of England and Africa, received from the British Museum; a collection of Mesozoic brachiopods, from Prof. Charles Schuchert, New Haven, Conn.; and a set of Ordovician and Silurian brachiopods from Anticosti Island, from the Peabody Museum of Yale University. From the New York State Museum two large exchanges were obtained, one an important set of plants and animals representing various geologic formations of England, France, and Italy, and the other a set of slides of European fossil Foraminifera and Ostracoda, including material from the T. Rupert Jones collection. The type series was enriched by Devonian ostracods of Pennsylvania, described and presented by Prof. Frank M. Swartz, State College, Pa.

Two collections of bryozoans and blastoids from the Mississippian rocks of Missouri, received from Clarence M. Jenni, Festus, Mo., and extensive sets of conodonts from the New Albany shale of Indiana, from Prof. John W. Huddle, Chapel Hill, N. C., comprise other notable exchanges.

By purchase from Ward's Natural Science Establishment, Rochester, the museum secured a small but important collection of Silurian-Devonian Pelmatozoa, and from the Kyancutta Museum of South Australia 46 specimens of the peculiar spongelike Lower Cambrian Archaeocyathinae from South Australia.

Of especial value for the study series are Middle Cambrian invertebrates from Thorn Hill, Tenn., presented by John F. Mason, of Princeton University, and Upper Canadian fossils from Lawrence County, Ark., by Byron C. Marshall, of Imboden, Ark.

Two important collections of Tertiary fossils from the Hawaiian Islands are recorded, one obtained by H. T. Stearns and transferred by the United States Geological Survey and the other received as a gift from Wray Harris, of Tutuila, Samoa.

Additions to the paleobotanical collections worthy of special mention are fossil plants ranging in age from Devonian to Tertiary time, including a number of specimens suitable for exhibition. Among the latter are fossil wood from Ontario, purchased from Charles Southworth, and a coniferous tree trunk from the Lower Cretaceous of Maryland, presented by William H. Easton, as well as a fine set of Eocene plants from Missouri, the gift of A. S. Duckworth. Fossil seeds and wood from Jack County, Tex., of interest for the study series, were obtained by exchange from Ward's Natural Science Establishment, while Dr. Erling Dorf, of Princeton, N. J., presented a plant collection from the Devonian of the Bear Tooth Buttes in Montana.

Vertebrate paleontology.—The material resulting from the division's major field expedition constitutes the accession of first importance in vertebrate paleontology. About 600 determinable specimens of Paleocene and Pliocene mammals were collected by Dr. C. L. Gazin and party in New Mexico and Arizona during the field season of 1936.

A composite mountable skeleton of *Mylodon harlani*, a giant sloth from the famous Rancho La Brea deposits in California, was acquired through an exchange with the Los Angeles Museum of History, Science, and Art; and Dr. E. L. Troxell, Trinity College, Hartford, Conn., presented a cast of an *Eohippus* skeleton.

By purchase were obtained a mounted skeleton of *Merycodus* from the Miocene of Montana; an excellently preserved skull of the extinct musk-ox *Symbos cavifrons*, from the Pleistocene of Indiana; a nearly complete fossil turtle, *Aspideretes superstei*, from the Paskapoo formation of Alberta, Canada; and two eggs of the extinct ostrich, *Struthio andersoni*, from the loess of China.

INSTALLATION AND PRESERVATION OF COLLECTIONS

Exhibition work accomplished by Curator W. F. Foshag in the divisions under his supervision includes a variety of subjects. First, a cabinet to illustrate fluorescence of minerals under the action of ultraviolet rays was completed and put in operation. Through the operation of an automatic switch the visitor can view the normal

colors of the minerals under ordinary electric light and contrast these with the beautiful tints shown under the ultraviolet rays. In this cabinet there is incorporated a stereomotorgraph machine, where the principal addition of the year was a set of slides illustrating the subject of astronomy. By the aid of new lighting the gypsum-cave exhibit was much improved. An introductory case showing the classification of crystals by means of specimens and glass models and the physical characters of minerals in general was installed at the entrance of the exhibition hall. The systematic collection of minerals was improved by the substitution of better material in a number of instances, and a new case was installed for the display of the epidote crystal groups and associated minerals from the Prince of Wales Island, Alaska, collected by Assistant Curator E. P. Henderson.

In the ore exhibits a more satisfactory arrangement was accomplished, leaving the open aspect so much to be desired. Here the cases devoted to mercury and to aluminum were completely reinstalled with the addition of excellent new material. Notable additions were also made to the gold-ore exhibit. The meteorite collection was thoroughly overhauled and improved by the removal of many small, inconspicuous specimens and their replacement by new and better exhibition material. Owing to the large amount of cutting and polishing necessary, these changes are not yet fully completed. In connection with this work the catalog of all known meteorite falls with geographical check lists, as well as the catalog of the meteoric material in the national collections, was brought up to date.

The Shepard collection of meteorites, long segregated, was cataloged and incorporated in the regular series. The type collection of minerals was rearranged and relabeled to bring it up to date, the Henry Washington collection of analyzed rocks and accompanying thin sections was labeled, and a finding list of all the minerals was prepared. The gem collection received attention, with the introduction from time to time of choice new material, but the most important work here was the preparation of a large and comprehensive catalog relating to gem stones. In the rock-cutting laboratory the work of cutting, polishing, and preparing minerals, ores, meteorites, and gems continued uninterruptedly, particularly in the preparation of thin sections for this department and the division of ethnology, and the cutting and polishing of meteorites, slabs of agatized wood, and pegmatites.

Dr. C. E. Resser, curator of stratigraphic paleontology, with the aid of several Works Progress Administration workers was able to bring well toward completion the preparation and installation of the great Walcott Cambrian collections in the study series. With this

aid he further was able to arrange the Paleozoic pelecypod collection, to transfer the trilobite series to a more logical position, and to clean and arrange more systematically the biologic series in general.

Dr. E. O. Ulrich, associate in paleontology, contributed his full-time services for the greater part of the year to the separation and identification of various lower and middle Paleozoic faunas, which had long remained unnamed because of difficulty in their preparation and study. These embraced particularly the large Ordovician collections made by Dr. Walcott in the Rocky Mountain area and more recent accessions from the base of the Ordovician in Arkansas.

The field work of Dr. G. A. Cooper, assistant curator of stratigraphic paleontology, in the summer season of 1936, resulted in such large collections of invertebrate fossils that he was occupied for 4 months in their preparation and preliminary separation. Under a grant from the Geological Society of America for the preparation of a monograph on the Chazyan brachiopods, Preston E. Cloud was employed to assemble and prepare all such specimens from the various Museum series and to make the photographs necessary in illustrating the new species. With this help about 15,000 specimens were brought together, and many hundreds of them were prepared by chemical and mechanical means. This project was practically completed with the making of over 1,200 photographs. Dr. Cooper also continued his efforts on the improvement of the collections by the etching of fossils from partly silicified limestone with acid. By this unique method many fine sets, particularly of trilobites and brachiopods, were obtained.

The head curator's contribution to the increase and identification of the paleontological collections consisted first in obtaining many fossil invertebrates, in preparing casts of various type specimens, and in arranging for exchanges of much needed new material while engaged in field and in research work in various localities and museums in England and on the Continent during the summer of 1936. His duties of conducting various educational groups through the Museum, explaining the aims and purposes of the Institution, and preparing articles on educational subjects reduced his time for the work of identification of collections, but with the aid of two National Youth Association students he was able to prepare and greatly condense the large collections of conodonts (supposed fossil fish teeth) that had accumulated throughout many years. He was also occupied in the relabeling of the older collections that lacked the exact information necessary today, in which work he had the advice of Dr. E. O. Ulrich and other members of the staff.

Miss Margaret Moodey, aide, was employed part of the year in work relating to the Springer collection of echinoderms, mainly in

bringing labels and records up to date and in assembling bibliographic material for a synoptic list of Paleozoic Pelmatozoa in general. This collection, like all others in the department, requires much effort in relabeling according to modern-day standards.

Dr. Mary J. Rathbun, associate in zoology, as heretofore, cared for the fossil-crab collection and continued researches on this subject. She also generously aided the department with her identifications. Dr. Paul Bartsch, curator of Cenozoic collections, took advantage of the Federal relief help and made noteworthy advancement in the cataloging of the collections.

With the aid of Works Progress Administration workers, thousands of books and pamphlets were repaired, indexed, and filed, many hundreds of pages of manuscript were typed, and many thousands of labels written and drawers and specimens cleaned. Conspicuous items in this work were the tagging of more than 50,000 specimens with locality numbers and the typing of more than 10,000 locality cards. The various bibliographic indices so necessary in systematic work were kept well up to date.

The exhibition series of vertebrate fossils was increased by the installation of a mounted skeleton of the antilocaprid *Merycodus* cf. *necatus*, the first member of this group to be exhibited in this Museum. The mounting of an articulated skeleton of the notungulate *Scarrittia canquelensis* was completed by Norman H. Boss and is ready for exhibition. This specimen was mounted as a slab precisely as found and depicts a type of preservation not previously represented in our collections. It is unique in being the first South American fossil animal to be displayed here.

The 7 months' detail of the chief preparator to the Dallas Centennial Exposition resulted in the almost complete preparation there of a *Camarasaurus* skeleton, which it is planned to mount in the National Museum. This specimen measures about 30 feet in length and is of a genus not previously represented in our exhibits. Good progress was made in the preparation of the 1935 collection from the Wasatch of Wyoming, and the skillful preparation of a complete articulated skeleton of *Coryphodon* by Thomas J. Horne resulted in a splendid exhibition specimen that will be mounted at the earliest opportunity.

Through the assistance of John Dante, a student worker, the collection of identified fossil fishes is now systematically arranged. With the help of a Works Progress Administration employee, more than 1,000 specimens were cataloged, labeled, numbered, cleaned, and neatly arranged in standard trays, and the bulk of this collection is now in excellent shape.

The collections of fossil mammals from the Wasatch, Torrejon, and Puerco formations resulting from the field trips of recent years

were segregated and a considerable portion identified by Assistant Curator C. L. Gazin. Choice specimens from these collections formed the subject of a temporary exhibit in the foyer previous to their installation in the regular exhibition series.

INVESTIGATION AND RESEARCH

Dr. R. S. Bassler, head curator, completed a monographic study of the Hederelloidea, a new order of Bryozoa, and brought well toward completion another section of the Fossilium Catalogus entitled "A Bibliographic Index of Paleozoic Pelmatozoa." He also wrote a field study in physical geology; assisted, as did several other members of the department, in the preparation of scripts for radio broadcasts; and prepared an appreciation of the life and scientific accomplishments of the late Dr. August F. Foerste, associate in paleontology, for publication by the Geological Society of America.

Dr. W. F. Foshag, curator of mineralogy, continued his studies on two new copper chlorides and completed research on the Pasa-monte meteorite and an investigation of arseniosiderite from Mexico. The study of the unusual Shallowater meteorite was begun. E. P. Henderson, assistant curator of physical and chemical geology, made investigations, including a number of chemical analyses, of the minerals collected by him at Prince of Wales Island, Alaska. He also completed several analyses and related chemical studies on anorthite, particularly relating to the water content, which may have an important bearing on the constitution of silicate minerals. He has under study an unusual rock of extremely basic nature.

Dr. C. E. Resser, curator of stratigraphic paleontology, completed his paleontological studies on the Cambrian of the southern Appalachians and prepared for publication his third paper on Cambrian nomenclature. Dr. G. A. Cooper, assistant curator of stratigraphic paleontology, considerably advanced two monographs, one on Chazyan brachiopods and the other on the Devonian brachiopods of Michigan.

Dr. E. O. Ulrich, associate in paleontology, devoted his efforts to a revision of the monograph of Canadian brachiopods, prepared in joint authorship with Dr. Cooper, and to his studies on Ordovician faunas of Colorado and Arkansas.

C. W. Gilmore, curator of vertebrate paleontology, submitted for publication two manuscripts, "Detailed Skull Structure of a Crested Hadrosaurian Dinosaur" and "Descriptions of New and Little-known Fossil Lizards from North America." The description and illustration of the reptilian collection from the Two Medicine formation progressed satisfactorily. Some time was spent in research into the history of the division of vertebrate paleontology in antici-

pation of preparing a record on this subject covering the 90-year period between 1846 and 1936.

Dr. C. L. Gazin, assistant curator of vertebrate paleontology, devoted part of his researches to a study of the San Pedro Valley mammal faunas, including the Carnivora, Perissodactyla, and Artiodactyla. He has also made studies of the Eocene and Paleocene mammals resulting from field trips of recent years.

Dr. Remington Kellogg continued his studies of the cetacean collections, devoting especial attention to the Cetotheres, of which he proposes to make a monographic study.

Dr. Alexander Wetmore continued his studies on the fossil bird collections, publishing a paper entitled "Two New Species of Hawks from the Miocene of Nebraska."

Various studies in invertebrate paleontology and paleobotany were advanced by members of the Federal Geological Survey staff located in the Museum Building. Dr. Charles Butts completed the description of the characteristic fossils of the Paleozoic rocks of Virginia for early publication by that State. Dr. Josiah Bridge continued his monographic studies upon peculiar Canadian gastropods, and Drs. L. W. Stephenson and J. B. Reeside were engaged in researches on Cretaceous paleontology. Investigations in the study of Foraminifera, and the care of the collections occupied Lloyd G. Henbest during the year. The paleobotanical researches of Dr. R. W. Brown resulted in a description of the Colgate sandstone flora of Montana and an advancement of his studies of the Fort Union flora. Here also Dr. C. B. Read completed a monograph on the Pocono flora and further advanced his editorial work on the monograph of the Pottsville flora by the late Dr. David White.

There were 426 lots of material received for identification and distributed to the various divisions as follows: Mineralogy and petrology, and economic geology, 285; stratigraphic paleontology, 88; vertebrate paleontology, 53.

DISTRIBUTION AND EXCHANGE OF SPECIMENS

Geological specimens were distributed as follows: Gifts, 2,242 specimens; exchanges, 3,307 specimens; loans for study, 4,193 specimens.

NUMBER OF SPECIMENS UNDER DEPARTMENT

The estimated total of specimens in the department is as follows:

Mineralogy and petrology-----	148, 070
Geology, systematic and applied-----	96, 817
Stratigraphic paleontology-----	2, 189, 175
Vertebrate paleontology-----	28, 702
Total-----	2, 462, 764

DEPARTMENT OF ARTS AND INDUSTRIES

(CARL W. MITMAN, *Head Curator*)

The department of arts and industries is today largely a museum of historical record in engineering and industry. Its collections in this sense are definitely permanent and enduring, and new materials are sought with this idea constantly in mind. In this respect the department experienced a normal year in spite of division of interest in this country toward other display in technical museums and international expositions.

In addition to his regular duties, Carl W. Mitman, head curator, continued to serve as contact officer for the Smithsonian Institution in connection with Federal exhibits at the three expositions, at San Diego, Dallas, and Cleveland. Two of these, at Dallas and at Cleveland, were reopened for a second season and were in full progress at the close of the year.

Frank A. Taylor, curator of engineering, continued to serve as associate director of the Historic American Merchant Marine Survey (Works Progress Administration Federal project no. 6) and made several visits to regional offices of the survey on the Atlantic coast to advise with the supervisors and inspect and aid in the planning of the work.

ACCESSIONS

The number of accessions—237—was 9 less than that for last year. The number of specimens included in the accessions was 3,180, or an increase of 899 over the preceding year. This was due largely to the volume of two accessions—new chemicals for the section of organic chemistry and a collection of Brazilian woods. The specimens received this year were distributed as follows: Engineering, 577; textiles, 252; organic chemistry, 666; wood technology, 941; medicine, 231; graphic arts, including photography, 513.

Engineering.—Of the 92 accessions received, 34 pertain to aeronautics, 55 to mechanical technology, and 3 to mineral technology. The total number is considerably larger than that of last year, owing primarily to the number of accessions resulting from the activity of the Historic American Merchant Marine Survey. Without these the total is about the same as last year.

The outstanding accession in aeronautics was the gondola of the stratosphere balloon *Explorer II*, in which Capt. (now Maj.) A. S. Stevens and Capt. O. A. Anderson, United States Army, established the present altitude record (72,395 feet) for a manned balloon. This flight was made from Stratabowl, near Rapid City, S. Dak., on

November 11, 1935, under the auspices of the United States Army and the National Geographic Society. The gondola, which is a huge sealed sphere of DOWmetal, was presented to the Museum by the National Geographic Society after being exhibited around the country.

Participation in the Great Lakes Exposition at Cleveland, Ohio, permitted the division to have constructed 12 models of commercial airplanes illustrating the development of types used during the first 10 years of the Air Mail Service. Other models received during the year include four current Navy types, namely, the Curtiss *Helldiver* and Vought *O3U3* made and lent by LeRoy McCallum, the Northrop *BT-1* presented by the Northrop Corporation, and the Curtiss *SBC3* presented by the Curtiss-Wright Corporation. William B. Stout presented models of his *Bat Wing* and cabin plane, illustrating the early use of large tapered wings. Paul Robertson made and presented two World War German types, the *Albatross D-3* and the *Rumpler*, and William Gladstone presented the *Pfalz D-12*. Models of the Stinson *Detroit* and Lockheed *Vega*, used by Sir George Hubert Wilkins in his 1927 and 1928 Arctic flights, were presented by W. E. Scripps, of the Detroit News, which was one of the sponsors of the flights. The Taylor Aircraft Co. presented a model of its *Cub* type, and Vincent J. Burnelli presented the original wind-tunnel model of the *RB-1* of 1920.

The interest occasioned by the Museum's celebration of the twenty-fifth anniversary of Calbraith P. Rodgers' transcontinental flight of 1911 resulted in the accessioning of a mail bag carried on the flight and a propeller that was on the plane when it crashed with Rodgers in 1912, both received from S. F. DuRee, Long Beach, Calif. The same occasion led to the presentation by W. Albert Pease, Jr., of a laurel wreath given to Rodgers by the city of Long Beach. A collection of pictures, clippings, instruments, and insignia was received from Maj. Russell L. Maughan, famous for his "dawn-to-dusk" transcontinental flight of 1924.

Mrs. Wiley Post presented instruments formerly on the *Winnie Mae*, which were removed from that plane by Post and used on the plane in which he met his death. J. Stirling Getchell, Inc., presented five scrapbooks describing Post's tour of the United States in the *Winnie Mae* in 1933. Other interesting accessions included a copper plaque trophy, awarded to John Moisant for his flight across the English Channel in 1910, presented by his sister, Miss Matilde Moisant; one of the newly developed Everts 1-bladed propellers made by Sensenich Brothers and presented by the Everel Propeller Corporation; an old-type parachute with its basket container, presented by Miss Babe Smith; a collection of illustrations, clippings, and publications relative to the work of Alberto Santos-Dumont, presented

by Mrs. Henry Breckenridge, who was an interested observer of Santos-Dumont's early dirigible demonstrations at Paris and who actually piloted his airship on one occasion; a collection of data relating to early airplane mail flights sponsored by the Post Office Department, collected and presented by Mrs. Charles P. Grandfield, widow of the First Assistant Postmaster General at the time these flights were being made; and a reproduction of a Laurence Hargrave box kite of 1890, made and presented by the Abercrombie & Fitch Co.

The most interesting accession in watercraft is a collection relating to the life and work of John W. Griffiths, naval architect, writer, and editor, whose ships, the *Rainbow*, 1845, and the *Sea Witch*, 1846, were the first of the famous American clipper ships. The collection includes one half-model, a large number of original drafts, and many papers, letters, and notes relating to Griffiths' active life. The material was presented in part and loaned in part by Miss Marion H. Virnelson, granddaughter of Griffiths. The historic American merchant marine survey activity resulted in the accessioning of a large number of half-models. These include models of a representative group of vessels employed in the fisheries of the Gulf coast, which were collected by Philip A. Sawyer of the survey; half-models of "Hampton" boats presented by Capts. Frank Johnson and Dennis Wilson; two rigged models of a Piscataqua River packet and a gundalow of about 1886, presented by Capt. Edward H. Adams. Ralph E. Cropley added to his former gifts of marine material 3 albums of photographs and prints of Atlantic steamships, 29 volumes of notes and pictures of steam vessels, and 4 volumes of notes on sailing vessels, all bound and indexed for reference.

To the collection pertaining to land transportation was added the first Franklin automobile (no. 3) to leave the Franklin factory in 1902, the oldest existing example of the car that was the most successful and persistent of the air-cooled automobiles. The long search for a good early example of the American buggy was more or less successfully ended by the acquisition of a gig phaeton of about 1860, which was presented by Mrs. Carrie Bayly Webster, Mrs. Delia Bayly Orem, and the children of Alexander Shepard Bayly. Three accessions to the railroad collection included a fine operating scale model of the "Royal Blue" train of the Baltimore & Ohio Railroad, which was made by Fletcher Speed and presented by the Baltimore & Ohio Railroad Co.; a large hand-operated model of a Walschert's locomotive valve gear presented by the Capital Division 160, Brotherhood of Locomotive Engineers; and a short section of steel-capped rail, not heretofore represented in the collections, presented by James L. McLaughlin.

In the field of communications the Buffalo Evening News broadcasting station WBEN presented a high-frequency broadcasting

transmitter, W8XH, designed, constructed, and operated by the staff of WBEN in the period 1933 to 1936. Frank Orth presented parts of a nearly complete shipboard wireless telegraph transmitter of the period 1912 to 1915. A complete Edison cylinder phonograph was received from William P. Whelan. This machine, which plays both 2- and 4-minute records, will be used for playing back records of historic and ethnological interest as well as for exhibition. A most interesting phonograph accession is that of the Edison talking doll of about 1890, which was presented by Miss Mary Mead Sturges. The talking part of the doll is a miniature hand-operated cylinder-record phonograph element that recites a nursery rhyme. Remington Rand, Inc., continued to make additions to the typewriter collection by presenting a Bar-Lock no. 4, a Remington-Sholes, an Automatic portable, and a Munson typewriter.

One of the most interesting single items in the history of the calculating machine was added to the national collections when Mrs. Raymond J. Koch, daughter of Dorr E. Felt, presented the original wooden "macaroni box" model of the calculating machine made by her father in 1884-85. This was the first experimental model made by Felt at the beginning of his work, which led to a successful solution of the problem of making a practical key-operated calculating machine. J. G. Sparkes gave a fine example of an eighteenth century French sector, the instrument widely used in connection with the simple dividers by surveyors and navigators for the rapid graphic solution of problems in geometry and trigonometry. A miniature wag-on-the-wall clock with brass and wooden works, probably early nineteenth century German, was presented by Mrs. Eleanor W. Bisell, Mrs. Caroline W. Shannon, and Mrs. Elizabeth W. Harman. A new gift of watch parts, movements, and cases, illustrating the manufacture of modern watches, was made by the Elgin National Watch Co., through W. H. Samelius, who installed the material in the Museum.

The accession of electrical material of most interest to the institution is that of a small electro-magnet believed to have been made by Joseph Henry at Albany in 1829. This relic was presented by Benjamin L. Dolbear, son of Amos Dolbear, famous telephone pioneer, who received it from Thomas Hall, proprietor of a scientific instrument shop at Boston, to whom it had been given by Joseph Henry. Laurence C. Burton presented a Vetter direct-reading milliammeter, and Charles D. Guthrie gave two early outside-frosted Edison incandescent lamps of about 1890-91.

Three accessions were made to the tool collection: 13 old gun-rifling broaches and 4 hand-made gun sights, presented by F. O. Braley; a sailor's knife with marline-spike, from Dr. Frank R.

Menagh; and a ship carpenter's adz from William C. Hollands. The Ray Oil Burner Co. presented a horizontal rotary oil burner of 1914, which is a rotary cup atomizer type of burner with built-in fan and spiral air passages, typical of the pioneer work of William R. Ray, oil-burner inventor. To the popular fire-fighting relics collection was added a fine example of a sewed-leather fire bucket that belonged to Isaiah Younglove (1783-1843), presented by Miss Margaret Calvert. The most interesting accession in the section of mineral technology is that of four pieces of U-shaped drain tile laid on the farm of John Johnston at Geneva, N. Y., in 1835, presented by Prof. B. B. Robb. This tile is from one of the first installations of agricultural drain tile laid in the United States and was made at Geneva from a sample imported by Johnston from Scotland, where he had observed the beneficial results of the use of drain tile. The installation is still functioning. The Corning Glass Works made a new gift of 11 pieces of current patterns of art glass. These are all of clear crystal and, in contrast with the earlier colored art glass from this same firm, illustrate the modern trend to simpler effects. Carl A. Judsen gave two miners' rubber protective knee pads made by the Judsen Rubber Works, Inc., for inclusion in the collection of miners' personal equipment.

Textiles, organic chemistry, wood technology, history of agriculture, and medicine.—The 2,090 specimens added to the collections in these divisions and sections were contained in 80 accessions, 2 of which were joint accessions with other departments.

Three accessions received in the division of textiles are worthy of mention. One from the Cotton-Textile Institute, New York City, included two lots of specimens representing cotton dress materials produced in the United States, and one from Collins & Aikman Corporation, New York City, comprises a new series of mohair pile fabrics for automobile, bus, and railway cars and plain and figured upholstery plushes and includes valuable and instructive specimens, especially made for the Museum, showing the splitting of double-woven plushes and the method of weaving and cutting the pile of the elaborate figured plushes woven on German wire looms. A third accession, from the Du Pont Rayon Co., New York City, brings new specimens showing the production of the synthetic yarn from wood pulp, and new fabrics, particularly those made from short filaments or "spun" rayon. There was deposited in the division by E. Howe Stockwell, New York City, the Cross of the Legion of Honor that was presented in 1867 at the Paris Exposition to his grandfather, Elias Howe, Jr., by Emperor Napoleon III of France, as "promoter of the sewing machine." A series of specimens showing the development of the mulberry silkworm was transferred from the Depart-

ment of State. The specimens were prepared and mounted by primary-school pupils in Ianaguawa Prefecture, Japan, and presented to President Roosevelt by the International Friendship Society of Japanese school children.

A number of accessions of desirable material for the collection of early American homecraft textiles and needlework were received. An exceptionally fine double-woven coverlet in a John Landes pattern with pine-tree border made about 1798 was presented by Lester W. Stackhouse, Bristol, Pa. A cotton-and-wool "overshot" weave coverlet in "Double Bow Knot" pattern, made about 1867, was presented by Miss Maude M. Fierce, Washington, D. C., and two handwoven coverlets of the same type of weave, in star patterns, were lent by Mrs. John H. Murray, of Washington, D. C. Two woven "tufted" work counterpanes, one made in 1798 and the other in 1812, were lent to the collections, the first by Misses Eleanor and Grace Semmes and the second by Mrs. Frances S. Nichols, all of Washington, D. C.

Four appliqued quilts and two pieced quilts were added to the series, five as gifts and one as a loan. From Miss Mary Newman, deceased, through Mrs. Edith Blaisdell Newman, Cheverly, Md., an early nineteenth century, bleached cotton quilt appliqued in green and turkey red tulip pattern; from Mrs. Harry Snideman, Upper Marlboro, Md., as a loan, a cotton applique quilt, in "Whig Rose" pattern; from Miss Maude M. Fierce, Washington, D. C., a cotton applique quilt, "Wreath of Roses"; and from Miss Annie Pine, Catskill, N. Y., a patriotic quilt in a spread-eagle pattern with 28 stars, made in 1846. The two pieced quilts, together with the woolen quilting guides used for outlining and quilting designs, were also presented by Miss Maude M. Fierce.

Handwork with flax was represented by a number of specimens, including two linen sheets and a sampler presented by Mrs. Edward V. Clarke, Waukesha, Wis., and two examples of table-linen patterns, woven in 1820 and 1826, from Mrs. Edwin G. Foster, Rochester, N. Y. Miss Katherine Lee Bryarly, deceased, through her sister, Mrs. B. B. Spencer, presented several textile implements used in the house, including a wool wheel, a clock reel, and wool cards.

Specimens of homecraft in the form of needlework were presented by Mrs. Caroline W. Shannon, Mrs. Jean Daugherty, Miss Maude M. Fierce, and Mrs. Henry Clarke Coe, all of Washington, D. C. These included an example of "crepe work" on satin; a needlework picture, made about 1870, in a combination of plush stitch, cross stitch, and bead embroidery on single thread canvas with wool, silk, and beads; a "fluffy" knitted wool rug made in 1846; a small sample knitted by Miss Fierce to show the method of making the rug; a specimen of darned net of the period of 1875; and 25 needlework samplers that

had previously been lent to Mrs. Coe for exhibition. There were also two gifts of historic prints on textiles: an "event" apron, printed for the Cotton Centenary held in Pawtucket, R. I., in 1890, to commemorate the starting of Samuel Slater's cotton spinning machinery on December 20, 1790, from Miss Bertha C. Woods, Woodville, Mass.; and two photographic prints of George Washington commemorative handkerchiefs, from Robert E. Coe, Upper Sandusky, Ohio.

Sixty study samples of valuable old fabrics were presented by Mrs. Julia Brenner, San Francisco, Calif. These include American, European, and Oriental silk, cotton, and wool textiles, dating from the sixteenth to the twentieth century, and were collected by Miss Ruth M. Brenner.

For the section of organic chemistry, the B. F. Goodrich Rubber Co., Akron Ohio, furnished 128 additional specimens showing stages in the manufacture and history of rubber boots, shoes, and coats, together with colored transparencies of actual operations. This company also supplied specimens illustrating the anode process for rubber deposition from suspension by the electric current, one of the latest innovations in rubber technique. Another exhibit of popular appeal was one of 97 specimens from the Brown Co., Portland, Maine, illustrating the preparation of practically pure cellulose from wood fiber and products of its application in high-grade plastics, papers, and substitute leathers.

A collection of 248 specimens of new chemicals of commerce, the results of research in 1934 and 1935, was donated by *Chemical Industries*, a journal published in New York City, through William Haynes, editor and collector of the material. Among them is a sample of urea, made by a new synthetic process from carbon dioxide and ammonia. Urea was the first synthetic organic chemical ever produced and was the forerunner of a new era in chemistry. The inspiration given by its synthesis from inorganic materials led to further research and the preparation of many thousands of dyes, medicinals, perfumes, flavors, photo, and other organic chemicals of great importance. Urea itself is produced on a commercial scale and has many uses, especially for plastics and fertilizers.

The Florasynth Laboratories, New York City, contributed 96 samples of perfumes and flavors, natural and synthetic.

Ninety-two specimens relating to the history of the manufacture of horn combs by the Noyes family, who carried on this industry for 162 years, were presented by Miss Anna Isabel Noyes and Miss Dorothy White, of Binghamton, N. Y. The material included crude horns, stages in the manufacture of horn combs of various types, tools used in fashioning them, photographs of the machine invented for the purpose, and family photographs of the founders of the Noyes Comb Co.

For the section of wood technology, the most outstanding accession of the year was a collection of 835 woods from Brazilian Amazonia secured from Boris A. Krukoff. These woods are backed by herbarium material from the same trees, much of which is deposited in the National Herbarium, a complete set being at the New York Botanical Garden. Continuing an exchange, begun in previous years, the New York State College of Forestry sent the Museum 70 wood samples of commercial timbers of the United States backed by herbarium material. This is an important addition and brings the total of samples received to date to 174. It will continue at least until all the more important commercial woods starred in the United States Forest Service check list are assembled.

In addition to the above, 15 miscellaneous specimens were received for the study collection as follows: Three samples of "cube", *Lonchocarpus* spp., used by the natives of Brazil for poisoning fish; five wood samples, mostly of the Cactaceae, collected in Mexico and Arizona by Ira L. Wiggins of the Dudley Herbarium, Stanford University, Calif.; wood samples of two species of *Schinopsis* from the Yale School of Forestry; one trunk section of castor bean from Clayton L. Polley, Washington, D. C.; one trunk section of coffee-tree from John Leonard, Urbana, Ohio; one trunk section of tangerine wood from Walter H. Drake, Mount Dora, Fla.; and one specimen each of the New Zealand "whau" tree and the James River hybrid walnut from cooperators in the Division of Plant Exploration and Introduction of the United States Bureau of Plant Industry.

A noteworthy addition to the collections was made by the Wood Conversion Co., St. Paul, Minn., in the form of 17 specimens showing stages in the manufacture of the insulating and sound-deadening materials "Balsam-Wool" and "Nu-Wood." This valuable contribution replaces an exhibit, sent to the Museum by this company in 1923, when only one of these products was being manufactured.

Continued interest was also shown by the Hammermill Paper Co., Erie, Pa., in their gift of four specimens, screened pulp, rosin, beaten pulp, and paper machine stock, sent to replace similar materials that had become discolored in their exhibit illustrating the manufacture and use of sulphite wood pulp for writing papers.

The most valuable addition to the division of medicine was a collection of photographs, cut-out maps, drawings, and specimens to illustrate the manufacture and use of the medicine known as anti-venin, an anti-snake-bite serum. The collection pictures the principal poisonous snakes of North, Central, and South America; shows the serpents' poison sacks and fangs; demonstrates how the venom is extracted and used in the manufacture of this medicine; and gives an idea of the extent of illness and death in the United States due to

snake bites. The exhibit was contributed by Sharp & Dohme, Philadelphia, for the public-health section.

The history of medicine section was enhanced by the following contributions: 50 pairs of eyeglasses, representing the period from 1865 to 1933, from Bausch & Lomb Optical Co., Rochester, N. Y.; a plaster mold of a bust of Dr. William T. G. Morton, who introduced practical ether anesthesia, made by the famous sculptor Augustus Saint-Gaudens, and presented by Mrs. Ellen Morton, widow of Dr. William J. Morton, New York City; a physician's hand scale of the eighteenth century, with wooden carrying case and 12 brass weights, from Mrs. Eugenia M. Buchanan, Washington, D. C.; an electrical stethoscope, from Western Electric Co., New York City; a pump syringe in a wooden case and a set of four thumb lancets, with tortoise-shell handles, in a leather case, which were used about 1830 by the donor's father, from Rev. R. G. Harbutt, Canandaigua, N. Y.; a pair of eyeglasses, with holder and case, from Mrs. Charles D. Walcott, Washington, D. C.; a model illustrating the action of a lymph pump, patented by the donor April 19, 1932, and used to produce normal circulation of the body fluids, from Dr. C. Earl Miller, Bethlehem, Pa.; and Chapman's "Reflexes" and a wall chart, from the Rowan Printing Co., Salisbury, N. C.

In the section of pharmacy an interesting collection of 60 specimens was installed to illustrate the preparation and use of a modern medicine, adrenalin (epinephrine, U. S. P.). Originally obtained from the adrenal glands of cattle, the medicine is now produced by synthetic methods, and is one of the most valuable therapeutic agents available to the medical profession. This exhibit was donated by Parke, Davis & Co., Detroit. J. B. Lippincott Co., Philadelphia, presented a copy of the United States Dispensatory, centennial (22d) edition. Official copy 1023 of "The Pharmaceutical Recipe Book", second edition, was received as a contribution from the American Pharmaceutical Association, Washington, D. C. Dr. E. Fullerton Cook, Philadelphia College of Pharmacy and Science, Philadelphia, Pa., donated a copy of the eighth edition of Remington's "Practice of Pharmacy."

The principal additions to the section of materia medica were specimens of new drugs not previously represented in the collection or material received for replacement purposes. Among these were: Histamine phosphate from Hoffman-LaRoche, Nutley, N. J.; calcium creosotate from the Maltbie Chemical Co., Newark, N. J.; and vegetable drugs from Peek & Velsor, J. L. Hopkins & Co., R. Hillier's Son Corporation, Schieffelin & Co., and S. B. Penick & Co., all of New York City.

Graphic arts.—In the division of graphic arts, which includes the section of photography, 65 accessions were recorded during the year.

A noteworthy accession was the wood-engraving tools and materials used by the late Macowin Tuttle during the period of 1870 to 1895 when the American school of wood engraving flourished. The collection was the gift of Mrs. Tuttle. Late in life Tuttle started a series of "wood gravures" made from a laminated board about the size of an ordinary drawing board. The method was to take gauges of various sizes and cut grooves in the board of various widths and lengths in a very enlarged wood engraving technique. When the cutting was finished the remaining surface of the board was blackened by patting it all over with black printer's ink or black paint. A small photograph of such a "wood gravure" looks much like the wood engravings made during the latter part of the last century. Tuttle was very successful with this new method of making large pictures. Three of them are in the possession of the National Collection of Fine Arts. The large "wood gravure" is not used for printing but is an original in the same sense as any drawing or painting.

Besides the wood engraving outfit Mrs. Tuttle presented all the tools used in making "wood gravures" and also two engraved box-wood blocks made during the time when most illustrations were printed from wood. One is the regular reproductive type common between 1870 and 1895. The other is an original block engraved directly from nature. This is the only original wood engraved block of that period possessed by the division.

A wood engraving of Abraham Lincoln was received from James Bann, who at the age of 79 years is among the last of the old wood engravers.

Of important historic significance was the acquisition from Roger Williams of a chromolithograph mounted on specially prepared canvas. This print is a fine imitation of an oil painting made on painter's canvas and mounted upon a stretcher frame. It probably dates from 1870 to 1880, when the embossed chromolithograph was popular. This is the only old print in the division printed directly upon prepared canvas. Recent examples of color printing on canvas, facsimiles of oil paintings, are shown beside this old one.

The division was fortunate in adding two more of the remarkable books that Dard Hunter has been producing in the past 20 years, all relating to making and use of paper. These were "A Paper-making Pilgrimage to Japan, Korea, and China" and "Papermaking in Siam." Mr. Hunter is the only man on record in the history of printing who has completed a book from start to finish; writing it, designing the type, casting it, and printing it on paper of his own manufacture.

Dr. Albert W. Barker presented one of his exquisite lithographs, "Midsummer Moon", together with a description as to how it was made. Dr. Barker is a scientist as well as an artist and has greatly improved lithographic procedure by inventing a new lithographic crayon insoluble in water and a new dampening water containing magnesium chloride, which keeps the stone in ideal condition, preventing each tiny dot of the image from enlarging. This is an important development in the lithographic process. For the lithographic section, too, the Lakeside Press, Chicago, furnished a large and accurate reproduction of Audubon's engraving of "The Pileated Woodpecker", printed in four colors by the "Deeptone" offset lithography.

Frederic W. Goudy, a noted type designer, contributed three examples of fine printing in which his types were used. He was also the author of two of them, "Ands and Ampersands" and "Type and Type Design."

To the half-tone section of the division there was added the original re-engraved half-tone block of "A Mountain Road" by Corot, presented by the West Coast Engraving Co., and the Wayne Color Plate Co. furnished a 120-line half-tone enlarged to eight lines to the inch.

Artistic prints in color were received from Miss Ellen Day Hale, Miss Gabrielle DeVeaux Clements, and Miss Lesley Jackson; etchings from Morris Henry Hobbs, Paul F. Berdanier, Sr., and Charles Woodbury; a lithograph from Frederick K. Detwiller; silk stencil prints from Leo H. Fuller, Inc.; and some Japanese prints from Mrs. Charles D. Walcott.

Drawing materials have for centuries been much the same: oil and watercolor paint, crayons, and pastels in various colors and the late graphite pencil. Recently watercolors have been put in pencil and stick form. The drawing is made directly with the pencil or stick and then brushed over with water, and a combined watercolor and crayon effect is obtained by the pigment partially dissolving and running over the paper in washes. The Eberhard Faber Pencil Co. has supplied these new forms as well as many grades of pencils, pastels in a new form, and a "fixatif" that sets with only a slight darkening of the colors.

Of the 65 accessions in the division of graphic arts, 24 were assigned to the section of photography and 118 specimens added to its permanent collections.

Two years ago the section received by transfer from the United States Geological Survey a Bagley trilens aerial mapping camera, designed in 1917 by Maj. J. W. Bagley and built by C. H. Au. This year the Survey added to the collection the Bagley transform-

ing camera, which prints and corrects the distortion and errors in the negatives made by the trilens camera. Since this early historical camera was constructed great advances have been made, the latest aerial mapping cameras using nine lenses.

W. S. Lively, founder and president of the Southern School of Photography at McMinnville, Tenn., many years ago built a camera that would hold a plate 5 feet high and 2½ feet wide and large enough to be a child's playhouse. Mr. Lively made and finished three negatives with this outfit, a carbon print, "Old Mountaineer", from one of them having been an attractive exhibit in the section for many years. This year the original negative was presented by Mr. Lively through his son Lee A. Lively. This, probably one of the largest dry plates ever made, was manufactured by the Eastman Kodak Co.

Another interesting addition was half a dozen 4" by 5" Carbutt's aluminum film sheaths for cut film. The purpose of these sheaths was to hold cut film so they could be loaded into plate holders and used as were glass plates. John Carbutt (1832-1905) was a pioneer in improving the photographic methods and greatly increased the efficiency of dry plates, being the first to manufacture them in the United States, in 1879.

Twenty pictorial photographs, which strengthened the collection of artistic prints, were received during the year. They are the work of Mrs. J. H. Field, of Arkansas; W. Hurley Ashby, F. R. P. S., of Indiana; and Ruth Kilbourne, of California. George Harris, of Washington, D. C., donated 52 portraits of 30 years ago that are valuable historically.

There were received also a number of old but beautiful daguerreotypes, ambrotypes, and tintypes, as well as historically interesting cameras.

INSTALLATION AND PRESERVATION OF COLLECTIONS

Engineering.—The year was marked by several important exhibition and installation undertakings. The reinstallation of exhibits in the power hall following the painting of that hall consumed a good deal of time at the beginning of the year. Toward the end of the year large-scale changes and improvement in the arrangement of exhibits in the Aircraft Building were completed. Individual exhibition improvements were made in restoring the large coal-mine model and the rebuilding of the model of the Mississippi River steamboat *Grey Eagle*, both with the assistance of W. P. A. craftsmen.

Textiles, organic chemistry, wood technology, and medicine.—Extensive changes were made in the arrangement and installation of the exhibits in the three main halls devoted to textiles. The work was

necessitated by the alteration of the east south range gallery, which had been used for storage of specimens for more than 30 years, into an exhibition hall of 1,200 square feet of floor space. The exhibits illustrating wall and floor coverings were transferred into this new area from the range below and newly installed with much fresh material, while the spaces thus vacated were filled with the exhibits of home handicrafts and home textile industries, such as the spinning and weaving of cotton, wool, and flax, and examples of quilts and samplers. The removal of some of these exhibits from the south hall and their expansion in the east south range necessitated the rearrangement of almost every exhibition case in both halls.

In the section of organic chemistry 14 reinstallations or rearrangements of exhibits were made. These included the collection illustrating new chemicals, rubber manufacture, cellulose products, perfumes and flavors, and horn combs.

The study collection of woods was increased by 920 specimens, chiefly Brazilian woods, and involved much work in connection with their proper preservation. With the assistance of a W. P. A. worker 1,401 small samples of woods were prepared for the study collection.

In the division of medicine a number of important exhibition and installation improvements were completed. Probably the most valuable of these were in the section devoted to the history of medicine and pharmacy, where eight large exhibition cases were equipped with electric illumination, necessitating a complete change in the exhibition methods formerly used. In addition, several new exhibits were installed in the section of public health, and a number of the existing exhibits including dioramas and models were completely renovated and improved. The replacement of deteriorated drugs and the addition of specimens of official new drugs were continued in the section of *materia medica*.

Graphic arts.—The improvement of the division's general offices necessitated a few minor reinstallations during the year, and the usual special monthly exhibitions were continued. They were as follows:

GRAPHIC ARTS

National Collection of Fine Arts: Prints; October 1936.

Gabrielle DeVeaux Clements, Ellen Day Hale, Lesley Jackson, and Margaret Yeaton Hoyt, Washington, D. C.: Prints in color; November 1936.

Morris Henry Hobbs, Chicago: Etchings and drypoints; December 1936.

Polly Knipp Hill, St. Petersburg, Fla.; Etchings and drypoints; January 1937.

John Edward Costigan, Orangeburg, N. Y.: Etchings, drypoints, and lithographs; February 1937.

Charles Butler Keeler, Glendora, Calif.; Prints; March 1937.

Frederick Knecht Detwiller, New York City: Etchings and lithographs; April 1937.

National Collection of Fine Arts: Prints; May 1937.

Otto F. Ege, Cleveland: Medieval illuminated manuscripts collected by Mr. Ege and distributed by the American Federation of Arts; June 1937.

PHOTOGRAPHY

W. Hurley Ashby, Indianapolis: Pictorial prints; September 1936.
The Camera Club, New York City: Pictorial prints; October 1936.
Fort Dearborn Camera Club, Chicago: Pictorial prints, November 1936.
Mary Eleanor Browning, Arlington, Va.: Pictorial prints; December 1936.
E. W. Blew, Whittier, Calif.: Pictorial prints; January 1937.
Lillian A. Guernsey, Arlington, Va.: Pictorial prints; February 1937.
Associated Telephone Camera Clubs, New York City: Pictorial prints; March 1937.
Eleanor Park Custis, Washington, D. C.: Pictorial prints; April 1937.
Washington, D. C., Photographic Society: Pictorial prints; May 1937.

INVESTIGATION AND RESEARCH

As opportunity permitted staff members continued research in fields represented by the collections under their charge, prompted by the acquisition of new material and the better arrangement of the old. Frank A. Taylor, curator of engineering, completed during the year the manuscript for an illustrated catalog of the mechanical collections in the division.

Dr. Frederick L. Lewton, curator of textiles, devoted some time to a study of the activities of Eli Whitney in connection with the invention and development of the cotton gin, primarily for the purpose of verifying the authenticity of the model now exhibited in the Museum. Dr. Charles Whitebread, associate curator of medicine, studied many original patent models in the collections of inventions designed to simplify the work of those engaged in the preparation of medicines, and prepared a paper entitled "Early American Pharmaceutical Inventions", to be read at a pharmaceutical convention. William N. Watkins, assistant curator, section of wood technology, has been making a study of certain tropical American woods to determine why these woods so quickly dull tools. Some of the troublesome woods examined were not particularly dense, and did not contain sufficient crystals of calcium oxalate to turn the teeth of a saw, but appeared to contain a resin which, when brought to the surface by the heat of sawing, immediately hardened upon exposure to the air. These studies are being continued.

Much assistance was rendered other Government agencies, notably: The National Aeronautic Association in regard to the history of early aircraft records and the evaluation of historic relics and other possessions of the association; the Office of Education in connection with the publication of the handbook *Aviation in Public Schools*; the Department of Justice in connection with litigation involving priority of invention in regard to aircraft devices; identification of

specimens for the Tariff Commission; the Forest Products Division of the Bureau of Foreign and Domestic Commerce; the Federal Bureau of Investigation; and the Bureau of Plant Industry. The usual large number of identifications of objects brought or sent to the department by private individuals were made by the staff. There was a steady stream of old watches, tools, mathematical and surgical instruments, sewing machines, old textiles, pieces of furniture, and buttons.

Frank A. Taylor, curator of engineering, made several trips to the regional offices of the Historic American Merchant Marine Survey in connection with his position as associate director of that activity. He visited New York in December to consult with the men who were conducting the George Westinghouse memorial meetings there with a view to developing a Westinghouse exhibit for the National Museum. During the same trip he visited the National Power Show to examine exhibits there which might be suitable for the Museum collections. In October Dr. F. L. Lewton, curator of textiles, visited Binghamton, N. Y., to procure specimens relating to the manufacture of horn combs. Miss Aida M. Doyle, aide in organic chemistry, visited industrial plants in the vicinity of Pittsburgh. C. Allen Sherwin, scientific aide in graphic arts, visited New York and Philadelphia to obtain specimens for the permanent collections and to acquire information relative to proposed exhibits.

DISTRIBUTION AND EXCHANGE OF SPECIMENS

The distribution from the department totaled 841 objects consisting of specimens, photographics, and prints. Of these there were loaned to educational institutions 725 items, of which 546 were contained in six traveling exhibits relating to the graphic arts. These were shown during the year in 23 places throughout the United States. Gifts to other institutions totaled 100 items, and 16 were distributed as an exchange of specimens.

NUMBER OF SPECIMENS UNDER DEPARTMENT

The specimens in the department, now numbering more than 127,500, are assigned as follows:

Engineering	16, 363
Textiles.....	14, 783
Wood technology	10, 497
Organic chemistry.....	22, 098
Foods	975
Agricultural history	1, 226
Medicine	18, 016
Graphic arts, including photography.....	43, 557
Total	127, 515

DIVISION OF HISTORY

(THEODORE T. BELOTE, *Curator*)

The past 12 months have constituted a period of exceptional importance in the development of both the study and the exhibition work of the division of history. The interest of the public in the work of the division was indicated by its response to four broadcasts in the Smithsonian-Office of Education series, "The World is Yours", on the following subjects: "Coins in History", "The George Washington Collection", "The Richard Mansfield Collection", and "Stamps in History."

The assistant curator, Capt. Charles Carey, while in Europe on furlough in the autumn of 1936, made an informal study of a number of European historical museums and obtained much data of value concerning museum technique.

ACCESSIONS

The additions to the collection came in 99 accessions, aggregating 1,974 specimens.

The art series was increased by the addition of a portrait of Col. John S. Crosby by Alphonse Jongers, presented by Mrs. S. V. R. Crosby.

In the costume series there were added two coats worn by President Benjamin Harrison, presented by William Henry Harrison. A fine and representative collection of jewelry of the type worn by American women during the nineteenth century was presented by Mrs. Daniel Gardner.

To the domestic series were added several objects of unusual domestic and historical interest. Among these were a mirror of the eighteenth century donated by Edgar J. Rollins and two half-round mahogany tables owned by Benjamin Franklin and bequeathed to the Museum by Miss Susan P. Keech.

New material in the military series included a United States flag flown over Fort Atares, Habana, Cuba, in 1898, presented by William Henry Harrison. A military relic of much interest was an epaulet worn during the period of the Revolution by Col. Benjamin Eyre and presented by Gustav Abbehusen. A Russian military sword and scabbard of the nineteenth century was presented by William A. Hughins. An addition of special interest to the military series was a campaign chest of Napoleon I of France and presented by him to Emperor Alexander I of Russia in 1808. This chest, made of mahogany and inlaid with brass, contains a number of

trays and compartments filled with various objects. The chest and contents were received by the Museum as a loan from Houbigant, Inc.

The naval series was increased by the addition of models of the U. S. S. *Texas* and the U. S. S. *Preston*, presented by Raymond Adams. A heliograph from the Spanish warship *Reina Mercedes*, sunk in Santiago Harbor, 1898, was presented by Mrs. George Kennan.

A number of important additions were made to the numismatic series. These included specimens of the following United States commemorative half-dollars; Albany commemorative half-dollar, gift of Miss Gertrude K. Lathrop; Arkansas Centennial half-dollar, gift of the Arkansas Honorary Centennial Celebration Commission; the Columbia, S. C., Sesquicentennial half-dollar, gift of the Columbia Sesquicentennial Commission; the Bridgeport, Conn., half-dollar; the Cleveland, Ohio, half-dollar and the Cincinnati, Ohio, half-dollar, transferred from the Treasury Department, the Daniel Boone Bicentennial half-dollar, gift of the Daniel Boone Bicentennial Commission; the Delaware Bicentennial half-dollar, transferred from the Treasury Department; the Elgin, Ill., Pioneer Memorial half-dollar, gift of the Elgin Centennial Monumental Committee; the Lynchburg Va., Sesquicentennial half-dollar, gift of the Lynchburg Sesquicentennial Association; the Long Island, N. Y., half-dollar, transferred from the Treasury Department; the New Rochelle, N. Y., Two Hundred and Fiftieth Anniversary half-dollar, transferred from the Treasury Department; the Old Spanish Trail half-dollar, gift of L. W. Hoffecker; the San Diego, Calif., half-dollar, gift of the California-Pacific International Exposition; the San Francisco-Oakland Bay Bridge half-dollar, gift of the San Francisco-Oakland Bay Bridge Celebration Commission; the Sir Walter Raleigh half-dollar, gift of the Roanoke Colony Memorial Association; the Wisconsin Centennial half-dollar, transferred from the Treasury Department; and the York County, Maine, half-dollar, transferred from the Treasury Department.

From the Treasury Department there came also examples of the United States bronze, nickel, and silver coins struck at the Denver, Philadelphia, and San Francisco mints in 1936. The American Numismatic Association deposited in its loan collection a series of 75 foreign coins struck for circulation in the following countries: Albania, Austria, Belgium, Brazil, Canada, Central America, Cuba, Cyprus, Danzig, Germany, Hungary, India, Mauritius, Morocco, New Guinea, New Zealand, Panama, Peru, Siam, Southern Rhodesia, Sweden, Tunis, and Turkey.

The philatelic series was increased by the transfer from the Post Office Department of 1,359 specimens of current foreign postage

stamps and from the Bureau of Engraving and Printing of 8 specimens of current United States postage stamps.

INSTALLATION AND PRESERVATION OF COLLECTIONS

An important achievement during the year in connection with the exhibition series was the standardization of the exhibition cases in the halls of history. The historical collections are now shown in the following types of cases: (1) Small Kensington; (2) large Kensington; (3) deep wall cases; (4) shallow wall cases; (5) wide floor cases; (6) narrow floor cases; (7) slope-top floor cases; (8) numismatic wall cases; (9) numismatic floor cases.

Through the acquisition of six standard wall-case units it was possible to install in a suitable manner a series of costumes and costume accessories on the north side of the hall containing the costumes of the mistresses of the White House. Two shallow wall units were at the same time devoted to the exhibition of a collection of early American jewelry at the east end of this hall.

The services of seven W. P. A. workers were available during almost the entire fiscal year. Training and supervising these employees retarded the scientific work of the division to some extent during the early period of their employment, but the work accomplished later by them allowed the performance of tasks of great importance during the coming year. The arrangement of both the study and exhibition series was greatly improved by this assistance. Special progress in this connection was made with the work of cleaning and classifying the small-arms collection. As the result of this accomplishment and the acquisition of the standard wall-case units it was possible to undertake a complete reinstallation of the northeast court in which the small-arms collection is shown. This reinstallation includes the display of the sword collection in wall units around the entire length of the walls of this court.

One of the major operations accomplished by the regular staff was the installation of the Copp collection of domestic materials on the west gallery of the Arts and Industries Building. This collection, which was presented to the National Museum by John Brenton Copp, of Connecticut, consists of miscellaneous domestic materials of exceptional historical importance and comprises female and male costume materials and accessories of many kinds—chinaware, glassware, pewter ware, and household textiles, including a large number of quilts, sheets, counterpanes, pillow and bolster slips, carpets, curtains, dress goods, and embroideries. The table textiles include cloths, covers, and napkins, and there are also miscellaneous household materials such as boxes, baskets, brushes, candlesticks, conch-

shell, ladle, microscope, mortar and pestles, pillion, portmanteau, sconces, mirror, sun-dial, warming pan, panes of glass, cards, pens, ruler, and slates.

Another important task performed was the partial reinstallation of the national numismatic collection. The numismatic hall is divided into an eastern and a western section by a central north and south aisle. The wall cases on the east side of the hall contain coins of the United States, Mexico, and Central and South America, and the floor cases contain ancient Greek and Roman coins. The wall cases on the west side contain coins of the various countries of Europe arranged approximately in alphabetical order from Albania to Switzerland. The collection of Asiatic and African coins is to be installed in two floor cases in the southwest corner of the hall; two hexagonal cases projecting out from the west wall now contain oriental coins. A row of seven floor cases in the center contain local and national United States medals. A special collection of coins of foreign countries, struck since the period of the World War and lent to the National Museum by the American Numismatic Association, is shown in two floor cases in the northwest part of the hall.

INVESTIGATION AND RESEARCH

Much research work on the study and exhibition series was accomplished by members of the staff. The historical materials were studied by outside investigators in a number of instances. Of special importance was the continuance of the work begun last year by W. P. A. investigators in connection with the domestic group of the historical collections.

Seventy-one lots of material were received for identification by mail.

DISTRIBUTION AND EXCHANGE OF SPECIMENS

During the year 8 specimens here on loan were returned to the owners, and 146 specimens or lots of material were loaned for study use.

NUMBER OF SPECIMENS UNDER DIVISION

Art.....	4, 672
Costume	4, 223
Domestic.....	10, 702
Military	27, 592
Naval.....	2, 581
Narrative.....	2, 254
Numismatic	46, 791
Philatelic	400, 484
Total	499, 299

ACCESSIONS DURING THE FISCAL YEAR 1936-37

(EXCEPT WHEN OTHERWISE INDICATED THE SPECIMENS WERE PRESENTED, OR WERE TRANSFERRED IN ACCORDANCE WITH LAW BY BUREAUS OF THE GOVERNMENT)

- ABBEHUSEN, GUSTAV, Long Island City, N. Y.: Epaulet worn during War of the Revolution by Col. Benjamin Eyre, 2 cards inviting him to dine with General Washington, and a sketch of the coat of arms of the Eyre family (142854).
- ABBOT, Dr. C. G., Washington, D. C.: 2 fragments of the Wright Brothers' airplane of 1903 (142502, deposit).
- ABBOTT, C. E., Chicago, Ill.: 4 insects, representing 4 species (140724).
- ABBOTT, GERTRUDE, Philadelphia, Pa.: 12 plants from Maryland (141126); collection of woven fabrics and basketry from Madagascar, chased copper and silver objects from Kashmir, India, and miscellaneous objects from Samaná, Dominican Republic, all collected by the late Dr. W. L. Abbott (143175).
- ABBOTT, W. C., Capetown, South Africa: Stone artifacts and potsherds from three localities in South Africa (140811).
- ABERCROMBIE & FITCH Co., New York City: A square kite used in modern deep-sea fishing to elevate the trolling line (142292).
- ABRAHAM, STUART, Alexandria, Va.: A mole snake collected by Windbord Dornin in Alexandria (140807). (See also under Dr. G. S. Myers.)
- ACADEMY OF NATURAL SCIENCES, Philadelphia, Pa.: 2 plants (140314, exchange); 5 rough skeletons of Sumatran birds (141292, exchange); 17 insects (141603, exchange); 1 bird skeleton (143201, exchange); 198 ferns collected in Mexico by F. W. Pennell (144041, exchange); (through Dr. H. W. Fowler) 19 fishes from various localities (143085, exchange); (through Morgan Hebard) 2 insects (140201, exchange).
- ACKERT, Prof. J. E., Manhattan, Kans.: 2 type specimens of nematodes (139775); 1 trematode (139892).
- ADAMS, E. G., Atlantic Beach, Fla.: Silk flag presented to John S. Holt of the Mississippi Rifles by women of Woodville, Miss., a shirt worn by him during the War with Mexico, and a fragment of embroidered silk cloth (141085).
- ADAMS, Capt. E. H., Durham, N. H.: 2 rigged sailing models—one a Piscataqua River packet and one a gundalow of 1886 (141179).
- ADAMS, R. L., Sheffield, Ala.: 2 models of ships, U. S. S. *Texas* and U. S. S. *Preston* (142772).
- AELLEN, Prof. PAUL, Basel, Switzerland: 260 plants from Corsica, Syria, and Switzerland (142815, exchange).
- AGACINO, MORALES. (See under Museo Nacional de Ciencias Naturales.)
- AGELASDO, A. M., Washington, D. C.: Back scratcher of carved ivory and a book cover of ivory, stone, and silver mosaic, bought in India about 1875 by the lender's father (143832, loan).
- AGERSBOG, H. P. K., Richmond, Va.: 14 salamanders and a trap-door spider from Tablerock State Park, Pickens, S. C. (142044). (See also under U. S. Department of the Interior, National Park Service.)
- AGRICULTURA, DIRECCION DE, Depto. de Sanidad Vegetal de Consultas, San Jacinto, D. F., Mexico: (Through Ing. J. de J. Urquizo) 5 pocket-gopher skins with skulls from Mexico (142617).
- AGRICULTURE, DEPARTMENT OF, Entomological Branch, Ottawa, Canada: 1 moth (142079, exchange); 11 weevils, representing 3 species, one of which is new to the collection (142106, exchange); (through Herbert Groh) 2 plants (142817, exchange).
- AGRICULTURE, DEPARTMENT OF, Pretoria, South Africa: 1 plant from South Africa (142661, exchange).
- AGRICULTURE, U. S. DEPARTMENT OF: *Bureau of Biological Survey*: 17 miscellaneous exotic reptiles and amphibians (139975); 3 skeletons of birds (white-necked raven, Harris's hawk, and red-tailed hawk) (141140, 143556); 1 yellow rail (141756); 5 small mammals from Chile sent to Biological Survey in 1923 (142371); 6 Argentine tinamous (143086); 855 mammals entered in Museum catalogs between July 1, 1936, and June 30, 1937, and not otherwise accessioned (144251); 5 bird skeletons received during

the year and not otherwise accessioned (144276); (through Clarence Cottam) 29 amphipods, 2 mollusks, and 2 lots of parasitic worms (141632); 10 amphipods and 37 isopods (143466); (through Neil Hotchkiss) 5 ferns from South Dakota (142497); (through W. L. McAtee) 5 plants from Eastern United States (141216); (through A. L. Nelson) 2 copepods from goldfish (141224).

Bureau of Entomology and Plant Quarantine: 16 mollusks and 43 isopods from Mexico, Central and South America, and West Indies (139244, 140285, 140892); 178 isopods, 29 mollusks, 8 amphipods, 1 crab, 5 frogs, 1 lot of marine algae, and 200 phylloids (139553, 139882, 140072, 140569, 140872, 141154, 141324, 141711, 142602); 1 mollusk from Guatemala, 9 isopods, and 20 copepods (142303); 1 mollusk from Turkey and 3 isopods (142510); 12 land shells from Florida (142626); 2 mollusks from Panama and Mexico, 6 isopods, and 2 amphipods (142824); 5 isopods, 21 mollusks, 1 blindsnake from Texas (143674); 60,166 miscellaneous insects retained from material received for identification during the year (144235).

Office of Experiment Stations: (Through Charles Pennington, Mayaguez, Puerto Rico) 1 plant from Puerto Rico (139916); (through Dr. H. L. Van Volkenberg) 59 land shells from Puerto Rico (143195).

Forest Service: (Through Dr. W. A. Dayton) 2 ferns from Southeastern United States (139949); 3 plants from Long Island (140706); (through W. R. Mattoon) 1 plant from Arkansas (140737).

Bureau of Plant Industry: 5 specimens of flax, showing stages from straw to cleaned fiber, grown in Willamette Valley, Oreg., under supervision of Dr. B. B. Robinson (144169); 54 plants from Death Valley, Calif., collected by M. French Gilman (144201); (through Dr. S. F. Blake) 66 plants (142873); 1 plant from Wyoming (144141); one wood specimen of the James River hybrid walnut, collected by Dr. F. V. Coville in Charles City County, Va. (144241); 9 plants from North Dakota (144267); (through Dr. M. F. Buell) 79 plants from North Carolina (140536, 140594); (through

Mrs. Agnes Chase) 6,616 mounted grasses from various sources (140036, 144237); (through G. N. Collins) 23 plants from Mexico (141713); (through Dr. F. V. Coville) 4 plants from Death Valley, Calif. (140242); 8 plants from North Carolina (141754); 1 plant from California (142204); (through C. O. Erlanson) 25 mosses from United States (141106); 12 plants from Manchuria (142061); 135 plants collected in Brazil by Archer and Gehrt (142097); 16 plants collected in Brazil by Hoehne and Gehrt (142211); 202 plants collected in Brazil by W. A. Archer (142212); 225 plants collected in Argentina and Paraguay by W. A. Archer (142835); 1 wood sample of the New Zealand "whau" tree (144240); (through Dr. T. H. Kearney) 2,293 plants from Arizona (139950, 140032, 141378, 141382, 142205, 143865, 143868); 36 plants from Arizona and Lower California (141613); 35 plants, collected in Arizona by J. Whitehead (142215); 8 plants from South America (143899); (through B. Y. Morrison) 20 photographs of Asiatic plants (142818); 209 grasses from India and Afghanistan, collected by Dr. Walter Koelz (143068); (through R. H. Peebles) 1 cactus from Arizona (142216); (through P. L. Ricker) 21 plants, mostly from United States (141626); 2 plants from California (144057); 2 plants from Texas (144160); (through J. A. Stevenson) 365 mosses and liverworts mainly from North America (140066); 1 plant from Colombia (142922); (through J. R. Swallen) 6 plants from Colorado (141107); 1 plant from Mexico (141594); 1 plant from Tennessee (141614); 10 plants from Uruguay (142820).

AGUAYO, Dr. C. G., Habana, Cuba: 3 holotypes of Cuban marine gastropods, described by Aguayo and Rehder (136747).

AHERN, Col. and Mrs. G. P., Washington, D. C.: Crow Indian cradleboard and toy snake and Sioux Indian and Moro weapons (142658).

AINSLIE, C. N., Sioux City, Ia.: 100 Microlepidoptera from Iowa (140911).

ALASKA, UNIVERSITY OF, College, Alaska: Skeletal material collected by the Interior Department-Alaska College Expedition to St. Lawrence Island, 1934-35 (140291).

- ALDEN, C. H., Cornelia, Ga.: 5 isopods (143760). (See also under Georgia State Entomologist).
- ALICATA, Dr. J. E., Honolulu, Hawaii: 363 mollusks from Hawaii (140554, 140729). (See also under University of Hawaii.)
- ALLARD, H. A., Washington, D. C.: 2,853 plants, mostly from Virginia (141598); about 3,000 plants, mainly from Bull Run Mountains, Va. (143855).
- ALLEN, Dr. ENA A., Washington, D. C.: 131 plants from California (139881).
- ALLEN, E. R., Silver Springs, Fla.: 1 Florida terrapin from Oklawaha, Fla. (139824); 1 turtle from Florida (139941); 1 fish, "smooth puffer", collected off Yankeetown, Fla., by Edward Crumpton (140916); 1 turtle from Withlocochee River (142328); 3 shrimps (142660); 1 deformed turtle from Florida (144229).
- ALLEN, Mrs. LAURA M. (See under Mrs. E. G. Foster.)
- AMERICAN FEDERATION OF ARTS, Washington, D. C.: Special traveling exhibit of 50 "Medieval Illuminated Manuscripts" collected by Otto F. Ege (144166).
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City: 3 insects (3 species), all paratypes (140027, exchange); 1 spider (140116, exchange); 1 cast of a fossil snake skeleton (140185, exchange); 2 spiders (2 species) from China (140278, exchange); 5 beetles from Texas (140745); 1 fly, a paratype (141180, exchange); 8 bees (8 species), all named (142636); (through A. J. Mutchler) 3 beetles (140925).
- AMERICAN NATIONAL RED CROSS, Washington, D. C.: World War aviator's knitted flying helmet (143738).
- AMERICAN NUMISMATIC ASSOCIATION, New York City: (Through Moritz Wormser) Coins of Albania, Austria, Belgium, Brazil, Canada, Cuba, Cyprus, Danzig, Germany, Hungary, India, Mauritius, Morocco, New Zealand, Panama, Peru, Siam, Southern Rhodesia, Sweden, Tunis, and Turkey, struck 1934-36 (140579, loan); coins of Asia, Africa, Europe, Central America, New Guinea, and the Philippine Islands, struck 1934-37 (144063, loan).
- AMERICAN PACIFIC WHALING Co., Seattle, Wash.: (Through Marc Lagen) 4 whale embryos (1 sulphur bottom, 2 humpbacks, and 1 finback) (139979).
- AMERICAN PHARMACEUTICAL ASSOCIATION, Inc., Washington, D. C.: Official Copy 1023 of the Pharmaceutical Recipe Book, ed. 2, for Museum's collection of medical standards of the United States (142307).
- AMERICAN SUGAR REFINING Co., New York City: 1 specimen each of raw sugar, granulated sugar, powdered sugar, and sugar in cubes for materia medica collection (143450).
- AMORTEGUI, Dr. B. G., Bogota, Colombia: 75 miscellaneous insects, including one or more new species, 1 snake, and eggs of an amphibian from Colombia (135912); 2 crabs and 1 vial of millipeds (140851).
- AMSLER, O. L., Decatur, Ga.: World War insignia of Eighty-second Division, American Expeditionary Forces (140750).
- ANGELO, STEPHEN, Moss Point, Miss.: Half-model and take-off board of a tug, designed and built by donor in 1918 (144180).
- ARCHER, W. A., Washington, D. C.: 4 land snails from San Lorenzo, Paraguay (143428).
- ARKANSAS HONORARY CENTENNIAL CELEBRATION COMMISSION, Little Rock, Ark.: Arkansas Centennial half-dollar, 1936 (142789).
- ARKANSAS STATE TEACHERS' COLLEGE, Conway, Ark.: (Through Flora A. Haas) 149 plants from Arkansas (140861).
- ARMISTEAD, W. J., Tampa, Fla.: 74 fishes collected in 1934 by donor from vicinity of Tampa Bay (142018).
- ARMITAGE, JOHN, Alexandria, Va.: 4 arrows and a canoe paddle from Caripuna Indians of Rio Madeira, Matto Grosso, Brazil, collected in 1912 (140980).
- ARNOLD, J. P., Hamburg, Germany: 3 fishes (140716).
- ARNOW, I. F., St. Marys, Ga.: 1 freshwater shrimp (136573); 2 shrimps from Georgia (140988).
- ARSÈNE, Rev. Brother G., Santa Fe, N. Mex.: 253 plants from New Mexico (141147).
- ASCHEMEIER, C. R., Washington, D. C.: 1,129 fishes, 6 crabs, 4 shrimps, and 6 parasitic crustaceans collected at Lake Ovington, near Bay Ridge, Md. (140117); 1 fish collected by donor at Sandy Hook, Md., near Harpers Ferry (140236); 1 fish collected at Bay Ridge, Md., by W. E. Keeser (140237); 19 fishes and 1 salamander collected at Sandy Hook, Md. (140927); 5 fishes collected at Bay

- Ridge, Md., and 4 pairs of otoliths from heads of fishes collected at same place (140950); 5 fishes collected at Sandy Hood, Md. (140951); 4 fishes and 2 pairs of otoliths from Bay Ridge, Md. (141611); 1 brown thrasher (144250).
- ASHBY, W. H., Indianapolis, Ind.: 53 pictorial photographs for exhibition during September 1936 (140557, loan); 8 pictorial prints, "The Bonnet", "Mary Jo", "The Yawn", "Lone Pedestrian", "Modern Madonnas #1", "Modern Madonnas #2", "Numa", and "In Oldenburg" (141133).
- ASSOCIATED TELEPHONE CAMERA CLUBS, New York City: (Through F. Liuni) 43 pictorial photographs, traveling exhibit, shown during March 1937 (142888, loan).
- ASSOCIATION FOR STAMP EXHIBITIONS, New York City: Silver medal of Third International Philatelic Exhibition, New York, 1936 (141166).
- ASTLE, C. C., Rising Sun, Md.: (Through J. E. Metzger, University of Maryland) 1 clay-iron stone concretion from Northeast River, Md. (144252).
- AUSTRALIAN MUSEUM, Sydney, New South Wales: 12 Cambrian fossils from Australia (142607, exchange).
- AVINOFF, Dr. A. (See under Carnegie Museum.)
- AYERS, CLYDE, Fort Humphreys, D. C.: Insignia of Thirty-third Infantry and the First Coast Artillery, U. S. Army (142306).
- BACON SCHOLARSHIP. (See under Walter Rathbone Bacon Scholarship.)
- BAER, Mrs. MARY A. (See under Lucie L. Bowie.)
- BAGROWSKI, B. P., Milwaukee, Wis.: One specimen of grunerite from Michigamme, Mich. (142194, exchange).
- BAILEY, F. S., Ontario, Oreg.: 7 mollusks from Isle Royale, Lake Superior (140963).
- BAILEY, Prof. J. W. (See under University of Richmond.)
- BAILEY, Prof. L. H., Ithaca, N. Y.: 15 plants (137946, exchange); 2 plants from Lower California (140941, exchange); 18 plants from Haiti and Jamaica (143754, exchange); 39 plants from Hispaniola (143856, exchange).
- BAKER, Dr. F. H., Richmond, Victoria: 30 marine mollusks (2 species) from Australia (143877, exchange).
- BALL, Dr. C. E., Washington, D. C.: 10 plants (140738, exchange).
- BALLIET, LETSON, Tonopah, Nev.: 1 sand-cricket (141238).
- BALTIMORE & OHIO RAILROAD Co., Baltimore, Md.: Operating scale model of the Baltimore & Ohio Royal Blue Train (143419).
- BANDY, M. C., Llallagua, Bolivia: Collection of studied rocks and stone implements and fragments from Easter Island, South Pacific (140038); 1 specimen of metavauxite from Llallagua (140516).
- BANN, JAMES, Cincinnati, Ohio: 1 print from a wood engraving of Abraham Lincoln engraved by James Bann after a photograph by Alex Hesler taken before 1860 (141340).
- BARBER, H. G. (See under Prof. C. J. Drake.)
- BARBER, H. S., Washington, D. C.: 1 fish (141112); 1 star-nosed mole from Oakdale, Md. (144025).
- BARBOUR, Dr. THOMAS, Cambridge, Mass.: 4 bird skins from Scotland (141661).
- BARCLAY, G. C., Newport News, Va.: 2 gastropod shells from the Miocene (Yorktown formation) near Yorktown, Va. (141727); 1 specimen of gold quartz from Caldwell County, N. C. (142077).
- BARKER, Dr. A. W., Moyland, Pa.: 1 lithograph, "Midsummer Moon" (142288).
- BARNARD, Dr. K. H. (See under South African Museum.)
- BARNES, R. M., Lacon, Ill.: 7 Lepidoptera (138630).
- BARRET, Dr. H. P., Charlotte, N. C.: 15 scepter quartz and amethyst crystals, 1 garnet and 1 gummite and uranophane from North Carolina (140957); 5 chalcidonic replacements of corals from Tampa Bay, Fla. (143415).
- BARTLETT, Capt. R. A., New York City: 12 plankton samples, 7 bottom samples, 6 dredging samples, 8 mammals stomachs, 17 bird stomachs, 3 shrimps, 12 amphipods, 1 anemone, 5 marine annelids, 1 ascidian, 1 pycnogonid, plants, echinoderms, and mollusks, collected on the northeast coast of Greenland, 1936 (139753).
- BARTLEY, FLOYD, Circleville, Ohio: 1 plant from Ohio (142846).
- BARTSCH, Dr. PAUL, Washington, D. C.: 1 plant (140230); 333 fishes from Fort Hunt, Va., (141184); 2 lampreys from Suitland Bog, near Suitland, Md. (141186); 49 fishes, 28 shells, 12 fresh-water Bryozoa, 1 salamander, and 3 insects, from Widewater, C. & O. Canal (141188); 8 shells from Plumpoint, Md. (142010). (See also under Smithsonian Institution, Smithsonian Roebling exploring expedition.)

- BARTSCH, DR. PAUL, and Dr. J. P. E. MORRISON, Washington, D. C.: 161 fishes from Shenandoah River just above power dam at Millville, W. Va. (140541); 1 large-mouth black bass found in an experimental cage in Roaches Run, Va. (140712). (See also under Smithsonian Institution, National Museum.)
- BASIAS, F. E., Manila, Philippine Islands: 2 mosquitoes (140833).
- BASOM, R. L., Seattle, Wash.: 2 cichlid fishes (140600).
- BASS BIOLOGICAL LABORATORY, Englewood, Fla.: 100 amphipods, 3 isopods, 1 crayfish, 8 shrimps, 5 hermit crabs, 40 crabs, 6 stomatopods (138354).
- BASSLER, Dr. R. S. (See under Smithsonian Institution, National Museum.)
- BATTLE, Mrs. S. W., Asheville, N. C.: Woven and imbricated grass bag from the Nez Perce and a Chilkat medicine man's painted basketry hat and woven blanket (143617).
- BAUSCH & LOMB OPTICAL Co., Rochester, N. Y.: 13 specimens and 2 photostatic prints of spectacles, period of 1865 to 1929 (142040); 15 historical spectacles dating from 1895 to 1927 (142223); 18 specimens and 2 photostatic prints of spectacles, period of 1874 to 1933 (142504).
- BAYLIFF, Prof. W. H., Annapolis, Md.: 12 brook lampreys from small brook in Anne Arundel County, Md. (143871).
- BAYLY, CHILDREN OF ALEXANDER SHEPARD. (See under Mrs. Delia B. Orem.)
- BEATTY, H. A., Christianstad, St. Croix, Virgin Islands: 120 crabs, 7 hermit crabs, 14 shrimps, 213 mollusks, 1 lot of barnacles (133781, 138358, 139901); 20 bats from St. Croix (141169, 141979); 30 insects (141258); 27 crabs, 75 amphipods, 12 shrimps, 80 isopods, 1 hippa, 2 porcellanids, 1 stomatopod, and 2 bats from St. Croix (142360).
- BECKWITH, C. S. (See under New Jersey Agricultural Experiment Station.)
- BEDFORD, R., Kyancutta, South Australia: 1 specimen of Kappakoola, Australia, meteorite (140595). (See also under Kyancutta Museum.)
- BEEBE, Dr. WILLIAM. (See under New York Zoological Society.)
- BEHRE, Dr. E. H., Baton Rouge, La.: 4 crabs, 1 sponge, 2 marine annelids, 1 stomatopod, 1 sagitta, from Grand Isle, La. (140322).
- BELL, Dr. A. W., Los Angeles, Calif.: 10 fresh-water oligochaetes, paratypes of 3 new species (139995).
- BENEDICT, J. E., Jr., Washington, D. C.: 7 plants from United States (140880, 141607, 141608; exchange).
- BENHAM, Dr. W. B. (See under University of Otago.)
- BENNETT, Mrs. G. S., Santa Marta, Colombia: 150 ferns from Colombia (141275).
- BENSON, LYMAN, Bakersfield, Calif.: 1 fern from California (142318).
- BEQUAERT, Dr. JOSEPH, Boston, Mass.: 6 beetles from Colombia (136951).
- BERDANIER, P. F., Sr., Jackson Heights, N. Y.: 2 etchings ("Wings Above the Storm" and "Pegasus") and 1 dry-point ("Icarus Triumphant") (144096).
- BERMUDEZ, Dr. P. J., Habana, Cuba: 115 shells from El Queque, Vinalez, Pinar del Rio, Cuba (141284).
- BERRY, Dr. C. T., Baltimore, Md.: Type specimen of Foraminifera from the Miocene of Venezuela (143185).
- BERTHA MINERAL Co., Austinville, Va.: (Through W. H. Callahan) 20 specimens of *Archaeocyathus* limestone from mines at Austinville (142195).
- BERTHIER, G. V., Caracas, Venezuela: 29 insects (140059, 143565).
- BERTRAM, ARTHUR, Jr., Augusta, Ga.: Australian boomerang from La Perouse, New South Wales, made by natives from a mangrove root (140275).
- BERTRAND, Dr. HENRI, Paris, France: Small collection of beetle larvae, representing 3 species all new to the Museum collection (141131).
- BERWIND-WHITE COAL MINING Co., New York City: (Through C. E. Dunlap) Bronze medal commemorating 50th anniversary of incorporation of Berwind-White Coal Mining Co. (142027).
- BETSCH, CHRIS, Russian Mission, Alaska: Fragmentary skull (141240).
- BIBB, Dr. C. R., Okeechobee, Fla.: Upper cheek tooth of a horse from Pleistocene of Florida (143872).
- BIRKHOLOZ, CLIFFORD, Battle Creek, Mich.: 7 beetles (7 species) (140844).
- BISELL, Mrs. ELEANOR W., Mrs. CAROLINE W. SHANNON and Mrs. ELIZABETH W. HARMAN, Washington, D. C.: (Through T. J. Shannon) Miniature wag-on-the-wall clock, brass and wood works, probably German, early 19th century (142849).
- BISHOP, Dr. S. C., Rochester, N. Y.: 2 salamanders from Oregon (142848).
- BISHOP MUSEUM, BERNICE P., Honolulu, Hawaii: 77 plants from Pacific Islands (142583, exchange); (through C. H. Edmondson) 3 shells from Kaneohe Bay, Oahu, Hawaii (144019).

- BLACKMER, R. P., and Dr. T. H. YOUNG,** Nashville, Tenn.: Fragments of earthenware salt pans used as grave slabs, found on A. O. Kleeman farm near Nashville (132094).
- BLACKWELDER, Dr. R. E.,** Stanford University, Calif.: 1 skin and trunk skeleton and 1 complete skeleton of St. Croix honeysucker (142206). (See also under Walter Rathbone Bacon Scholarship.)
- BLAIR, Dr. A. P.,** Tulsa, Okla.: 7 flatworms and 2 spiders (138245).
- BLAISDELL, Dr. F. E., Sr.,** San Francisco, Calif.: 19 beetles, all named, representing 10 species, 5 of which are represented by 9 paratypes (141130, exchange).
- BLAKE, Mrs. DORIS H.,** Arlington, Va.: 1 beetle (141111).
- BLAKE, Dr. S. F.,** Arlington, Va.: 1 plant from Virginia (140610, exchange). (See also under U. S. Department of Agriculture, Bureau of Plant Industry.)
- BLEW, E. W., Whittier, Calif.:** 46 pictorial photographs, exhibited during January 1937 (142296, loan).
- BLIGH, ROY,** Fishers Hill, Va.: 1 ruffed grouse (142197).
- BLISS, Col. E. G.,** Washington, D. C. (See under Mrs. Adolph Knopf.)
- BOHANNON, C. T. R.,** Washington, D. C.: 3 trilobites, 3 corals, and 1 brachiopod from Permian of New Mexico (142289).
- BOLIN, Dr. R. L.,** Pacific Grove, Calif.: 2 cottid fishes from California (139788). (See also under Hopkins Marine Station.)
- BOND, Mrs. P. S.,** Washington, D. C.: (Through Betty B. Nicolson) Silk plaque with symbolic pictorial embroidery, Japanese (144245).
- BOOS, Mrs. MARGARET F.** (See under University of Denver.)
- BORIA, GEORGES,** Hollywood, Calif.: Silhouettes and silhouette material, broom-straw pictures and colored straw (142287).
- BOSCHMA, Dr. H.** (See under Rijksmuseum van Natuurlijka Historie.)
- BOTANIC GARDENS,** Singapore, Straits Settlement: 105 mosses from Mount Kinabalu, Borneo (139954, exchange).
- BOTANICAL GARDEN,** Sydney, New South Wales: 200 plants from Australia (143547, exchange).
- BOTANISCH MUSEUM EN HERBARIUM,** Utrecht, Netherlands: 60 plants from Surinam (141781, exchange).
- BOTANISCHES MUSEUM,** Berlin-Dahlem, Germany: 1 plant from Guatemala (140878); 815 plants (141233); 315 plants from Colombia and Chile (142350); 18 photographs of type specimens of plants (143187). All exchange.
- BOTANISCHES MUSEUM,** München, Germany: 77 plants from Brazil (142257, exchange).
- BOWEN, J. D.,** Kansas City, Mo.: 1 compound ascidian from Palm Beach, Fla. (142890).
- BOWEN, W. H.,** Biloxi, Miss.: 1 half-model of a trawling and fishing motor boat of the donor's design from which 5 boats were built, 1933 to 1937 (144176).
- BOWIE, LUCIE L.,** Washington, D. C.: (Through Mrs. Mary A. Baer) Bannerstone and stone-ax fragment from near Brookville, Md.; war club and rattle, presumably from Minnesota, and silver buckle from Texas or New Mexico (140292); 1 antler of eastern elk from Brookville, Md. (142008).
- BOWMAN, A. M.,** Moorehead, Minn.: About 20 shells from "a lift station pit 20 feet deep on the banks of the Red River" (138292).
- BOWMAN, Capt. F. O.** (See under U. S. Department of War.)
- Box, Dr. H. E.,** Trinidad, St. Lucia, British West Indies: 65 larvae, 1 vial of first-stage larvae, 7 pupae, and 24 adult Microlepidoptera (13 species) and 10 larvae of Hymenoptera (140820).
- BRACELIN, Mrs. H. P.** (See under Mrs. Ynes Mexia.)
- BRADFIELD, R. D.,** Northmead, Transvaal: 3 bird skins from South Africa (140757).
- BRADLEY, Dr. J. C.,** Ithaca, N. Y.: 3 flies (3 species), all paratypes (139962, exchange).
- BRADLEY, Dr. W. H.,** Washington, D. C.: 1 Devonian starfish from Upper Devonian (Nunda) sandstone of south-central New York (143811).
- BRALEY, F. O.,** Greenwood, Miss.: (Through R. L. Braley) 13 old gun rifling broaches and 4 hand-made gun sights (142262).
- BRALEY, R. L.** (See under F. O. Braley.)
- BRASHER, HENRY,** Biloxi, Miss.: 3 half-models of Biloxi, Miss., vessels (144184).

- BRECKINRIDGE, Mrs. HENRY**, New York City: Collection of books, photographs, and clippings relative to Alberto Santos-Dumont, whose airship was piloted by the donor, then Miss Aida de Acosta, June 23, 1903 (142514).
- BRENNER, Mrs. JULIA**, San Francisco, Calif.: 60 study samples of American, European, and Oriental silk, cotton, and wool textiles, dating from 16th to 20th century, collected by Ruth M. Brenner (144207).
- BRIDWELL, J. C.**, Washington, D. C.: 9 lots of coleopterous larvae, pupae, and adults (139947); decorated china cover for toilet box, Staffordshire, England, ware, scene representing a zoological exhibit with bear and bear pit in foreground (142673).
- BRIGHTMAN YOUNG UNIVERSITY**, Provo, Utah: (Through Dr. V. M. Tanner) 34 weevils (7 named species, one represented by a paratype) (140334, exchange).
- BRINEGAR, T. P.**, Tucson, Ariz.: 3 specimens of silver ore from Alamos Mining District, Sonora, Mexico (141210).
- BRITISH GOVERNMENT:**
British Museum (Natural History), London, England: 3 pieces of silica glass from Libyan Desert (140419, exchange); 25 ferns from St. Kitts (141385, 142871; exchange); 100 photographs of type specimens of plants in European herbaria (142868, 143649; exchange); (through Dr. Ch. Ferriere) 10 insects (142665); (through Helen M. Muir-Wood) 187 fossil brachiopods from the Cretaceous and Jurassic of England and Africa (143143, exchange); (through Dr. G. E. J. Nixon) 10 Hymenoptera (4 species represented by 2 paratypes each and one species by 2 specimens) (141770, exchange); (through W. H. T. Tams) 2 moths (141724), exchange); (through A. K. Totten) 12 alcyonarians (139101, exchange); (through D. S. Wilkinson) 15 Hymenoptera, including 3 cotypes (141759, exchange).
- Imperial Institute of Entomology*, London, England: 62 Hymenoptera representing 8 species of *Apanteles*, 2 of them by cotypes (140115, exchange).
- Royal Botanic Gardens*, Kew, Surrey, England: 299 plants, mostly from Mexico (139948, 141336, 141753); 129 plants from Queensland (139953); 2 fragmentary plants from tropical America (140841). All exchange.
- BRONAUGH, C. B.**, Afton, Okla.: A spine of *Ctenocanthus* from the Mississippian of Craig County, Okla. (140939); 2 fossil leaves of Lower Eocene age from Oklahoma (141730).
- BROOKS, Dr. S. T.**, Pittsburgh, Pa.: 14 shells from Newfoundland (paratypes) (141299). (See also under Carnegie Museum.)
- BROTHERHOOD OF LOCOMOTIVE ENGINEERS**, Capital Division 160, Washington, D. C.: (Through W. C. Jasper) A large hand-operated model of a Walschert's locomotive valve gear (144243).
- BROWER, A. E.**, Bar Harbor, Maine: 36 insects (4 species, one of which is represented by holotype, allotype, and 5 paratypes) (142557, exchange); 140 miscellaneous insects (110 Lepidoptera, 29 Hymenoptera, and 1 Coleoptera) (143464, exchange).
- BROWN Co.**, Portland, Maine: 92 specimens and 5 photographs showing stages in manufacture of pure wood-pulp alpha cellulose and its use in manufactured products (142308).
- BROWNING, MARY E.**, Arlington, Va.: 42 pictorial photographs shown during December 1936 (141760, loan).
- BRUNER, Dr. S. C.**, Santiago de las Vegas, Cuba: 2 bat skins with skulls from Santiago de las Vegas (140606); 6 insects (140959).
- BRYANT, Mrs. ALYS**, Washington, D. C.: A flyer's helmet worn by the donor's husband, John Bryant, a prominent pioneer aviator, 1911-13 (142038).
- BRYANT, OWEN**, Tucson, Ariz.: Collection of miscellaneous insects from northern Canada and Alaska (85589).
- BRYARLY, KATHERINE LEE**: (Through Mrs. B. B. Spencer) Wool wheel, 6-arm clock reel, a pair of wool cards from the donor's ancestral home in Winchester, Va., and a 3-spout brass lucerna (144081).
- BUCHANAN, Mrs. EUGENIA M.**, Washington, D. C.: A physician's hand scale of the 18th century, with wooden carrying case and 12 brass weights (139970).
- BUCKINGHAM, RIPLEY**. (See under Dr. J. P. E. Morrison.)
- BULL, Dr. M. F.** (See under U. S. Department of Agriculture, Bureau of Plant Industry.)

- BUFFALO EVENING NEWS BROADCASTING STATION WBEN, Buffalo, N. Y.:** Ultra high frequency broadcasting transmitter W8xH, designed, constructed, and operated by the staff of WBEN, 1933 to 1936 (140082).
- BUNKER, Col. P. D., Fort Mills, Philippine Islands:** Collection of Philippine Island and marine mollusks and 1 crab (140270).
- BURCH, Prof. P. A., East Radford, Va.:** 55 mollusks from Virginia and 3 caddis-flies (141586).
- BURGWIN, Mrs. J. H. K., Provincetown, Mass.:** Collection of Japanese eggshell porcelain, consisting of 12 cups and 12 saucers, made to order in Japan in the 1890's (143740).
- BURK, ELLEN I., Shabunda, Belgian Congo:** Collection of ethnological objects and a gorilla skull without lower jaw, from the vicinity of Shabunda, District de Maniema, Belgian Congo (132438, collected for the Museum).
- BURKETTE, O. R., Washington, D. C.:** A 4-legged Plymouth Rock chicken (alcoholic) (144256).
- BURNELLI, V. J., Keyport, N. J.:** Model, 1/24 size, of the Remington-Burnelli airliner of 1920; the original wind-tunnel model of the first design to employ an airfoil section fuselage containing cargo at the center of gravity, and propellers installed forward of the leading edge (143817).
- BURNSTINE, ABRAHAM, Washington, D. C.:** Set of carved ivory chessmen in lacquered wooden box, Chinese (143447).
- BURT, Dr. C. E., Winfield, Kans.:** 400 phyllopoeds and 14 fishes from near Winfield (139992); 4 turtles (140731).
- BURT, R. M., Miami, Fla.:** 1 beetle (139991).
- BURTON, Dr. E. M., Charleston, S. C.:** 2 fishes taken off Black Fish Banks, S. C. (127214).
- BURTON, L. C., Cleveland Heights, Ohio:** Vetter direct-reading mil-ammeter (143690).
- BUSHNELL, D. I., Jr., Washington, D. C.:** 1 lot of discoidal shell beads from "Big Mound", which stood in the heart of St. Louis, Mo., until its removal in 1869 (143444, exchange).
- BUTLER, J. E.** (See under E. B. Fetty.)
- BYRD, Dr. E. E., Athens, Ga.:** 5 type specimens of trematodes (142221).
- CABALLERO Y C., Prof. EDUARDO, Mexico, D. F.:** 5 nematodes (143124).
- CAHN, Dr. A. R., Knoxville, Tenn.:** 64 leeches (140042); 1 chigger-infested salamander from Tennessee (140544).
- CALDERON, S., San Salvador, El Salvador:** Lizard from El Salvador (139794).
- CALIFORNIA ACADEMY OF SCIENCES, San Francisco, Calif.:** 330 plants, mostly from California (142202, exchange); 35 bugs (13 species, 6 of which are represented by 9 paratypes) (142863, exchange); two Galapagos rails from the Galapagos Islands (144106).
- CALIFORNIA DEPARTMENT OF AGRICULTURE, Sacramento, Calif.:** (Through H. H. Keifer) 15 larvae and pupae of Lepidoptera (5 species) (141644).
- CALIFORNIA, UNIVERSITY OF; Berkeley, Calif.:** 1 fern (141590, exchange); 125 plants from South America (144233, exchange).
- CALIFORNIA-PACIFIC INTERNATIONAL EXPOSITION, San Diego, Calif.:** (Through U. S. Treasury Department, Director of the Mint) San Diego commemorative half-dollar, struck in 1936 (143148).
- CALLAHAN, W. H.** (See under the Bertha Mineral Co.)
- CALVERT, E. L., San Gabriel, Calif.:** 1 specimen of bakerite from Corkscrew Canyon, near Ryan, Inyo County, Calif. (143155, exchange).
- CALVERT, MARGARET, Bowling Green, Ky.:** A sewed-leather fire bucket that belonged to Isaiah Younglove, resident of Johnstown, N. Y., 1783 to 1843 (140480).
- CAMERA CLUB, New York City:** 60 pictorial prints shown during October 1936 (141124, loan).
- CAMMERER, A. B.** (See under U. S. Department of the Interior, National Park Service.)
- CAMPBELL, GUY, Lexington, Ind.:** 17 rare Devonian fossils, brachiopods, corals, and bryozoans (139968).
- CAMPBELL, Mrs. HERBERT, Washington, D. C.:** 1 specimen of imitation batik, with design from Polynesian tapa cloths, made for sale in Samoa where it was purchased (140753).
- CANAL ZONE EXPERIMENT GARDENS, Summit, Canal Zone:** 8 plants from Canal Zone (143478).
- CANAVAN, Dr. W. P. N., Oklahoma City, Okla.:** 4 lots of helminths (types and paratypes) (140875).
- CANFIELD FUND, Smithsonian Institution:** A collection of copper and lead minerals from Tsumeb, Southwest Africa (137934).
- CAPPS, S. R., Washington, D. C.:** 1 crystal of pyrargyrite from Mint Prospect, Chulitna Station, Alaska Railroad region (143083). (See also under Thomas Padgett.)

- CARDENAS, Dr. MARTIN, La Paz, Bolivia : 1 plant from Bolivia (142538).
- CARDOZO, Dr. H. P. (See under Museu Paulista.)
- CARL, Mrs. AUGUSTA, Washington, D. C. : Pair of knitted stockings and 2 single stockings with name and date knitted in with small glass beads, spun and knit by the donor's mother, Mrs. Amalia Chilian Fischer, in 1853 (143101).
- CARNEGIE INSTITUTION OF WASHINGTON, Washington, D. C. : Replica of a stuccoed vase with lid from Uaxactun, Petén, Guatemala (142821); (through Dr. D. D. Keck) 74 plants from California (141192).
- CARNEGIE MUSEUM, Pittsburgh, Pa. : 484 plants from Utah (138692, 143192, 143775; exchange); (through Dr. S. T. Brooks) 1 crab from Chile taken by W. L. Mellon on the *Vagabondia* (139176); (through Dr. E. H. Graham) 93 plants from Uinta Basin (140215, 140252; exchange); (through Dr. A. Avinoff and Dr. Hugo Kahl) 1 insect (paratype) and slide with genitalia (143087).
- CARR, Dr. H. P. (See under Comision de Malaria de Cuba.)
- CARTER, J. G., Washington, D. C. : A dried scalp and a weasel-skin amulet and descriptive notes bearing on the history of the two objects (140734); pair of beaded moccasins worn by Bird Rattler a Piegan on the Blackfeet Indian Reservation, Mont., at the sun dance camp, July 1, 1926 (142628).
- CARTER, MARY E., Washington, D. C. : Costume of a Blackfeet Indian girl, consisting of dress, headband, moccasins, belt, and necklace with shell pendant (140282).
- CASTER, Dr. K. E., Cincinnati, Ohio : 26 Devonian cephalopods from northwestern Pennsylvania (141707).
- CATES, Mrs. S. M. (See under Mrs. A. J. Warren.)
- CATHOLIC UNIVERSITY OF AMERICA, Washington, D. C. : 75 plants (139956, 142247; exchange).
- CERUTI, ALEXANDER, Millville, Fla. : Half-model of menhaden purse boat designed and built by donor about 1921 (144178).
- CHACE, Dr. F. A., Jr. (See under Harvard University, Museum of Comparative Zoology.)
- CHADWICK, K. R., Washington, D. C. : 50 miscellaneous beetles from Colorado and Maine (140838).
- CHALLEY, C. J., Fargo, N. Dak. : 2 flies (141099).
- CHAMBERLAIN FUND, FRANCES LEA, Smithsonian Institution : 604 Cuban shells (140024); 39 land and marine mollusks (17 species) (140037); 1 red zircon (9.9 carats) (140089); 1 scapolite catseye (140090); 1 fancy colored diamond (1.06 carats) (140092); 7 shells (4 species) (140701); 48 lots (about 10,000 specimens) of mollusks from the Bahamas (140755); 1 green spodumene (141175); 104 lots of mollusks (142258); 99 mollusks (65 species and subspecies) (143208); 48 lots of mollusks (135 specimens) (144189).
- CHAMBERS, F. V., Philadelphia, Pa. : 6 4-by-5 Carbutts aluminum cut film sheaths (143459).
- CHAPIN, Dr. E. A., Washington, D. C. : 2 fishes (140715). (See also under Harriet Jane Graham and Smithsonian Institution, National Museum.)
- CHARLESTON MUSEUM, Charleston, S. C. : (Through G. R. Lunz, Jr.) 1 beetle (140031).
- CHASE, Mrs. AGNES. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- CHASE, V. H., Peoria Heights, Ill. : 190 plants from Central and Western United States (142392).
- CHEKIANG PROVINCIAL FISHERIES EXPERIMENT STATION, Tinghai, Chekiang, China : (Through Dr. S. Y. Lin) 2 dried fishes from a river in Chekiang Province (143833).
- CHEMICAL INDUSTRIES, New York City : 248 specimens representing new chemicals of commerce introduced during 1934-1935 (140272).
- CHEN, S. F., Washington, D. C. : 230 mollusks, 8 insects, and 1 salamander from Rappahannock and Shenandoah Counties, Va. (143752). (See also under Dr. J. P. E. Morrison.)
- CHEN, Dr. T. T., Baltimore, Md. : 16 amphibians from Trinidad (141333).
- CHIEF OF AIR CORPS. (See under U. S. Department of War.)
- CHIFLAKOS, Mrs. JAMES, Kennesaw, Ga. : Incomplete skeleton (with skull and lower jaw) excavated from under house 12 miles from Etowah Mound (141243).
- CHOOA, Dr. LUANG, Bangkok, Siam : 6 isopods and 2 vials of Cladocera from Siam (142233, 143769).
- CIFERRI, E., Pavia, Italy : 1 bird in alcohol (140795).
- CITRUS EXPERIMENT STATION, Riverside, Calif. : (Through H. L. McKenzie) 5 insects (holotype and 4 paratypes) from Bombay, India (143395).

- CLABEN, R., Washington, D. C.: Regina music box, no. 64391, stand, and twelve disk records, and 24 Victor and Columbia phonograph records (144168).
- CLAPP, Mrs. H. M., Washington, D. C.: Collection of Plains Indian material collected by Lt. Col. W. H. Clapp at the Pine Ridge Indian Reservation, S. Dak. (141234).
- CLARK, A. H., Washington, D. C.: 3 mice, 1 shrew, 34 salamanders, and 223 insects (140244).
- CLARK, B. P., Boston, Mass.: 100 butterflies (143848).
- CLARK, Dr. H. C. (See under Gorgas Memorial Laboratory.)
- CLARK, MARTHA L., Chase City, Va.: 150 amphipods, 7 isopods, 15 crab larvae (140700).
- CLARK, MARY B., Washington, D. C.: Ceremonial beaded belt originally presented by Algonkian Indians of Indiana to George Rogers Clark (140232, loan).
- CLARKE, Mrs. E. V., Waukesha, Wis.: Collection consisting of lace shawl, embroidered collar, 2 linen sheets, and sampler (140070); collection of blown and pressed glass, consisting of 1 Stiegel flip glass, 2 Bohemian wine glasses, and 2 Sandwich cup plates (140276).
- CLARKE, J. F. G., Washington, D. C.: 10,000 Lepidoptera from the Pacific Northwest (142076). (See also under Dr. J. A. Comstock.)
- CLEMENT, Brother, Santiago de Cuba, Cuba: 57 ferns from Cuba (140513, 143073).
- CLEMENTS, GABRIELLE DeV., Gloucester, Mass.: 1 etching in color, "The Birches" (142034).
- CLEMSON COLLEGE, Clemson College, S. C.: (Through J. G. Watts) 2 beetles (143663).
- CLENCH, Dr. W. J. (See under Harvard University, Museum of Comparative Zoology.)
- CLOKEY, Dr. I. W., South Pasadena, Calif.: 155 plants from California (142246, exchange); 76 plants from Western United States (142390); 7 plants from Nevada (144009, exchange).
- CLOUD, P. E., Washington, D. C.: Collections of invertebrate fossils from Upper Cretaceous and Lower Tertiary rocks of New Jersey and Delaware (140947). (See also under Smithsonian Institution, National Museum.)
- COATSWORTH, J. W., Chicago, Ill.: Skull, with lower jaw, excavated from mound near Mitchell, S. Dak. (141640).
- COE, E. F., Miami, Fla.: 2 fossil mollusks from Florida (140523).
- COE, Mrs. H. C., Washington, D. C.: 25 needlework samplers (143107).
- COE, R. E., Upper Sandusky, Ohio: 2 photographic prints of the Washington commemorative handkerchiefs, "The Love of Truth, Mark the Boy" and "The Effect of Principle, Behold the Man" (138128).
- COLE BROS.—CLYDE BEATTY CIRCUS, Rochester, Ind.: (Through Zach Terrell) Skin, skull, and leg bones minus one shoulder blade of an African elephant, Jumbo II (142055).
- COLLINS & AIKMAN CORPORATION, New York City.: 20 specimens of upholstery pile fabrics of mohair, rayon, and cotton, and process specimens showing section of cloth with loop and cutting wires, a cutting wire, and a section of double-weave fabric with cutting knife (140007).
- COLLINS, G. N. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- COLLINS, H. B., Jr. (See under National Geographic Society.)
- COLLINS, LEE, Baltimore, Md.: 1 skeleton of a common loon (139945).
- COLLINS, Dr. R. L. (See under the Johns Hopkins University.)
- COLLOM, Mrs. ROSE E., Payson, Ariz.: 139 plants from Arizona (141306, 142526).
- COLOMBIA, MINISTERIO DE AGRICULTURA, Bogota, Colombia: 17 plants from Colombia (137923, exchange).
- COLORADO COLLEGE, Colorado Springs, Colo.: 75 plants from Colorado (143418).
- COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colo.: One alcoholic body of passenger pigeon (142376).
- COLORADO SEED LABORATORY, Fort Collins, Colo.: (Through Anna M. Lute) 1 plant from Colorado (140664).
- COLOMBIA SESQUICENTENNIAL COMMISSION, Columbia, S. C.: (Through U. S. Treasury Department, Director of the Mint) 2 specimens of Columbia Sesquicentennial half-dollar, 1936 (142608).
- COMISION DE MALARIA DE CUBA, Habana, Cuba: (Through Dr. H. P. Carr) 4 ants (140728); 32 mosquitoes from Cuba (140904), 6 insects (142916).
- COMMERCE, U. S. DEPARTMENT OF: Bureau of Fisheries, Washington, D. C.: 36 algae specimens from the United States (143176); 2 fishes from Lake Michigan (143777); (through Dr. P. S. Galtsoff) 5 starfishes from Chesapeake Bay (143572); (through Dr. S. F. Hildebrand) 1 spider (139514);

- (through M. C. James) 4 insects and a small collection of marine invertebrates and 3 shells from Lake Titicaca (139499); (through H. C. Markus) 4 crayfishes from Fairport, Iowa (141218); (through J. C. Pearson) 6 fresh-water shrimps from Florida (142226).
- COMSTOCK, Dr. J. A., Los Angeles, Calif.: 3 Lepidoptera (141207); (through J. F. G. Clarke) 19 Lepidoptera (141108).
- CONNOLLY, Prof. J. P. (See under South Dakota State School of Mines.)
- CONSERVATOIRE BOTANIQUE, Geneva, Switzerland: 26 plants (144268, exchange).
- COOK, Dr. E. F., Philadelphia, Pa.: Copy of 8th edition of Remington's "Practice of Pharmacy" for historical pharmacy collection (142633).
- COOKE, Dr. C. W., Washington, D. C.: 296 mollusks from North Carolina (140735, 140879).
- COOLEY, Mrs. HELEN C., Washington, D. C.: A hair-work mourning brooch, weeping willow and tombstone design, made about 1859 by the Moutoux family of Brooklyn, N. Y., and presented by Amelia Moutoux to her cousin, Mrs. Hedwig Justi Kolbe, grandmother of lender (144255, loan).
- COOPER, Dr. G. A. (See under Smithsonian Institution, National Museum.)
- CORNING GLASS WORKS, Corning, N. Y.: 11 pieces of current patterns of art glass (140609); 9 study samples of textiles and insulating materials made of "Fibrous Glass" (141757); 6 specimens of fibrous glass textile products (142558).
- CORNWALL, I. E., Pacific Grove, Calif.: 15 isopods (141620).
- CORY, V. L., Sonora, Tex.: (Through Dr. T. H. Kearney) 15 plants from Texas (141696).
- COSTIGAN, J. E., Orangeburg, N. Y.: 49 prints, etchings, drypoints, and lithographs for special exhibition during February 1937 (142370, loan).
- COTTAM, Dr. CLARENCE (See under U. S. Department of Agriculture, Bureau of Biological Survey.)
- COTTON-TEXTILE INSTITUTE, Inc., New York City: 31 cotton fabrics produced by American manufacturers for fall and winter of 1936 (140930); 43 cotton textiles produced by American manufacturers for spring and summer of 1937 (144015).
- COTTRELL, R. F., Hsinking, Manchukuo: Set of postage stamps of Manchukuo issued in commemoration of the visit of the Emperor of Manchukuo to Tokio, Japan, on April 6, 1935 (140243).
- COVACOVICH, JACK, Biloxi, Miss.: 3 half-models and 1 sail plan of Biloxi, Miss., schooners (144183).
- COVILLE, Dr. F. V. (See under Department of Agriculture, Bureau of Plant Industry, and Mrs. J. O. Johnson.)
- COWDRY, E. V., Jr., St. Louis, Mo.: 40 shells from Puerto Rico (139965).
- CRAM, J. H., Port Arthur, Tex.: Half-model of a power passenger boat designed and built by donor (144175).
- CROPLEY, R. E., New York City: 3 albums of photographs and prints of steamships (142931); 29 volumes of notes and pictures of steam vessels alphabetically arranged in loose-leaf binders and 1 volume of cross-reference index to the same (143673); 4 volumes of notes and pictures of sailing vessels contained in loose-leaf binders alphabetically arranged (144100).
- CROSBY, Mrs. S. V. R., Boston, Mass.: Portrait of Col. John S. Crosby (1839-1914) by Alphonse Jongers (142290).
- CROSS, Dr. J. C. (See under Texas College of Arts and Industries.)
- CROSS, Dr. WHITMAN, Chevy Chase, Md.: Collection of 60 mineral specimens (143177).
- CUFODONTIS, Dr. G., Genova, Italy: 1 plant (140792); 1 specimen and a photograph of a plant from Costa Rica (141751).
- CULVER, LYMAN, Teller, Alaska: Large piece of fabric from the *Norge*, the first airship to fly over the North Pole, 1926 (139580).
- CURTISS AEROPLANE DIVISION, Curtiss Wright Corporation, Buffalo, N. Y.: model, 1/16 size, of the Curtiss airplane type SBC3, which is in current use by the U. S. Navy (143683).
- CUSTIS, ELEANOR P., Washington, D. C.: 60 pictorial photographs for exhibition during April 1937 (143446, loan).
- CZECHOSLOVAKIAN NATIONAL MUSEUM, Prague, Czechoslovakia: 10 plants from Czechoslovakia (141430, exchange); 200 plants from India (142872, exchange).
- DAMESYN, F. F., Baltimore, Md.: Russian silver ruble struck in 1899 (142842).
- DAMPF, Dr. ALFONS, Mexico, D. F.: 63 vials containing coleopterous larvae in alcohol, from Mexico (139966).
- DAMMERS, Comdr. C. M., Riverside, Calif.: 260 insects (52 reared hymenopterous parasites, 1 pseudoscorpion, 3 Homoptera, 4 butterflies, and 200 Microlepidoptera, many reared) (141344); 63 Lepidoptera (9 species), almost all reared (141706); 96 miscellaneous insects from California (141762).

- DANFORTH, Dr. S. T., Mayaguez, Puerto Rico: 1 skeleton of Puerto Rican tanager (141193); 2 skeletons of birds (143389); 2 rough skeletons of scaly-breasted thrasher from St. Vincent (144146).
- DANIEL, Rev. Brother, Bogota, Colombia: 49 plants from Colombia (140233); 94 plants from Colombia (142199, 142281; exchange).
- DANIEL BOONE BICENTENNIAL COMMISSION, Lexington, Ky.: (Through U. S. Treasury Department, Bureau of the Mint) 2 Daniel Boone Bicentennial half-dollars, 1937 (142669); Daniel Boone half-dollar struck in 1937 (144142).
- DANIELS, G. B., Washington, D. C.: 1 Amazonian parrot (141761).
- DARBY, Dr. H. H., New York City: 1 crab and 50 shrimps from Tortugas, Fla. (140538).
- DA ROCHA, Prof. DIAS, Ceara, Brazil: 56 miscellaneous insects from Colombia (139935).
- DAUGHERTY, Mrs. JEAN, Washington, D. C.: Needlework picture of a dog, about 1870, in a combination of plush stitch, cross stitch, and bead embroidery executed on single-thread canvas with wool, silk, and beads, which the donor received from her mother, Mrs. George Plahn, of Beardstown, Ill. (143412).
- DAVIS, A. G., London, England: About 500 fossil shells from the early Tertiary of England (142629); collection of about 500 invertebrates and fish remains from Lower Tertiary of England (144159, exchange).
- DAVIS, JOE. (See under University of North Dakota.)
- DAVIS, R. B., Washington, D. C.: Uniforms and accessories of type worn by a cadet at the U. S. Military Academy at West Point, N. Y., in 1937 (142986).
- DAVIS & GIST, McIntosh, Fla.: 8 plants from Florida (140214).
- DAVY, Dr. J. B. (See Oxford University, Imperial Forestry Institute.)
- DAYTON, Dr. W. A. (See under U. S. Department of Agriculture, Forest Service.)
- DEAM, C. C., Bluffton, Ind.: 1 badger from near Bluffton (142348). (See also under Paul Stout.)
- DEAROLF, KENNETH, West Lawn, Pa.: 10 amphipods and 21 isopods (141778, 142242, 142925).
- DECKER, Dr. C. El., Norman, Okla.: 2 type specimens of cephalopods from the Fernvale of Oklahoma (143126).
- DEGENER, OTTO, Honolulu, Hawaii: Collection of Crustacea (approximately 275 specimens) 1 fish, 2 lots of mollusks (124654); 123 plants from Hawaiian Islands (140249, 143440); 64 plants, 25 amphipods, 4 isopods, 100 shrimps, 5 crabs (141296).
- DEIGNAN, H. G., Chiengmai, Siam: 225 bird skins, 202 bird skeletons, 832 fishes, 3 mollusks, 7 leeches, approximately 25 isopods, 15 crabs, 97 shrimps, 26 vials of insects, 29 mammals, and 217 reptiles (140240); 607 bird skins, 17 bird skeletons, 3 lots of helminths, 102 spiders and insects, 30 mammals, 7 leeches, 10+ isopods, 50+ shrimps, 4 fishes, 29 frogs, 1 lizard from Siam (142208).
- DEIKE, Mr. and Mrs. U. C., Arlington, Va.: Ceramic collection consisting of 2 vases and a bowl (143809, loan).
- DE LA TORRE, Dr. CARLOS, Habana, Cuba: Type of fossil from the Tertiary of Nazarina, Habana (143173); 18 lots (58 specimens, including 15 types) of Cuban land shells (143866).
- DE LEON, DONALD. (See under U. S. Department of the Interior, National Park Service.)
- DEMAREE, Dr. DELZIE, Monticello, Ark.: 402 plants from Arkansas and Oklahoma (142224, 142326, 142527, 142585); 20 plants, mainly from Arkansas (142816, exchange).
- DE MIRANDE-RIBEIRO, Dr. ALIPIO, Rio de Janeiro, Brazil: 10 frogs and 2 tadpoles (representing 5 species and 4 topotypes) from Brazil (140581, exchange).
- DENHAM, Rev. W. D., Vienna, Va.: 4 mollusks from Vienna (140708); collection of mollusk material (15 adults, eggs, and 30 newly hatched young) (140956).
- DENNIS, EDWARD, Washington, D. C.: China plate of American manufacture bearing the mark "Minerva" (140520).
- DENSLOW, Dr. H. M., Hartford, Conn.: 21 plants from United States (141755, exchange).
- DENTON, F. W., Sioux Falls, S. Dak.: Lithograph of President and Mrs. Abraham Lincoln (142844).
- DENVER, UNIVERSITY OF, Denver, Colo.: (Through Mrs. Margaret F. Boos) 18 Permian fossils from the Luta limestone, 165 from the Cottonwood limestone, Cowley County, Kans., and a stratigraphic series of rocks from vicinity of Golden, Colo. (142943, exchange).

- DEPAUW UNIVERSITY, Greencastle, Ind.: 353 plants from Honduras (140831, 142819, 144031; exchange); (through Prof. T. G. Yuncker) 11 plants from Honduras (140867, exchange).
- DERJUGIN, Dr. K., Leningrad, U. S. S. R.: 146 marine mollusks from eastern Siberia, chiefly types (110768).
- DETWILLER, F. K., New York City: 49 prints for exhibition from March 29 to April 25, 1937 (143102, loan).
- DETWILLER, Mrs. F. K., New York City: One lithograph, "Sweep of Broadway" (143889).
- DE VITO, ALFONSO, Englewood, N. J.: Fragment of worked shell found on beach at Belmar, Monmouth County, N. J. (140515).
- DEVREESE, GODEFROID, Bruxelles, Belgium: (Through Mrs. Brand Whitlock) Bronze portrait medal of Queen Astrid of Belgium and a bronze portrait plaque of the four queens of Belgium, 1831-1935, designed by the donor (143549).
- DIETZ, Mrs. ELIZABETH, Washington, D. C.: 61 mollusks from the Piscataway region, Md., including 7 specimens of 1 species, which constitutes a new record for the District of Columbia region (141699); 451 land snails from the Piscataway region (142073).
- DINWIDDIE, Mrs. CAROLINE, New Orleans, La.: 26 fossils from the Devonian beds on west side of the Lower Peninsula, Mich. (141150).
- DISTRICT OF COLUMBIA NATIONAL GUARD, Washington, D. C.: (Through Col. J. W. Oehmann) 1 steel-plate engraving, invitation to the reception, Washington Light Infantry Corps, and 1 recent print from the plate (143786).
- DOLBEAR, B. L., Belmont, Mass.: Small electro-magnet believed to have been made by Joseph Henry at Albany in 1829 (142855).
- DOLLEY, J. S. (See under Works Progress Administration for Mississippi.)
- DONOHUE, A. J., Chicago, Ill.: Landon-Knox presidential campaign token, 1936 (141697).
- DORF, Dr. ERLING, Princeton, N. J.: 11 Devonian plants from Bear Tooth Buttes in Montana (143544).
- DOWNEY, MAUREEN, Emmitsburg, Md.: 1 beetle (141763).
- DOZOIS, T. F., Woodward, Iowa: 2 skulls and 2 separate lower jaws from an ossuary near Cambridge, Md. (143441).
- DRAKE, Prof. C. J., Ames, Iowa: (Through H. G. Barber) 7 Hemiptera (3 species), all paratypes (139946).
- DRAKE, W. H., Mount Dora, Fla.: 1 small trunk section of tangerine wood, collected by the donor in Lake County, Fla. (144080).
- DRUSHEL, Dr. J. A., Westfield, N. J.: 68 plants (140657).
- DRYDEN & PALMER, Long Island City, N. Y.: 2 specimens of rock candy for the materia medica collection (143445).
- DUCKWORTH, A. S., Cape Girardeau, Mo.: 65 plants from the Wilcox formation of Missouri (142623, exchange).
- DUGAND, G., Dr. ARMANDO, Barranquilla, Colombia: 151 bird skins from northern and central Colombia (140587, 142252, 142311, 144090); 26 plants from Colombia (141177, 143438).
- DUKE UNIVERSITY, *Department of Botany*, Durham, N. C.: (Through H. J. Oosting) 100 plants mostly from North Carolina (141779, exchange).
- DUNBAR, Dr. C. O. (See under Yale University, Peabody Museum of Natural History.)
- DUNCAN, SVEN, Washington, D. C.: 36 Cretaceous echinoids and belemnites from Moen, Denmark (144017).
- DUNLAP, C. E. (See under Berwind-White Coal Mining Co.)
- DUNLAP, HENRIETTA F., Washington, D. C.: 5 daggers and sheaths collected by the late Brig. Gen. Robert H. Dunlap, U. S. M. C., at Bases, Samar, 1900-1902, and a Chinese koto or lute (144077); Meyer system 9-keyed wooden flute owned by Henry Dunlap, of Brunswick, Maine, during the latter half of the 19th century and a copy of the opera "La Sonnambula" arranged for flute; 1 lot of photographic prints of Chinese subjects taken by a marine officer during the Boxer Rebellion in China, 1899-1900 (144244).
- DUPONT RAYON Co., New York City: 34 process specimens and finished products illustrating manufacture by the viscose process of both thrown and spun rayon yarn and fabrics (141577).
- DUREE, S. F., Long Beach, Calif.: An airmail bag used by Calbraith P. Rodgers during his transcontinental flight in 1911 and a propeller from the airplane in which he crashed at Long Beach, Calif., April 3, 1912 (144158).
- EARDELEY, J. W., Brooklyn, N. Y.: 2 U. S. Army uniform cap insignia of the Spanish American War period (140097).
- EAST, C. S. (See under Smithsonian Institution, National Museum.)

- EASTON, W. H., Washington, D. C.: Exhibition specimen of the trunk of a coniferous tree from the Lower Cretaceous formation near Takoma Park, Md. (141293).
- EBERHARD FABER PENCIL Co., Brooklyn, N. Y.: Miscellaneous drawing materials (144249).
- EDMONDSON, Dr. C. H., Honolulu, Hawaii: 2 vials of Bryozoa and a piece of tin encrusted with barnacles and Bryozoa (137900); 4 crayfishes from fresh waters of Oahu, T. H. (140112). (See also under Bernice P. Bishop Museum.)
- EDWARDS, E. E., Denver, Ill.: 2 specimens of millerite and related minerals from Illinois (141617, exchange).
- EGE, O. F., Cleveland, Ohio: "Original Leaves from Famous Bibles" (37 specimens) (144248, loan).
- EHRMANN, M. L., New York City: 2 specimens of euclase from Tanganyika, South Africa (143700, exchange).
- ELGIN CENTENNIAL MONUMENTAL COMMITTEE, Elgin, Ill.: (Through U. S. Treasury Department, Director of the Mint) 2 specimens of the Elgin, Ill., Pioneer Memorial half-dollar, 1936 (142667).
- ELGIN NATIONAL WATCH Co., Elgin, Ill.: (Through W. H. Samelius) Mounted watch parts, movements, and cases illustrating manufacture of modern watches (143998).
- ELIAS, Rev. Brother, Barranquilla, Colombia: 284 plants from Colombia (140521, 141176, 142367, 142651).
- ELLIOTT, Mrs. MAUDE H., Newport, R. I.: Pair of white silk stockings and a pair of white silk knit garters worn by Julia Ward on the occasion of her marriage to Dr. Samuel Gridley Howe, April 23, 1843 (141775).
- ELY, Mrs. C. R., Washington, D. C.: Bronze replica of Italian lucerna lamp obtained by the donor from estate of William Trusdall Day (143414).
- EMERY, D. L., St. Petersburg, Fla.: 5 mollusks from Gulfport, Fla. (140593).
- EMORY, Mrs. ELIZABETH M., Washington, D. C.: Collection of 37 pieces of early American blown and pressed glass, consisting of 21 pieces of Stiegel, 14 pieces of Sandwich, and 2 pieces of Stoddard glass for exhibition during July-August 1936 (140063, loan). (See also under W. E. Emory.)
- EMORY, W. E., and Mrs. ELIZABETH M. EMORY, Washington, D. C.: 5 specimens of Stiegel glass, consisting of 2 blue glass pitchers, 2 clear glass pitchers, and 1 blue glass salt (140012).
- ENGELHARDT, G. P., Hartsdale, N. Y.: 350 insects from North America and Europe (142571).
- ENGLISH, G. L., Rochester, N. Y.: Collection of monazite sands from Bald Mountain, Wyo. (140705).
- ERLANSON, C. O. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- ESKEW, C. T., Sentinel, Okla.: 136 plants from Oklahoma (142329).
- ESTACION EXPERIMENTAL AGRONOMICA, Santiago de Las Vegas, Cuba: 19 Cuban ferns (140675).
- EVEREL PROPELLER CORPORATION, Baltimore, Md.: A 1-bladed airplane propeller, counterbalanced, invented by W. W. Everts of Baltimore, Md., manufactured by Sensenich Bros., Lititz, Pa., and recently flown successfully (143831).
- EYERDAM, W. J., Seattle, Wash.: 50 plants from Washington (132187).
- FAN MEMORIAL INSTITUTE OF BIOLOGY, Peiping, China: 56 plants from China (142261, 142870 exchange).
- FARISS, MORA B., Columbia, Tenn.: 7 bony dermal plates of an alligator (143563).
- FEDERAL CIVIL WORKS ADMINISTRATION. (See under Smithsonian Institution, Bureau of American Ethnology.)
- FEITEN, CHARLOTTE, Fairfax, Va.: 1 great crested flycatcher (144109).
- FENTON, F. A., Stillwater, Okla.: 4 isopods (142275).
- FERRIERE, Dr. CH. (See under British Government, British Museum of Natural History.)
- FETTY, E. B., and J. E. BUTLER, Takoma Park, Md.: Stone artifacts and potsherds from a site bordering the Rappahannock near Remington, Va. (143876).
- FETVAJIAN, ARSCHAG, Boston, Mass.: Postage stamps and paper currency of the Armenian Republic (20 specimens) (144110).
- FICHTER EDSON, Lincoln, Nebr.: 119 flies (142522).
- FIDDLER, G. W., Jr., Audubon, N. J.: 1 insect (140002).
- FIDUCCIA, C. S., New Orleans, La.: 1 dragon-fly nymph (143210).
- FIELD, Mrs. J. H., Fayetteville, Ark.: 6 pictorial photographs, "Sun Flecked Waters", "Figure Study", "Ghosts of Summer", "A Quiet Pool", "The Fagot Gatherer", "Early Dawn" (140558).

- FIELD MUSEUM OF NATURAL HISTORY, Chicago, Ill.: 20 frogs from South America, including paratypes of 2 new species (140227, exchange); 34 insectivore skins with skulls (140836, exchange); 7 plants from Mexico and Ecuador (142026, exchange); 5 cones and 3 fragments of branches of fossil conifers from the Cerro Cuadrado Fossil Forest, Province of Santa Cruz, Argentina (142852); (through K. P. Schmidt) 2 frogs from Iguazu Falls, Misiones, Argentina (140226, exchange).
- FIERCE, MAUDE M., Washington, D. C.: Cotton and wool overshot-weave coverlet, "Double Bow Knot", woven about 1867 in Jackson County, Ohio, 2 cotton quilts, pieced in diagonal "Double Nine-Patch" and "Ocean Wave" patterns, made about 1850 and 1875 at Wilkesville, Vinton County, Ohio, by the donor's grandmother, Mrs. Mary Ann Bishop, and 2 thin wooden quilting guides used for outlining the quilting designs (141189); cotton applique quilt, "Wreath of Roses" made before 1850 at Wilkesville, Vinton County, Ohio, by the donor's grandmother (143694); "Fluffy" knitted wool rug made in 1846 at Wilkesville, Vinton County, Ohio, by the donor's grandmother, and a small sample knitted by the donor to show the method of making this rug and an example of darned net, 1875 (144046).
- FIRTH, F. E., Norfolk, Va.: 2 fishes from off the Virginia Capes (140601).
- FISHER, Dr. A. K., Washington, D. C.: 1 goshawk (143099).
- FISHER, G. L., Houston, Tex.: 50 plants from Texas (140044); 140 plants from Texas, New Mexico, and Arizona (141307).
- FISHER, Dr. W. K., Pacific Grove, Calif.: 24 hydrocorals, including types of 2 new species, and 26 barnacles (142495).
- FLEETWOOD, R. J., Madisonville, Ky.: 1 skin of Lapland longspur (142596).
- FLOOK, ERNEST, Harrisburg, Pa.: 1 beetle (139936).
- FLORASYNTH LABORATORIES, Inc., New York City: 96 specimens of perfumes and flavors, both natural and synthetic, illustrating the perfume industry (144242).
- FLORIDA STATE MUSEUM, Gainesville, Fla.: (Through Dr. T. Van Hyning) 3 crabs (140825).
- FLORIDA, UNIVERSITY OF, *Agricultural Experiment Stations*, Gainesville, Fla.: 12 plants from Florida (140034); 1 beetle from St. Petersburg, Fla. (143874); (through Dr. A. N. Tissot) 2 weevils from Florida (140113); one beetle reared from palm seeds in Cuba (140741); 10 weevils collected in Alabama (140973).
- FONTAIN, MARTIN, Sr., Biloxi, Miss.: Half-model of Biloxi oyster schooner designed by the donor (144174).
- FONTAINE, P. H., Kentwood, La.: Stone artifacts found on the old Fontaine plantation, 10 miles north of Jackson, Miss. (143692).
- FORT DEARBORN CAMERA CLUB, Chicago, Ill.: 60 pictorial photographs, exhibited during November 1936 (141339, loan).
- FORTUNE MAGAZINE, New York City: A painting by Mathew Green of the Pan American Airways flying boat, "China Clipper" (140617).
- FOSTER, Mrs. E. G., Rochester, N. Y.: (Through Mrs. Laura M. Allen) Small piece of hand-woven table linen in design of M's and O's; woven prior to 1820 by Mrs. M. M. Sutfin, near South Butler, Wayne County, N. Y. (140313); small piece of overshot weave table linen, or "poor man's damask", woven about 1826 near South Butler, N. Y., by Mrs. M. M. Sutfin (141122).
- FOWLER, Dr. H. W., Philadelphia, Pa.: 41 fishes, collected at St. Lenhards Creek, Calvert County, Md., June 18, 1933 (141114). (See also under Academy of Natural Sciences of Philadelphia.)
- FOX, IRVING. (See under Dr. J. P. E. Morrison.)
- FOX, J. B., Washington, D. C.: 1 Nashville warbler from the District of Columbia (141209).
- FOX, P. P., Knoxville, Tenn.: Slab of fossils from the Black River division of the Chickamauga limestone, Chattanooga, Tenn. (140885).
- FRACKER, S. B., Washington, D. C.: 10 Hemiptera (7 species), all types (140096); 2 Hemiptera (141774).
- FRANSSSEN, Dr. C., Buitenzorg, Java: 9 stone celts or hatchets found near Buitenzorg (140589, exchange).
- FRASER, Dr. LILIAN, Sydney, New South Wales: Type specimen of fungus (143862).
- FREEMAN, Mrs. J. W., and CARRIE MAY VON GLAHN, Wilmington, N. C.: 6 pieces of German jewelry (2 necklaces, 2 ear drops, and 2 small chains), formerly prized possessions of Lady Marie Antoinette Passha, of Germany (144208).
- FREEMAN, O. M., Washington, D. C.: 16 plants from Southeastern United States (141766); 5 plants from Maryland and Virginia (142227).

- FREEMAN-MARSH, Mrs. KATE S., Washington, D. C.: 6 pieces of Tibetan jewelry, 2 pieces of antique Spanish crested lace, and a set of carved ivory checkers and a carved ivory dice set, Chinese (144045).
- FRENTZ, HENRY, Biloxi, Miss.: A half-model, made about 1890, of a Mississippi (Gulf coast) lugger (144173).
- FRIEDMANN, Dr. HERBERT, Washington, D. C.: 1 lark (*Botha*) from South Africa (140756).
- FRINK, S. P., Washington, D. C.: Egg case of a mollusk from Shallotte River, Brunswick County, N. C. (140703).
- FRITZ, Dr. MADELEINE A. (See under Royal Ontario Museum of Palaeontology.)
- FROHNE, W. C. (See under University of Michigan.)
- FROST, C. A., Framingham, Mass.: 160 miscellaneous insects, all pinned (142004); 280 miscellaneous insects from Terrace, British Columbia, collected by Mrs. M. E. Hippisley (143081).
- FUKIEN CHRISTIAN UNIVERSITY, Foo-chow, China: About 375 miscellaneous insects from China (88623).
- FULLER, LEO H., Inc., Long Island City, N. Y.: A calendar done by the silk stencil process, subject "RCA Building, Rockefeller Center" (140602); 1 specimen of silk stencil printing, "Tambourin Russe" (142672).
- FUNDACAO ROCKEFELLER, Rio de Janeiro, Brazil: 1 fly (141343).
- FURTOS, Dr. NORMA C., Cleveland Heights, Ohio: 20 notostracans, 50 anostracans, 6 isopods, 1 amphipod, 25 cladocerans, 100 ostracods, and 100 copepods (139782); holotype, 8 paratypes, and 2 slides of a new species of ostracod (141639).
- GAIGE, Mrs. H. T. (See under Museum of Zoology, University of Michigan.)
- GALE, Mrs. MARGARET M., Glendale, Calif.: Early 19th century Italian silver filigree flower holder carried by Mrs. Robert Morris at her wedding (143751).
- GALLEGO, F. L. (See under Instituto Agrícola Nacional.)
- GALTSOFF, Dr. P. S. (See under Department of Commerce, Bureau of Fisheries.)
- GARBER, P. EL., Bethesda, Md.: A reproduction of the original form of box kite made by Lawrence Hargrave, of Australia (144271).
- GARDNER, Mrs. DANIEL, Newburgh, N. Y.: Doll of the period of 1850 (139886); American jewelry of the 19th century (36 specimens) (141105).
- GARDNER, Dr. JULIA, Washington, D. C.: 27 shells (5 lots) from Myrtle Beach, S. C. (142860).
- GARRET, Prof. A. O., Salt Lake City, Utah: 175 mosses from Utah (140789).
- GATES, Rev. SEBASTIAN, Grenada, British West Indies: 1 insect (140563).
- GAZIN, Dr. C. L. (See under Smithsonian Institution, National Museum.)
- GEISER, Dr. S. W., Dallas, Tex.: 115 isopods (139869, 140260); 10 shrimps (139898). (See also under Southern Methodist University.)
- GEOLOGICAL SURVEY OF WESTERN AUSTRALIA, Perth, Western Australia: (Through Dr. E. S. Simpson) Small collection of typical gold-bearing ore specimens from some of the chief Western Australian gold mines (138580, exchange).
- GEORGIA STATE ENTOMOLOGIST, Atlanta, Ga.: (Through C. H. Alden) 3 insects (140108).
- GERASIMOV, Dr. A. M., Leningrad, U. S. S. R.: 31 insects (8 species) (117968, exchange).
- GETCHELL, J. STIRLING, Inc. (See under Socony-Vacuum Oil Co.)
- GIANELLA, Prof. V. P., Reno, Nev.: 1 specimen of diaspore from Gillis Range, Nev. (142344); specimen of the Quartz Mountain, Nev., meteorite (144052, exchange).
- GILBERT, Dr. F. A. (See under Marshall College.)
- GILMAN, J. C., Clarksville, Iowa: 1 specimen of sun-cracked limestone from Clarksville (143159).
- GLADSTONE, WILLIAM, Washington, D. C.: Model $\frac{1}{16}$ size, of the *Pfalz D-12* airplane, one of the types employed by Germany for pursuit flying during the World War (143684).
- GLASSELL, S. A., Beverly Hills, Calif.: 5 crabs (139964); types and paratypes of 13 new species of crabs from Mexico (140553).
- GLENN, M. O., Magnolia, Ill.: 32 insects (140694).
- GLUCK, Dr. HUGO, Heidelberg, Germany: 14 plants (143150, exchange).
- GOFFIN, R. A., Woods Hole, Mass.: (Through Dr. H. M. Smith) 1 dried fish caught in a scallex dredge by the motor trawler *Friendship* in 30 to 40 fathoms east of Scotland Light Vessel, off Cape May, N. J. (140565).
- GOLDBERG, B. (See under R. N. Webster.)
- GOOCH, FREDERICK, Washington, D. C.: 3 photographs of British L type aerial cameras (142663).
- GOODING, L. N., Albuquerque, N. Mex.: 1 plant from New Mexico (141738).

- GOODRICH, B. F., Co., Akron, Ohio: 128 specimens illustrating processes used in the manufacture of shoes, gloves, and other rubber products (141659).
- GOODWIN, CLARENCE, Washington, D. C.: 1 barn owl (141242).
- GORGAS MEMORIAL INSTITUTE OF TROPICAL AND PREVENTIVE MEDICINE, Inc., Ancon, Canal Zone: (Through L. E. Rozeboom) 1 slide of mosquito (139977).
- GORGAS MEMORIAL LABORATORY, Panama, Panama: (Through Dr. H. C. Clark) 6 tapir feet, 1 set capybara feet, 1 small anteater, 1 agouti, 2 kittens, 1 water opossum, 32 mammal skulls, 2 bird skulls, 1 caiman skull (144228).
- GOSLIN, ROBERT, Lancaster, Ohio: 1 beetle (135280).
- GOUDY, FREDERIC W., Marlboro-on-Hudson, N. Y.: 3 examples of fine printing (143837).
- GOVERNMENT PRINTING OFFICE, U. S., Washington, D. C.: Map showing the "Beginnings of Printing in the United States" (142861).
- GRAENICHER, Dr. S., South Miami, Fla.: 5 insects (allotype, type, and 3 paratypes) (144202).
- GRAHAM, Rev. D. C., Chengtu, Szechwan, China: 22 bird skins from Szechwan (140546); 7 shells, 2 fishes, 6 shrimps, 1 cat skin, 4,500 insects (140814); 2 invertebrate fossils, 2 snakes, 10 earthworms, 6 leaches, and approximately 5,000 insects from China (143075); 8,000 miscellaneous insects, 4 snakes, and a few frogs and worms from China (144058).
- GRAHAM, Dr. E. H. (See under Carnegie Museum.)
- GRAHAM, HARRIET J., Granville, Ohio: (Through Dr. E. A. Chapin) Woven grass mat from Leopoldville, Belgian Congo (143423).
- GRANDFIELD, Mrs. C. P., Washington, D. C.: Collection of data relative to early airmail flights by Walter Brookins and Lincoln Beachey, 1911, which the donor's husband, as First Assistant Postmaster General, was instrumental in arranging (144258).
- GRANT, E. A., Silver Spring, Md.: Bird stone found 1 mile from Frankfort, Franklin County, Ky. (140971).
- GRANTHAM, VIRGINIA, Kearneysville, W. Va.: 1 Baltimore oriole (140732).
- GREAT LAKES EXPOSITION, Cleveland, Ohio: A collection of 12 models, each 1/16 size, showing progressive types of airmail planes for the period 1914-32 (144270).
- GREEN, E. L., Jr. (See under U. S. Department of the Interior, National Park Service.)
- GREENBERG, ALBERT, Tampa, Fla.: 2 fishes collected by donor in Cuba (140235).
- GREENE, C. T. (See under G. M. Greene.)
- GREENE, G. M., Harrisburg, Pa.; (Through C. T. Greene) 6 fly larvae (143867).
- GREENFIELD, RAY, Takoma Park, Md.: 1 bat from El Paso, Tex. (144023).
- GREGER, Dr. D. K., St. Louis, Mo.: 17 rare Ordovician brachiopods (141145).
- GRIGGS, Prof. R. F., Washington, D. C.: 1 plant from District of Columbia (141113).
- GROESBECK, W. M., Hornell, N. Y.: 4 amphipods (142547).
- GROH, HERBERT. (See under Department of Agriculture, Ottawa.)
- GROUT, Dr. A. J., Manatee, Fla.: 1 plant from Colorado (141752).
- GRUBER, C. L., Kutztown, Pa.: 1 plant from Pennsylvania (140013).
- GRUNER, J. W. (See under University of Minnesota.)
- GUERNSEY, LILLIAN A., Arlington, Va.: 48 pictorial photographs for exhibition during February 1937 (142570, loan).
- GUILLAUMIN, Dr. A. (See under Muséum National d'Histoire Naturelle.)
- GUNNELL, L. C., Alexandria, Va.: 1 Maryland yellowthroat from Virginia (140793); 1 red squirrel from Fairfax County, Va. (143184).
- GUNTER, GORDON, Palacios, Tex.: 2 shrimps (141739); 1 large freshwater shrimp from Corpus Christi, Tex. (144145).
- GUNTHER, Dr. K., Dresden, Germany: 10 flies (6 species), all paratypes but one (140497, exchange).
- GUTHRIE, C. D., Brooklyn, N. Y.: 2 Edison incandescent electric lamps of 1890-91 (140804).
- HAAS, FLORA A. (See under Arkansas State Teachers' College.)
- HALE, ELLEN D., Gloucester, Mass.: 1 etching, in color, "The Green Calash" (142035).
- HALL, A. W. (See under Treasury Department, Bureau of Engraving and Printing.)
- HALL, GRANVILLE, Chesterbrook, Va.: 1 egret (140028).
- HALSTEAD, L., Washington, D. C.: 14 ambrotypes, 13 daguerreotypes, 1 tintype, and 1 Quad camera, 1897 (141703).
- HAMMERMILL PAPER Co., Erie, Pa.: 4 specimens illustrating manufacture and use of sulphite wood pulp for writing papers (144206).
- HANCOCK, Capt. G. ALLAN. (See under Hancock Scientific Expeditions.)

- HANCOCK SCIENTIFIC EXPEDITIONS, Los Angeles, Calif.: (Through Capt. G. Allan Hancock) A collection of marine invertebrates, 6 bats, 1 fish, and 3 echinoderms (139772); 2 heads of hammerhead shark, one-third of a head of a shark of some other species, 1 porpoise skull, and 1 seal skull (143820); taken in the course of trips of the *Velero III* to the Gulf of California during the springs of 1936 and 1937, respectively.
- HANNA, M. A., Houston, Tex.: Cotypes of 2 species (7 specimens) of *Foraminifera* (139789).
- HANTZMON, Mrs. A. E. (See under Mrs. Hans Wunderlich.)
- HANZAWA, Dr. SHOESHIRO, Sendai, Japan: 7 sets of washings with *Foraminifera* and *Bryozoa* from the Pliocene of Japan (144124).
- HARBUTT, Rev. R. G., Canandaigua, N. Y.: A pump syringe in a wooden case and a set of 4 thumb lancets with tortoise shell handles, in a leather case, which were used about 1830 by the donor's father (139980).
- HARDY, D. E., Provo, Utah: 9 flies (141456); 5 flies (3 species) (143747, exchange).
- HARMAN, Mrs. ELIZABETH W. (See under Mrs. Eleanor W. Bisell.)
- HARPER, Rev. R. M., University, Ala.: 94 plants from Alabama, Mississippi, and Louisiana (140514, 142012, 143128).
- HARRINGTON, J. P., Washington, D. C.: 2 mollusks from the Yuma Desert, Ariz. (143897).
- HARRIS DIAGNOSTIC LABORATORY, Columbus, Ga.: 2 mole crickets (141223).
- HARRIS, GEORGE, Washington, D. C.: 52 portraits of notables of 30 years ago (143465).
- HARRIS, Prof. H. M. (See under Iowa State College.)
- HARRIS, J. W., Washington, D. C.: Wooden snuff box made in England, period of 1820 to 1840 (142515).
- HARRIS, WRAY, Tutuila, Samoa: A collection of Hawaiian recent and fossil mollusks, about 1,000 specimens, from Oahu, Hawaii (141745).
- HARRISON, W. H., Indianapolis, Ind.: A United States flag flown over Fort Atares, Habana, Cuba, December 20, 1898, and two coats and a vest worn by President Benjamin Harrison in 1889 (142580).
- HART, Dr. C. D., Philadelphia, Pa.: 1 photograph of a swordfish attacking a boat (141595).
- HARTMAN, OLGA, Berkeley, Calif.: 10 amphipods, 50 copepods (including holotype of a new species) (140933); types of 3 new species of annelid worms and 8 paratypes of one of the species (141351); 20 annelid worms (including types of 9 new species) (141601).
- HARVARD UNIVERSITY:
- Arnold Arboretum*, Jamaica Plain, Mass.: 171 plants from China (139786, 140934); (through Dr. E. D. Merrill) fragmentary plant from China (141732). All exchange.
- Farlow Herbarium*, Cambridge, Mass.: 81 plants from North America (142532); 50 North American lichens (143186). All exchange.
- Gray Herbarium*, Cambridge, Mass.: 2 photographs of plants (140537); 405 plants from Virginia (140573, 142201); 356 plants from northern Brazil (140945); 246 plants collected in Cuba by Dr. L. B. Smith (141139); 13 ferns from Java, collected by Francis Ramaley (142280); photograph of fern illustration (142529); 11 photographs of ferns (type specimens) in European herbaria (142874); 166 plants from Brazil and Colombia collected by Drouet (143151); 2 photographs of tropical American ferns (143188); 300 plants mainly from Western United States (144039); 97 plants (144082); photograph of drawing of type specimen of fern (144161); (through C. A. Weatherby) 1 plant from South America (141239). All exchange.
- Mineralogical Museum*, Cambridge, Mass.: 2 specimens of bermanite from Arizona (141380, exchange).
- Museum of Comparative Zoology*, Cambridge, Mass.: 2 flies (141132, exchange); 2 turtles from the West Indies (141648, exchange); 3 salamanders from Central America (142299, exchange); 1 chameleon from Africa (142533); 14 mollusks from Florida (143174); (through Dr. F. A. Chace, Jr.) 25 amphipods (139781, exchange); 6 crabs from Zanzibar and the Caroline Islands (140582, exchange); (through Dr. W. J. Clench) 13 mollusks from Lake Eustis, Tavares, Fla. (140917).
- HARVEY, Mrs. DOROTHY R. (See under San Diego State College.)
- HARVEY, R. N., Johannesburg, South Africa: Papier mâché head of a Xosaman, South Africa (141283).

- HASBROUCK, Dr. E. M., Washington, D. C.: 1 green-winged teal (143748).
- HATCH, W. R. (See under Prof. C. L. Wilson.)
- HAWAII, UNIVERSITY OF, Honolulu, Hawaii: (Through Dr. J. E. Alicata) 1 beetle (139529).
- HAWKEN, Dr. STAFFORD, Washington, D. C.: 55-pound marlin swordfish caught by the donor 40 miles off Ocean City, Md., on August 10, 1936 (140556).
- HAWKINS, Dr. A. C., New Brunswick, N. J.: 1 lot of aragonite and glauberite crystal cavities from New Mexico, and fuchsite from Georgia (142859).
- HAYWARD, WYNDHAM, Winter Park, Fla.: 4 plants from Florida (140033, 140826, 141722); seed pod of cultivated plant (143189).
- HEBARD, MORGAN. (See under the Academy of Natural Sciences of Philadelphia.)
- HEDGES, R. F., Safford, Ariz.: 6 mollusks (136943).
- HEIZER, O. F. (See under Rare Metals Corporation.)
- HELLER, L. L., Sunland, Calif.: 7 specimens of joaquinite from California (142642, exchange).
- HELMS, Mrs. MAY W., and C. M. WHITNEY, Jr., New York City: Sketch showing a pen and a baton made from the wood of the U. S. S. *Constitution* (141244).
- HENBEST, Mrs. FANNY R., Washington, D. C.: (Through L. G. Henbest) About 171 land shells from Washington County, Ark. (140918).
- HENBEST, L. G. (See under Mrs. Fanny R. Henbest and Bud McDaniel.)
- HENDERSON, Prof. JUNIUS, Palo Alto, Calif.: 16 mollusks from Gulfport, Fla. (139944).
- HENRY LESTER INSTITUTE OF MEDICAL RESEARCH, Shanghai, China: 124 mollusks from China (140050).
- HERING, Dr. MARTIN, Berlin, Germany: 68 flies (21 species, 7 of which are represented by 27 paratypes) (142476, exchange).
- HERMANN, F. J., Ann Arbor, Mich.: 356 plants, mostly from Michigan (143393).
- HESS, F. L., College Park, Md.: 80 specimens of miscellaneous minerals (140517, 144163); 6 specimens of mercury and other ores from Mexico (142857); 1 specimen of biotite, containing rubidium and cesium, from spodumene pegmatite 2 miles southwest of Kings Mountain, N. C. (143416); 1 specimen of nepheline-syenite from Bancroft, Ontario (144056).
- HICKS, L. E., Columbus, Ohio: 32 bird skins from Ohio (140993, 141326).
- HICKS, ROWLAND, Palacios, Tex.: Half-model of a Gulf fishing boat designed by the donor (144199).
- HIDORE, JOHN, Rockford, Iowa: 8 specimens of Upper Devonian coral, 1 specimen of stromatopore, and about 250 assorted invertebrates from Rockford (141143).
- HILDEBRAND, Dr. S. F. (See under U. S. Department of Commerce, Bureau of Fisheries.)
- HILL, POLLY KNIPP, St. Petersburg, Fla.: 50 prints for special exhibition during January 1937 (142060, loan).
- HILLIER'S SON CORPORATION, R., New York City: 3 specimens of vegetable drugs (143397).
- HINTON, H. E., London, England: 2 beetles (140832, exchange); 145 beetles (51 species), including 5 types and 47 paratypes (142011).
- HISTORY INSTITUTE OF AMERICA, New York City: 1 large chart (United States section) from a series entitled "History on Parade", done by lithography in 15 colors (140575).
- HOBBS, H. H., Gainesville, Fla.: 31 amphipods (141363, 141742, 142241).
- HOBBS, MORRIS H., Chicago, Ill.: 66 prints mounted in 50 mats for special exhibition during December 1936 (141705, loan); 1 drypoint, "Louise" (143888).
- HOFFECKER, L. W., El Paso, Tex.: Old Spanish Trail commemorative half-dollar struck in 1935 (142637).
- HOFFMAN, I. N., Cabin John, Md.: 1 mole from Seven Locks Road, Cabin John (141142).
- HOFFMAN, J. D., Chevy Chase, Md.: 1 great horned owl (144068).
- HOFFMAN, J. I., Washington, D. C.: 1 Cooper's hawk (140803).
- HOFFMAN, Dr. W. A., San Juan, Puerto Rico: Small collection of miscellaneous insects from Puerto Rico (136434).
- HOFFMAN-LAROCHE, INC., Nutley, N. J.: A 1-gram specimen of Histamine phosphate, U. S. P. XI (140009).
- HOGAN, E. J., Washington, D. C.: An 8-by-10 Anthony and Seoville camera (140710, loan).
- HOKKAIDO GOVERNMENT, *Fishery Experiment Station*, Hokkaido, Japan: (Through Dr. T. Kinoshita) 4 mollusks from Japan (143462, exchange).
- HOLGATE, MABEL, Cheverly, Md.: 1 beetle (143555).
- HOLLANDS, W. C., Ann Arbor, Mich.: 1 ship carpenter's adz (141183).

- HOLLEY, ANSON**, Biloxi, Miss.: 7 half-models of fishing and pleasure craft, designed by the donor for the region of Biloxi, Miss. (144188).
- HOLT, E. G.**, Washington, D. C.: Metatarsal of a fossil walrus from Randall Cliffs, Md. (142231).
- HOMER, GEORGE**, Mont Vernon, N. H.: 39 land shells from Pan de Azucar, Cuba (143474).
- HONESS, R. F.**, Laramie, Wyo.: 1 type specimen of a new genus and species of cestode (143762).
- HOOD, J. D.**, Rochester, N. Y.: 250 miscellaneous insects from Barro Colorado Island, Panama, including several new to the Museum collection (140786).
- HOPKINS, J. L., & Co.**, New York City: 1 specimen each of Iceland moss, stavesacre seed, and larkspur seed (143425).
- HOPKINS, Prof. MILTON.** (See under University of Oklahoma, Department of Botany.)
- HOPKINS MARINE STATION**, Pacific Grove, Calif.: (Through Dr. R. L. Bolin) 1 fish from off southern California (142664).
- HORTON, F. W.**, Washington, D. C.: 1 specimen of osmiridium from China Flat mine, Trinity River, Klamath, Calif. (140241, exchange).
- HOSTETTER, D. R.**, Mountain Lake, Va.: 4 skins of song sparrows (140608).
- HOTCHKISS, NEIL.** (See under U. S. Department of Agriculture, Bureau of Biological Survey.)
- HOUBIGANT, Inc.**, New York City: (Through Jacques Manoha) Campaign chest of Napoleon I with accessories (105 specimens) (144111, loan).
- HOUGH, Mrs. WALTER**, Washington, D. C.: 2 pre-stamp covers (140245).
- HOUSHOLDER, V. H.**, Phoenix, Ariz.: 1 coral snake from U. S. Range Reserve Station, Santa Rita Mountains, Ariz. (139897); 2 rattlesnakes from Grier and Fort McDowell, Ariz., respectively (140764); skin and skull of a pocket mouse from Ashfork, Ariz. (140779); 2 snakes from Arizona (140853); 1 young jew's-harp snake from Phoenix, Ariz. (141098).
- HOUSTON, LILY M.**, Louisville, Ky.: Photograph of Mrs. Mary Young Pickersgill of Baltimore, Md., who made the original "Star Spangled Banner" in 1814 (141610).
- HOWELL, Dr. B. F.**, Princeton, N. J.: 14 Miocene brachiopods from Patagonia (142196).
- HOWES, H. E.**, Washington, D. C.: Small collection of agates from Chagres River, Canal Zone (140094).
- HRDLIČKA, Dr. ALEŠ**, Washington, D. C.: 2 ivory objects from the Bering Sea region, Alaska (140928); 4 Eskimo skeletons from Hooper Bay, Alaska (142374). (See also under Maria and Aleš Hrdlička, Lt. H. B. Hutchinson, Mrs. Charles D. Walcott, and Smithsonian Institution, National Museum.)
- HRDLIČKA, MARIA and Dr. ALEŠ**, Washington, D. C.: A brooch, comb, bracelet, and 3 necklaces of Bohemian garnets and 2 hand-painted Limoges porcelain cups and saucers (143895).
- HUBBS, Dr. C. L.** (See under Tennessee Valley Authority.)
- HUBRICHT, LESLIE**, St. Louis, Mo.: 15 shrimps, 9 crabs, 10 phyllopods, 150 amphipods, 100 isopods (142592).
- HUDDLE, Prof. J. W.**, Chapel Hill, N. C.: 8 collections of conodonts from the New Albany shale of Indiana (144123, exchange).
- HUGHINS, W. A.**, South Alexandria, Va.: 19th century Russian military sword (143105).
- HULL, J. B.**, Washington, D. C.: 1 bald eagle (143695).
- HUMPHREY, R. R.**, Peach Springs, Ariz.: 66 phyllopods from Laguna Lake, Ariz. (140692).
- HUNGERFORD, Prof. H. B.**, Lawrence, Kans.: 4 insects (2 paratypes each of 2 species), all from South America (142549). (See also under University of Kansas.)
- HUNTER, DARD**, Chillicothe, Ohio: 2 books on papermaking by donor, "A Papermaking Pilgrimage to Japan, Korea, and China" and "Papermaking in Southern Siam" (141694, exchange).
- HUNTER, H. M.**, Tiffin, Ohio: 100 \$1 notes (scrip) issued by the Fostoria Industrial Corporation, Fostoria, Ohio (142391).
- HUTCHINSON, Lt. H. B.**, Annapolis, Md.: (Through Dr. A. Hrdlička) Bone and stone artifacts from Kiska, Amchitka, and Rat Islands, western Aleutian Islands, Alaska (140915).
- HYMAN, Dr. LIBBIE H.**, New York City: 10 slides of flatworms, including types of 2 new species (one of them of a new genus) (139868).
- ICKES, Hon. HAROLD L.**, Washington, D. C.: Head of earthenware doll from the Pueblo of Isleta, found in Skokie Marsh, Chicago (142918).
- IKEDA, Prof. HAYATO**, Fukuoka, Japan: 6 sand-dollars (140583, exchange).
- INDIA, GEOLOGICAL SURVEY OF**, Calcutta, India: 1 specimen of tawmanite from Jade Mines, Myitkyina District, Burma, India (140889).

- ING, ANNA M., Washington, D. C.: 1 wood thrush (143893).
- INSTITUTO AGRICOLA NACIONAL, Medellin, Colombia: (Through F. L. Gallego) 55 miscellaneous insects from Colombia (140302).
- INSTITUTO AGRONOMOICO DO ESTADO DE SÃO PAULO, Campinas, Brazil: 570 plants from Brazil (139914, 140672, 141782, 143548; exchange).
- INTERIOR, U. S. DEPARTMENT OF THE: *Geological Survey*: A crustacean, consisting of 2 carapaces and 1 cheliped, from the Ocala limestone near Newberry, Alachua County, Fla. (139924); 7 staurolite crystals from Galax, Va. (140253); 1 large specimen of epidote rock from Skyline Drive, near Panorama, Va., collected by H. D. Miser (140821); 1 lot of samarskite associated with small amount of columbite from McKinnery mine, Little Switzerland, N. C., and 1 lot of allamite from Yancy County, N. C. (140822); 4 Miocene pelecypod shells from Virginia (141159); 20 specimens of nodular, orbicular, and banded chromite from northern California, described by W. D. Johnston, Jr. (141264); 3 analyzed igneous rocks from a large boulder in Nevada County, Calif. (141371); 136 fossil shells from Lanai, Hawaii, collected by H. T. Stearns (141645); 1 fossil plant from Wade N. Dak., collected and described by Dr. R. W. Brown (141716); 1 lot of lime-secreting algae from the Permian of west Texas (142578); a collection of paligorskite from 500-foot level, Pend Oreille mine, Metaline quadrangle, northeast Washington (142892); 2 specimens of gold ore from Camp Bird mine, Ouray, Colo. (143103); 5 minerals with optical properties of euxenite, 4 specimens of partly kaolinized oligoclase, and 1 of margarite from North Carolina (143200); 99 specimens of rocks and associated ores from North and South Carolina (143554); 1 transforming camera (143742); representative rocks and minerals from Alabama, Georgia, and Virginia collected during a study of the gold deposits of the Southeastern States (143783).
- National Park Service*: Small collection of miscellaneous insects from Mount Rainier National Park (130927); 55 mollusks taken at Cape Hatteras, N. C. (140562); 39 birds from Mexico (143794); (through H. P. K. Agersborg) 2 snakes, 1 frog, 2 toads, 10 insects, 1 crustacean, and 19 mollusks from West Virginia (139959); 1 salamander from Cumberland Knob, Va. (140806); 1 salamander and 2 insects from Table Rock State Park, Perkins, S. C. (142381); (through Arno B. Cammerer) 41 whitefishes from Glacier National Park, Mont. (141636); (through Donald de Leon) 12 insects from California (140003); (through E. L. Green, Jr.) 225 shells and 10 serpulid worm tubes from the region of Cape Hatteras (141637); (through Dr. H. M. Jennison) 1 plant from Tennessee (140886); (through Willis King) 25 salamanders from the Great Smoky Mountains National Park (140733).
- IOWA, STATE UNIVERSITY OF, *Department of Botany*, Iowa City, Iowa: (Through Prof. G. W. Martin) 22 plants from Panama and Colombia (141749, exchange).
- IOWA STATE COLLEGE, Ames, Iowa: (Through Prof. H. M. Harris) 4 insects (2 species) (143630, exchange).
- JACKSON, BLANCHE E., Baton Rouge, La.: 46 mollusks from Louisiana (140549, 140725).
- JACKSON, LESLEY, Washington, D. C.: 45 etchings in color for special exhibition during November 1936 (141178, loan); 1 etching in color, "Nazareth" (142036).
- JACOBSON, EDWARD, The Hague, Netherlands: 266 determined insects, including many cotypes and paratypes (100949).
- JACOT, A. P., Asheville, N. C.: 17 beetles determined by Orlando Park (142523).
- JAEGER, E. C., Riverside, Calif.: 1 plant (142096).
- JAGELLONIAN UNIVERSITY, Krakow, Poland: 149 ferns from Java (142917, exchange); (through Dr. B. Pawlowski) 100 plants from Poland (142531, exchange).
- JAMES, M. C. (See under U. S. Department of Commerce, Bureau of Fisheries.)
- JANENSCH, Dr. W., Berlin, Germany: A composite upper and lower dentition of an extinct mammal from a crevice at Mahrigen, near Ulm, Bavaria (140051, exchange).
- JARDIN BOTANIQUE DE L'ÉTAT, Brussels, Belgium: 400 plants from Belgian Congo and Africa (142530, exchange).

- JARVIS, L. D., Saugatuck, Mich.: Small banner commemorating the first inauguration of George Washington as President of the United States, 1789 (142895).
- JASPER, W. C. (See under Brotherhood of Locomotive Engineers.)
- JENNI, C. M., Festus, Mo.: Collection of Bryozoa and blastoids from Mississippian rocks of eastern Perry County, Mo. (143699, exchange); about 200 bryozoans from Mississippian rocks of Missouri (143421, exchange).
- JENNISON, Dr. H. M. (See under U. S. Department of the Interior, National Park Service.)
- JEWELL, CLAY, Baltimore, Md.: 1 white marlin fish, caught 45 miles off Ocean City, Md. (140673).
- JEWELL, Dr. MINNA E., Harvey, Ill.: 5 fresh-water sponges (140866).
- JOHNS HOPKINS UNIVERSITY, Baltimore, Md.: (Through Dr. R. Lee Collins) 27 fossil shells (types and figured specimens) (117168, deposit).
- JOHNS-MANVILLE PRODUCTS CORPORATION, Lompoc, Calif.: Large fossil fish embedded in diatomaceous earth from the Tertiary of California (143410).
- JOHNSON, E. N., Rupert, Idaho: 31 butterflies (31 species) (137809).
- JOHNSON, FRANK, Biley Island, Maine: Half-model of a Hampton boat designed and made by the donor about 1900 (141345).
- JOHNSON, Mrs. J. O., Gordonsville, Va.: (Through Dr. F. V. Coville) 1 plant from Virginia (140065).
- JOHNSON, J. S., Jr., Minneapolis, Minn.: Pair of tubular ice skates made and used by John S. Johnson, father of the donor and one-time speed skating champion of the world (143593).
- JOHNSON, SAM, Apalachicola, Fla.: 11 half-models of vessels, most of them designed and built by the donor (144182).
- JOHNSTON, Dr. J. R., Hyannis Port, Mass.: 22 ferns from Guatemala (143111).
- JONES, Capt. E. D., New London, Conn.: Harpoon socket piece of ivory belonging to the Old Bering Sea Culture of St. Lawrence Island, Alaska (144055).
- JONES, Prof. G. N. (See under University of Washington.)
- JONES, Dr. W. B., University, Ala.: (Through Winnie McGlamery) 4 brachiopods from the Eocene of Alabama (139969).
- JOPSON, H. G. M., Bridgewater, Va.: Type of a salamander and 1 larvae of the same species (142095).
- JOPSON, Mr. and Mrs. H. G. M., Bridgewater, Va.: 2 lizards from Big Pine Key, Fla. (144137).
- JUDSEN, C. A., Chicago, Ill.: Two miners' rubber protective knee pads (144247).
- JUMP, GEORGE, and EDWARD YATES, Magnolia, Colo.: 1 sample of gold and silver ore from Lady Franklin mine, Magnolia District, Boulder County, Colo. (142499).
- KAHL, Dr. HUGO. (See under Carnegie Museum.)
- KANSAS, UNIVERSITY OF, *Entomological Museum*, Lawrence, Kans.: 24 cicadas (8 species, one represented by 4 paratypes) (139961, exchange); (through Prof. H. B. Hungerford) 2 insects (142737, exchange).
- KAYNOR, W. F., Waterbury, Conn.: 1 specimen of leather tanned from human skin and a billfold made from this leather (141904).
- KEARNEY, Dr. T. H. (See under U. S. Department of Agriculture, Bureau of Plant Industry and V. L. Corey.)
- KECK, Dr. D. D. (See under Carnegie Institution of Washington.)
- KEECH, SUSAN P.: 2 mahogany tables once owned by Benjamin Franklin (141173, bequest).
- KEELER, C. B., Glendora, Calif.: 55 prints, drawings, and photographs for special exhibition during March 1937 (142671, loan).
- KEIFER, H. H. (See under California Department of Agriculture.)
- KELLOGG, Prof. C. R., Denver, Colo.: 7 earthworms from Foochow, China (88701).
- KELLOGG, Dr. REMINGTON, Washington, D. C.: 1 bank swallow (140248); 1 bird skin (143400).
- KENK, Prof. ROMAN, Ljubljana, Yugoslavia: 33 fresh-water triclads from Virginia, comprising 3 species described by the donor, 2 of which are represented by topotypes (141776).
- KENNAN, Mrs. GEORGE, Medina, N. Y.: A collection of ethnological objects, collected by George Kennan in Siberia in 1866 and in subsequent years, and 2 specimens of silver ore from Minisink mines, Siberia, and heliograph from Spanish warship *Reina Mercedes*, sunk in Santiago Harbor, 1898 (140552).
- KENTUCKY, UNIVERSITY OF, *Western Kentucky Substation*, Princeton, Ky.: (Through Dr. P. O. Richter) 1 weevil (142641).
- KERMODE, FRANCIS, Victoria, British Columbia: Casts of type and topotype teeth of fossil sirenian (143808).
- KERR, Prof. P. F., New York City: 1 specimen of sericite from Tasmania (142248).

- KILBOURNE, RUTH, San Diego, Calif.: 6 pictorial photographs: "Flamingos", "White Pelicans", "The Pendant", "Two Queens", "Durante", and "Glory of the Night" (141612).
- KILLIP, E. P., Washington, D. C.: 101 plants from the United States, mostly for duplicates (141291); 328 plants from the Florida Keys (143894). (See also under Smithsonian Institution, National Museum.)
- KING, Mrs. J. A. C., Lansdowne, Pa.: 1 panther skull from Elk County, Pa. (140263).
- KING, WILLIS. (See under U. S. Department of the Interior, National Park Service.)
- KINOSHITA, Dr. T. (See under Hokkaido Government, Fishery Experiment Station.)
- KLEINOSCHIEG, Mrs. C. A., Elgin, Ill.: For the Richard K. Peck collection, a Papuan dugout canoe with carved bow and stern, from British New Guinea (131988, deposit).
- KLOTS, Dr. A. B. (See under College of the City of New York.)
- KLUG, GUILLERMO, Iquitos, Peru: 303 plants from Peru (141182, 142366, 142923).
- KNIGHT, W. A., Biltmore, N. C.: Specimens and 5 photographs of plants from Georgia (139957); 1 plant from Virginia (141593); 1 plant from Tennessee (141625).
- KNOFF, Mrs. ADOLPH, and Col. E. G. BLISS, New Haven, Conn.: A collection of ethnological specimens from the Philippine Islands collected by Gen. Tasker H. Bliss (141700).
- KNOWLTON, Dr. G. F. (See under Utah State Agricultural College.)
- KOBA, Dr. KAZUO, Mukden, Manchuria: 10 crabs (138733).
- KOCH, Dr. C., Duino, Italy: 23 insects (138082, exchange).
- KOCH, Mrs. R. J., Chicago, Ill.: The original wooden "macaroni box" model calculating machine made by Dorr E. Felt, the donor's father, in 1884-85 (143207).
- KOFOID, Prof. C. A., Berkeley, Calif.: 2 type slides of trematodes (143138).
- KOLIHA, Dr. JAN. (See under Narodni Museum.)
- KOMP, W. H. W., Ancon, Canal Zone: 17 specimens of mosquito material, representing 10 species, all type material (141342); 7 slides of mosquito material (143080).
- KRAFKA, JOSEPH, Jr., Augusta, Ga.: 1 fly (143660).
- KREBS, SIDEON, & SON, Pascagoula, Miss.: Half-model of the fishing smack *Baby Ann*, designed and built by the donor (144177).
- KRIEGER, H. W., Washington, D. C.: 3,000 mollusks from New Providence and Long Island, Bahamas (142084).
- KROMBEIN, K. V., Buffalo, N. Y.: 40 bees (143543, exchange).
- KRUKOFF, B. A., New York City: 361 plants from Sumatra (143656).
- KUMM, Dr. H. W. (See under Rockefeller Foundation, International Health Division.)
- KYANCUTTA MUSEUM, Kyancutta, South Australia: (Through R. Bedford) 46 specimens (22 species) of Lower Cambrian fossils from Ajax mine, Beltana, South Australia (136677, exchange).
- LAGEN, MARC. (See under American Pacific Whaling Co.)
- LAKESIDE PRESS, Chicago, Ill.: A 4-color "Deeptone" reproduction of the Audubon bird plate "The Pileated Woodpecker" (143461).
- LANDMAN, MANUEL, Washington, D. C.: 100 Devonian invertebrate fossils and 3 specimens of post-Pleistocene shells from New York (139963).
- LONDON, C. W., Oxford, Md.: 4 half-models of watercraft designed and built by the donor (144181).
- LANE, BOODLE, Galena, Kans.: 1 large specimen of dolomite (140022); 1 large specimen of galena sphalerite, chalcopyrite, and pink dolomite from the Barr mine, Cherokee County, Kans. (142336); 1 specimen of chalcopyrite on sphalerite from Vinegar Hill Barr mine, Cherokee County, Kans. (143887).
- LANE, M. C., Walla Walla, Wash.: 23 beetle larvae (9 named species) from Russia (143457, exchange).
- LATHROP, GERTRUDE K., Albany, N. Y.: 2 specimens of the Albany commemorative half-dollar struck in 1936 (141341).
- LAWHORN, Mrs. H. H., Chevy Chase, Md.: 1 greyhound (142305).
- LEAPHART, J. M., Columbia, S. C.: 1 beetle (140015).
- LEIM, Dr. A. H., St. Andrews, New Brunswick: 14 lots of amphipods, 1 lot of echinoderms, and 1 lot of mollusks (141389).
- LEITH, E. I. (See under Yale University, Peabody Museum of Natural History.)
- LELLMAN, K. V., Montevideo, Uruguay: 5 munidas (140001).
- LEON, Rev. Brother, Habana-Vedado, Cuba: 14 plants from Cuba (142659, exchange).
- LEONARD, E. C., Washington, D. C.: 9 plants from District of Columbia and vicinity (142631).

- LEONARD, JOHN, Urbana, Ohio: 1 small trunk section of coffee-tree collected by donor in Champaign County, Ohio (144079).
- LEBNER, MICHAEL, New York, City: A specimen of blue marlin, mounted, taken July 17, 1935, at Bimini, Bahama Islands (136849).
- LEVINGSTON, G. M., Orange, Tex.: Half-model of towboat and 2 tracings of lines and deck plan of Sabine River pilot boat *Raider* (143427).
- LEWIS, J. B., Amelia, Va.: 1 skull of Hudsonian curlew found in the Dismal Swamp, Va. (141692).
- L'HERISSON, Dr. CAMILLE, Port-au-Prince, Haiti: 1 spider from Morne La Salle (144028).
- LIDDLE, CARL, Fort Myers, Fla.: 9 fossil shells from Florida (140468).
- LIGHT, Dr. S. F., Berkeley, Calif.: 71 copepods, including cotypes of 6 new species (142383).
- LIMA, Dr. A. C., Rio de Janeiro, Brazil: 20 flies (10 named species; 17 of the specimens cotypes of 8 species) (144162, exchange).
- LIN, Dr. S. Y. (See under Chekiang Provincial Fisheries Experiment Station).
- LINCOLN, W. E., Fort Myers, Fla.: 2 land shells from Florida (139973); 2 shells and 5 barnacles from Florida (140659); 5 shark teeth from the Caloosahatchie River near Buckingham, Fla., and 1 mollusk from Padre Island near Aransas Pass, Tex. (140824).
- LINDBERG, Dr. G. U. (See under Zoological Institute.)
- LINGEBACH, C. C., Washington, D. C.: 4 bird skins (143394); 3 skeletons of the rusty blackbird (143651). (See also under Smithsonian Institution, National Museum.)
- LINNEMAN, J. P., Buffalo, N. Y.: 2 specimens of byssolite from the Tilly Foster Iron mine, Brewster, Putnam County, N. Y. (142559).
- LIPPINCOTT, J. B., Co., Philadelphia, Pa.: (Through Dr. H. C. Wood, Jr.) 1 copy of the United States Dispensatory, Centennial (22d) Edition, for the exhibit of American medical standards (143449).
- LITTLE, E. L., Jr., Globe, Ariz.: 43 reptiles and amphibians, mostly from the Jornada Experimental Range, Dona Ana County, N. Mex. (137389); 1 specimen of moss (141379).
- LIUNI, F. (See under Associated Telephone Camera Clubs.)
- LIVELY, L. A., Murfreesboro, Tenn.: One 30-by-60 negative from which the carbon print was made that has been in the collection many years (144107).
- LOCHE BROS., Biloxi, Miss.: Take-off board of the power fishing boat *Lillie Olivia*, designed and built by the donors (144200).
- LONG, F. R., Louisiana, Mo.: 8 brachiopods from the Devonian, Mississippian, and Pennsylvanian periods of the Midwestern United States (142619); 39 Silurian, Devonian, and Mississippian crinoids, brachiopods, and corals from the vicinity of Louisiana, Mo. (142856).
- LONGMAN, H. A. (See under Queensland Museum.)
- LOOMIS, H. F., Coconut Grove, Fla.: 4 myriapods (141597).
- LOS ANGELES MUSEUM OF HISTORY, SCIENCE, AND ART, Los Angeles, Calif.: A composite skeleton of giant ground sloth from Rancho La Brea, Calif. (133205, exchange).
- LUMSDEN, Mrs. T. H., Rock Cliff-on-Hudson, N. Y.: Illustrated Bible with covers of olive wood (142373).
- LUNDELL, Dr. C. L. (See under University of Michigan, Department of Botany.)
- LUNZ, G. R., Jr., Charleston, S. C.: 620 amphipods from South Carolina and Florida (136494, 136946, 139500); 2 crabs (male type and female holotype of a new species) (138353); 6 isopods, 50 amphipods, 25 crabs, 2 porcellanids, 3 shrimps, 1 marine annelid, 2 fishes, and 3 echinoderms (142577). (See also under Charleston Museum.)
- LUTE, ANNA M. (See under Colorado Seed Laboratory.)
- LYNCH, Dr. J. E., Seattle, Wash.: 16 specimens (8 males and 8 females) of a new species of phyllopod from Grant County, Wash., to be described by the donor (142496); 4 fishes from Lake Washington, King County, Wash. (143130).
- LYNCHBURG SESQUICENTENNIAL ASSOCIATION, Lynchburg, Va.: (Through the Treasury Department, Bureau of the Mint) Lynchburg, Va., Sesquicentennial half-dollar, 1936 (142670).
- LYNN, Dr. W. G., Baltimore, Md.: 25 amphipods, 40 isopods, 8 shrimps, 30 porcellanids, 59 crabs, 80 hermit crabs, 4 earthworms, 10 marine annelids, 2 fishes, 38 bats, 162 insects, 17 echinoderms, and 3 mollusks from Jamaica (138457, 139728); 34 frogs (types and paratypes of 2 new species) from Jamaica (142534).
- LYON, Dr. M. W., Jr., South Bend, Ind.: 1 least weasel from Wells County, Ind. (142043); 1 flying squirrel from Marshall County, Ind. (143566).
- LYONNET, Prof. E., Mixcoac, D. F., Mexico: 450 plants from Mexico (143403).

- MAAS, A. E., Compostela, Nayarit: 66 miscellaneous insects (140943).
- MAAZ, Dr. T. B., Maracaibo, Venezuela: 3 mosquitoes (141222).
- MACCALLUM, Dr. W. G., Baltimore, Md.; Biographical sketch and portrait of, as well as 3 volumes of notes and drawings of parasites by, Dr. George A. MacCallum (141693).
- MACDOUGALL, T., New York City: 37 fishes and 1 crustacean from southern Mexico (137392).
- MACGINITIE, G. E., Corona Del Mar, Calif.: 18 amphipods, 17 isopods, 10 copepods (140048); 100 amphipods (142021).
- MAGYAR NEMZETI MUSEUM, Budapest, Hungary: 31 mineral specimens from Hungary (140178, exchange); (through Dr. Victor Zsivny) 1 specimen of barbierite and 1 specimen of veszelyite (140882, exchange).
- MALTBIE CHEMICAL CO., Newark, N. J.: A 4-ounce specimen of calcium creosote, U. S. P. XI (140014).
- MANN, J. H., Whitesboro, N. Y.: Pre-stamp cover dated 1831 and franked by Postmaster A. Mann, Jr., Fairfield, N. Y. (141185).
- MANN, L. K., Moscow, Idaho: 22 plants from Idaho (142249).
- MANOHA, JACQUES. (See under Houbigant, Inc.)
- MARBLE, Dr. J. P., Washington, D. C.: 1 specimen of analyzed powder of monazite from Mars Hill, N. C. (140603); 1 specimen of allanite from Whiteface Mountain, Essex County, N. Y. (141211); 1 specimen of analyzed powder of pitchblende from Great Bear Lake, Canada (143131); 1 specimen of galena-chalcopyrite ore and analyzed powder from LaBine Point, Great Bear Lake (143741).
- MARKUS, H. C. (See under U. S. Department of Commerce, Bureau of Fisheries.)
- MARSHALL COLLEGE, Huntington, W. Va.: (Through Dr. F. A. Gilbert) 100 plants from West Virginia (142869, exchange).
- MARSHALL, B. C., Imboden, Ark.: 48 beetles (33 species) (88141); 9 termites from Arkansas (139637); 20 bugs (139680); 2 ascidians and 5 barnacles (140816); 6 fishes (140845); 12 fishes from Black River at Powhatan, Lawrence County, Ark. (141660, 142320); 2 insects (142065); 124 Upper Canadian fossils from the Black Rock and Smithville formations of Lawrence County, Ark. (143052); 2 parasitic worms (143873).
- MARSHALL, E. B., Laurel, Md.: 1 bird skin (143398).
- MARSHALL, ERNEST and HENRY, Laurel, Md.: 16 fishes from Laurel collected May 30-31, 1899 (143661).
- MARSTEN, FRANCIS, Washington, D. C.: 1 Watkins Bee-exposure meter (142666).
- MARTIN, Prof. G. W. (See under State University of Iowa.)
- MARTIN, JOEL, Gainesville, Fla.: 18 amphipods from "Gum Tree Cavern" in Citrus County, Fla. (142913); 23 amphipods (143477, 143733); 1 amphipod (143824, exchange).
- MARTIN, L. M., Los Angeles, Calif.: 4 Lepidoptera, all paratypes (141208).
- MASARYK UNIVERSITY OF BRNO, *Botanical Institute*, Brno, Czechoslovakia: 100 plants from Czechoslovakia (Century XII) (143546, exchange).
- MASON, J. F., Princeton, N. J.: 120 invertebrate fossils from the Middle Cambrian, Maryville formation, Thorn Hill, Tenn. (143078).
- MATHIAS, Dr. MILDRED E., Berkeley, Calif.: 6 plants from the United States (142054).
- MATTOON, W. R. (See under U. S. Department of Agriculture, Forest Service.)
- MATUDA, E., Escuintla, Mexico: 662 plants from Mexico (140464).
- MATUMOTO, T., Tokyo, Japan: 2 specimens of ammonites from the Cretaceous deposits of Japan (143653).
- MAUGHAN, Maj. R. L., Washington, D. C.: The "Flying Mercury" insignia and 2 instruments from a Spad airplane in which the donor achieved four victories during the World War; also a map and other data illustrating his transcontinental flight of 1919 and the "Dawn to Dusk" transcontinental flight of 1924 (144269, loan).
- MAXWELL, JEAN E., Marion, N. C.: 1 moth from North Carolina (144153).
- MAXWELL, MARY, Washington, D. C.: Swiss watch that won first prize at the Paris Exposition in 1900, sapphire bracelet from Ceylon, and gold ring with jade inset presented to Miss Maxwell by Li Hung Chang (142074).
- MAYER, FRITZ, Hamburg, Germany: 3 fishes (140709); 4 fishes from the Amazon and South Brazil (142067).
- MCATEE, W. L. (See under U. S. Department of Agriculture, Bureau of Biological Survey.)
- MCCALLUM, LEROY, Norwood, Pa.: Model, $\frac{1}{8}$ size, of the Curtiss "Hell-diver" airplane, a current U. S. Navy observation type designated as "O-2-C-1" (140332, loan); model, $\frac{1}{8}$ size, of the current U. S. Naval observation seaplane "Vought O-3-U-3" (141285, loan).

- McCLARY, G. A., Rapidan, Va.: 2 insects (140309).
- McCORMICK, Mrs. MINNIE, Wamsutter, Wyo.: 1 lot of dakeite from Wamsutter (143819).
- McCORMICK-GOODHART, L., Silver Spring, Md.: Modern coins and medalets of England and Ireland and medieval seals of Italy (142295).
- McCREARY, R. H., Oakland, Calif.: Winchester lever action repeating shotgun patented 1886, presented in memory of the donor's father, Robert H. McCreary, and his sister, Laura May McCreary Epler (142319).
- McDANIEL, BUD, Snowball, Ark.: (Through L. G. Henbest) Chert knife blade, stemmed, found near Granny Mountain, about 1½ miles southeast of Snowball (143198).
- McDUNNOUGH, Dr. J., Ottawa, Canada: 5 Lepidoptera, all paratypes of a new species (142037, exchange).
- McGLAMERY, WINNIE. (See under Dr. W. B. Jones.)
- McGREGOR MEMORIAL MUSEUM, Kimberley, South Africa: Stone implements from various localities in Cape Province, South Africa (141245, exchange).
- McINTOSH, Prof. A. C., Rapid City, S. Dak.: 1 beetle (140656).
- McKEE, Prof. J. C., State College, Miss.: 1 plant from Mississippi (140542).
- McKENZIE, H. L. (See under Citrus Experiment Station.)
- McKINNON, W. C., Washington, D. C.: 7 catalogs used at the annual conventions of the International Steel and Copper Plate Printers Union of North America during the period 1912 to 1925 and containing many fine examples of engraving (141767).
- McLAUGHLIN, J. L., Whiting, Ind.: Short section of steel-capped railroad rail (142468).
- McNARY, L. A., Portland, Oreg.: Pair of Iroquois moccasins (139958).
- McRILEY, CHARLIE, Fallon, Nev.: Buckskin sandal and fragments of tule matting and coiled basket found in a guano cave 16 miles southeast of Fallon, Churchill County, Nev. (139786).
- MEDCOF, J. C., Urbana, Ill.: 16 amphipods from London, Ontario (141118); 8 amphipods (141318).
- MEJORADA, C. S., Jr., Mexico City, D. F.: 1 bird (144273).
- MELHASE, JOHN, Berkeley, Calif.: 4 jars natural brines and salt crystals, 4 crystals of glauberite, 1 large specimen showing garnet crystals in limestone being replaced by wollastonite, 1 large slab showing garnet crystals, and 1 rogersite specimen (142556, exchange); 1 specimen of melanite from near Garnet Hill, Calaveras County, Calif. (144274, exchange).
- MELL, Dr. C. D., New York, N. Y.: 11 plants from Panama (141736).
- MENAGH, Dr. F. R., Detroit, Mich.: Sailor's knife with marline-spike (140955).
- MENDES, L. O. T., Campinas, Brazil: 19 Hemiptera (13 species in 5 families) (142977, exchange).
- MENDONCA, L. F. de S., Fortaleza, Brazil: 31 insects (139404).
- MERCER COUNTY COLUMBIAN CLUB, Aledo, Ill.: Male Indian skull found by C. N. Winger in 1908 on the plains west of Pierre, S. Dak. (142875).
- MERGENTHALER LINOTYPE CO., Brooklyn, N. Y.: 1 print of a photograph of the inventor Ottmar Mergenthaler (144095).
- MERRIAM, Dr. C. W., Ithaca, N. Y.: 2 Devonian brachiopods from Grund, Harz, Germany (142286, exchange).
- MERRILL, Dr. E. D. (See under Harvard University, Arnold Arboretum.)
- MERRILL, GERTRUDE H., Arlington, Va.: Ethnological specimens from the Ndaou tribe, Portuguese East Africa and Southern Rhodesia, collected by the donor (142072).
- MERRIMAN, DANIEL, Cambridge, Mass.: 1 large wolf-fish (140702).
- METZGER, J. E. (See under C. C. Astle.)
- MEXIA, Mrs. YNES, Berkeley, Calif.: 3 plants collected in Brazil (142920); 1 plant from Chile (142921); (through Mrs. H. P. Bracelin) 13 plants from Mexico and South America (142548).
- MEYER, Dr. TEODORO, Fontana, Argentina: 8 plants from Argentina (144087).
- MEYER, WILLIAM, Westernport, Md.: 1 red salamander from Middle Ridge, Savage River State Forest, Garrett County, Md. (141298).
- MICHELSON, Dr. TRUMAN, Washington, D. C.: 8 wolf teeth from Cape Henrietta Maria, Canada (144022).
- MICHIGAN, UNIVERSITY OF, Ann Arbor, Mich.: (Through W. C. Frohne) 50 insects (140860).
Department of Botany: (Through Dr. C. L. Lundell) 169 plants from the Yucatan Peninsula (141373, exchange); 234 plants, mostly collected in Chiapas by E. Matuda (143677, exchange).
Museum of Zoology: (Through Mrs. H. T. Gaige) 3 frogs from Fundacion, Colombia (141647); 6 frogs from Buenavista, Bolivia (144192, exchange).

- MILLE, Rev. LUIS, S. J., Guayaquil, Ecuador: 3 plants from Ecuador (142203, 143439).
- MILLER, Dr. C. E., Bethlehem, Pa.: Model illustrating the action of the lymph pump patented by the donor April 19, 1932, and used to produce normal circulation of the body fluids (140010).
- MILLER, DAN, Pickwick Dam, Tenn.: 7 Devonian trilobites from Pickwick Dam (143113).
- MILLER, G. S., Jr., Washington, D. C.: 1 box turtle from Shadyside, Md. (144138). (See also under Smithsonian Institution, National Museum.)
- MILLER, Mrs. LLOYD. (See under Dr. J. J. Wells.)
- MILLER, Prof. R. C., Seattle, Wash.: 9 shipworms from Hawaii (139972).
- MINISTERIO DE AGRICULTURA Y COMERCIO, Bogota, Colombia: 108 plants from Colombia (142314, exchange).
- MINNESOTA, UNIVERSITY OF, Minneapolis, Minn.: (Through J. W. Gruner) 16 hand specimens of representative rocks of the iron ranges and adjoining country of Lake Superior region (142243).
- MIRANDA-RIBEIRO, Dr. A., Rio de Janeiro, Brazil: 2 frogs from Rio de Janeiro (142218, exchange); 4 frogs from Paraguay and Brazil, including paratypes of 2 species (144038, exchange).
- MISSOURI BOTANICAL GARDEN, St. Louis, Mo.: 310 plants from Wyoming and Colorado (140293, exchange); 182 plants (140580, exchange); 26 lichens from Hispaniola (142867, exchange); 910 plants, mainly from Arkansas and Missouri (143458, exchange); 10 ferns from Costa Rica (143854, exchange).
- MITCHELL, C. T., Washington, D. C.: Sword, meat hook, and trumpet used on the Confederate dispatch boat *Planter* during the Civil War (144238).
- MOISANT, MATILDE, Montrose, Calif.: A copper placque commemorating the cross-channel flight of John Moisant from Paris, France, to Ichtham, England, August 1910 (140711).
- MOLDENKE, Dr. H. N., New York City: 3 photographs of plants (143417); photograph of Linnaean type specimen of plant (143648).
- MONTOYA, VICTOR. (See under Museum of Natural History.)
- MONTVILLE, ALFRED, Middletown, Ohio: Incomplete skeleton of an infant less than 4 months of age, probably Indian, from a Fort Ancient site, 4 miles from Middletown (143442).
- MOORE, ARTHUR, Baltimore, Md.: 7 specimens of tremolite from Loch Raven, Md. (143183).
- MOORE, G. C., Auburn, Ala.: 52 reptiles and amphibians from Alabama (142649).
- MOORE, PAT, Galveston, Tex.: Half-model of open, sport-fishing, tuna boat, designed and built by the donor (144172).
- MOORE, Dr. R. D. (See under Prof. G. C. Stukey and the Rowan Printing Co.)
- MORRIS, A. W., Parral, Chihuahua: 4 specimens of cerargyrite from the Balleza district, Nevazantes mine, Chihuahua, Mexico (143144).
- MORRIS ARBORETUM, Chestnut Hill, Philadelphia, Pa.: 20 plants from Eastern United States (140868, exchange).
- MORRISON, B. Y. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- MORRISON, ELLA J., Washington, D. C.: A scotch paisley shawl, period of 1875 (142876).
- MORRISON, J. L., Berkeley, Calif.: 86 plants from Minnesota (140290).
- MORRISON, Dr. J. P. E., Washington, D. C.: 1,000 mollusks, 170 insects, 2 crustaceans, 31 salamanders from Virginia, West Virginia, and New York (140333); 500 mollusks, 25 crustaceans, 145 insects, 170 fishes, 10 reptiles and amphibians from Virginia (140883); (with Ripley Buckingham and Sui Fong Chen) 225 land mollusks, about 30 insects, and 18 salamanders from Loudoun County, Va. (141642); (with Irving Fox) 255 land mollusks, 30 insects, and 3 salamanders from Rappahannock and Page Counties, Va. (141643). (See also under Dr. Paul Bartsch and Smithsonian Institution, National Museum.)
- MORTON, Mrs. ELLEN, New York City: Plaster mold of a bust, made by Augustus Saint-Gaudens, of Dr. William T. G. Morton, who introduced practical ether anesthesia (143119).
- MOZLEY, Dr. ALAN. (See under Walter Rathbone Bacon Scholarship.)
- MUIR-WOOD, HELEN M. (See under British Government, British Museum.)
- MUNROE, Mrs. KATHERINE, Washington, D. C.: 5 earthenware bottles and jars from unknown sites in Peru and Panama (142349).
- MURIE, O. J., Seattle, Wash.: 3 skulls of children (one with lower jaw) from Tanunak Village, Nelson Island, Alaska, found in shallow graves covered mostly with a slight sod, moss,

- and roots, with rocks and driftwood placed on top and blue beads present (141294).
- MURILLO, L. M., Bogota, Colombia: 4 amphipods from Colombia, 135 miscellaneous insects, and 10 mollusks (140810).
- MURPHY, Mrs. IRENE, Washington, D. C.: 1 marine shell from the Severn River, Md. (140704).
- MURRAY, Mrs. J. H., Washington, D. C.: 2 red-white-and-blue cotton-and-wool, handwoven coverlets in over-shot-weave star patterns purchased by the lender in Frederick, Md. (144093, loan).
- MURRELL, Dr. W. A., Gainesville, Fla.: 206 miscellaneous insects and 15 galls from Florida (138725, 140944, 140964, 141280, 141794); 3 isopods, 15 insects, and 1 slug (142513).
- MUSEO ARGENTINA DE CIENCIAS NATURALES, Buenos Aires, Argentina: 52 plants (142104, exchange).
- MUSEO NACIONAL DE CIENCIAS NATURALES, Madrid, Spain: (Through Morales Agacino) 35 small mammals from Spain, Persia, and Morocco (140055, exchange).
- MUSEU PAULISTA, São Paulo, Brazil: (Through Dr. H. P. Cardozo) 64 frogs from Brazil (136980).
- MUSEUM NATIONAL D'HISTOIRE NATURELLE, Paris, France: 50 plants from Indo-China (140035); (through Dr. A. Guillaumin) 4 plants from France (141780). All exchange.
- MUSEUM OF LA PLATA, *Department of Botany*, La Plata, Argentina: 200 plants from Argentina (144115, exchange).
- MUSEUM OF NATURAL HISTORY, Caracas, Venezuela: (Through Victor Montoya) 42 miscellaneous beetles (142016).
- MUTCHLER, A. J. (See under American Museum of Natural History.)
- MYERS, C. F., Baltimore, Md.: 1 ocean sunfish caught off Manteo, N. C. (144043).
- MYERS, Dr. G. S., Stanford University, Calif.: 1 fish (139960); 1 box tortoise from the District of Columbia (139974); 27 fishes and 4 tadpoles from Greenfield Lake, Wilmington, N. C. (140231); 1 hydroid, 12 shrimps, 15 mollusks, 60 insects (140670); 5 fishes from Hot Creek, Upper Owens River Valley, Calif. (140713); 1 fish from the Bumhoret River, India (140714); 19 fishes from Haiti, collected by R. M. Bond (140754); small miscellaneous collection of amphibians (140790); 1 fish from aquarium (140949); (with Stuart Abraham) 21 crayfishes, 10 shrimps, 1 leech, 3 frogs, 12 mollusks, and 7 insect larvae from Dismal Swamp, Va. (140280).
- NADEAU, Mrs. E. H., Wichita, Kans.: 17 ostracods from the Fayetteville shale, near Locust Grove, Okla. (139933).
- NARODNI MUSEUM, Prague, Czechoslovakia: (Through Dr. Jan Koliha) Collection of Devonian invertebrate fossils from classic localities in Bohemia (140953, exchange).
- NATIONAL GEOGRAPHIC SOCIETY, Washington, D. C.: Gondola of world's record altitude balloon *Explorer II*, which on November 11, 1935, manned by Cpts. Stevens and Anderson, U. S. Army, reached an altitude of 72,395 feet above sea level (144263); (through H. B. Collins, Jr.) collection of archeological, skeletal, and natural-history material from northern Alaska, collected by the National Geographic Society-Smithsonian Institution Archeological expedition to Bering Sea (141349).
- NATIONAL HERBARIUM, *Botanic Gardens*, Sydney, New South Wales: 3 plants (143405, exchange).
- NATIONAL HERBARIUM OF CANADA, Ottawa, Ontario: (Through Dr. A. E. Porsild) 136 plants from Canada (140718, exchange).
- NATIONAL MUSEUM OF AUSTRALIA. (See under Leo Stach.)
- NATIONAL MUSEUM OF CANADA, Ottawa, Ontario: 635 plants from northwestern Canada (142551, exchange); 71 brachiopods from the Ozarkian and Canadian periods (144105); (through C. M. Sternberg) cast of the right ramus of a dinosaur from the Upper Cretaceous of Canada (142229).
- NATIONAL SOCIETY OF THE SONS OF THE AMERICAN REVOLUTION, Washington, D. C.: R. O. T. C. medal and World War service medal of the type awarded by the Society (141691).
- NATLAND, M. L., Long Beach, Calif.: 29 slides of recent Foraminifera, including 25 types of new species and 1 type of a new variety, and 7 slides representing 7 new species of fossil Foraminifera (140907).
- NATURHISTORISCHES MUSEUM, Vienna, Austria: 19 bird skins, forms new to the collection (142563, exchange); 257 plants from South America (143209, exchange).
- NATURHISTORISCHES MUSEUM FISCHSAMMLUNG, Vienna, Austria: (Through Dr. Victor Pietschmann) 43 fishes (143034, exchange).

- NATUR-MUSEUM SENCKENBERG, Frankfurt-am-Main, Germany: 4 casts of types of trilobite from the Ordovician of Estonia (142518); (through Dr. Rudolf Richter) 59 brachiopods from the Devonian rocks of Germany (141772, exchange).
- NEBRASKA STATE HISTORICAL SOCIETY, Lincoln, Nebr.: (Through Dr. W. R. Wedel) 4 turkey bones from the Leary Village site, 4 miles southeast of Rulo, Richardson County, Nebr. (143662).
- NEEDHAM, Prof. C. E., Socorro, N. Mex.: Radius, ulna, and distal end of humerus of fossil turkey from New Mexico (142377).
- NEEDHAM, Dr. P. R., Stanford University, Calif.: 11 amphipods (13990).
- NELIGH, J. P., Washington, D. C.: 1 copper luster pitcher, 1 Irish Belleek pitcher and spoon, 2 Sandwich pressed-glass cup plates, and 1 Sandwich opalescent glass knob (140884).
- NELSON, A. L. (See under U. S. Department of Agriculture, Bureau of Biological Survey.)
- NELSON, G. T., Corpus Christi, Tex.: 2 half-models of vessels designed and built by the donor (144186).
- NESSER, Dr. H., Giessen, Germany: 1 plant (140315, exchange).
- NEVEL, W. D., Andover, Maine: 1 specimen of montebasite (hebronite) from Hebron, Maine (142906).
- NEVIN, F. R., Ithaca, N. Y.: 15 crayfishes from New York State (142273).
- NEWBOURG, SIDNEY, New York City: Photograph of Abraham Lincoln from a negative made by Moses P. Rice in Washington, D. C., in 1864 (143846).
- NEW JERSEY AGRICULTURAL EXPERIMENT STATION, New Brunswick, N. J.: (Through C. S. Beckwith) 6 insects from New Jersey (140858); 2 scale insects (2 species) (142068); 8 weevils (143838).
- NEWMAN, Mrs. EDITH B., Landover, Md.: Tortoise-shell Spanish comb hand-carved by a shell worker in Venezuela, who copied the design from a painting made by the donor when a young girl (143129). (See also under Mary Newman.)
- NEWMAN, MARY: (Through Mrs. Edith B. Newman) Early 19th-century, bleached-cotton quilt, appliqued in green and turkey-red tulip pattern, from Somerset County, Ky. (141830).
- NEW YORK BOTANICAL GARDEN, New York City: 70 specimens and a photograph of ferns from Florida (139952, 139976, 143100, 143584; exchange); 1 plant collected by Krukkoff 140574, exchange); 10 photographs of plants (140787, exchange); 1,584 plants from Hainan, China (141125, exchange); 100 plants collected in South Australia by C. Walton (142394, exchange); 200 plants (143864, exchange); (through Dr. J. K. Small) 3 photographs of ferns from Southeastern United States (140785, exchange).
- NEW YORK, COLLEGE OF THE CITY OF, New York City: (Through Dr. A. B. Klots) 9 Lepidoptera (2 species) (143088).
- NEW YORK STATE COLLEGE OF FORESTRY, Syracuse, N. Y.: 70 wood samples and 154 mounted herbarium specimens of trees of the United States (144157, exchange).
- NEW YORK STATE MUSEUM, Albany, N. Y.: Collection of slides of European fossil Foraminifera and ostracods, with 4 notebooks on the same, representing the balance of the T. Rupert Jones collection (142517, exchange); collection of 2,910 fossil plants and animals from England, France, and Italy (142652, exchange).
- NEW YORK ZOOLOGICAL SOCIETY, New York City: (Through Dr. William Beebe) 2 fishes (143396).
- NEY, FERDINAND, Washington, D. C.: 1 marlin swordfish taken 40 miles off Ocean City, Md. (140605).
- NICÉFORO-MARIA, Rev. Brother, Bogota, Colombia: 8 fishes from Cucuta, Colombia (141136).
- NICHOLS, Mrs. FRANCES S., Washington, D. C.: Hand-woven "tufted" work counterpane, said to have been made in Georgetown, D. C., in 1812, by the lender's great-grandmother, Mrs. George Walker (144044, loan).
- NICOLSON, BETTY B. (See under Mrs. P. S. Bond).
- NININGER, H. H., Denver, Colo.: 1 specimen of the Hawks Springs, Wyo., meteorite (87 grams) (144191, exchange).
- NIXON, Dr. G. E. J. (See under British Government, British Museum.)
- NOBLE, Dr. A. E., Stockton, Calif.: 2 trematodes (141272).
- NORMAN, HERBERT, Lodi, N. J.: 2 baroque pearls (139906); 3 valves of mollusks (140085).
- NORTH CAROLINA, UNIVERSITY OF, *School of Agriculture and Forestry*, Raleigh, N. C.: Small collection of ants from St. Pauls, Robeson County, N. C. (139993).
- NORTH DAKOTA, UNIVERSITY OF, Grand Forks, N. Dak.: (Through Joe Davis) 3 small vials of coccids (143117); (through Prof. G. C. Wheeler) 4 parasitic worms and a small collection of mites (142540).

- NORTHROP CORPORATION, Inglewood, Calif.: (Through J. K. Northrop) Model, $\frac{1}{8}$ size, of the Northrop BT-1, a current type of U. S. Navy Dive Bomber airplane (143169).
- NORTHROP, J. K. (See under Northrop Corporation).
- NOYES, ANNA I., Binghamton, N. Y.: 20 combs, photographs, daguerreotypes, etc., personal mementos of Joseph P. Noyes, father of the donor, who established the manufacture of horn combs in Binghamton, N. Y., in 1865 (141119).
- NOYES, MRS. ROSE L., Binghamton, N. Y.: One "Standard" chain-stitch, hand sewing machine, patented July 14, 1870 (141109).
- NYLANDER, O. O., Woodland, Maine: 3 poseidon balls from Aroostook County, Maine (143076).
- OEHMANN, Col. J. W. (See under District of Columbia National Guard.)
- OHIO STATE UNIVERSITY, *Department of Geology*, Columbus, Ohio: (Through Dr. Grace A. Stewart) 27 ostracods from the Devonian Silica shale of Ohio (143463, exchange).
- OJENA, MORRIS, Los Angeles, Calif.: 1 fly larva (141650).
- OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE, Stillwater, Okla.: (Through Prof. E. C. E. Sanborn) 9 mosquitoes (2 species) (140771).
- OKLAHOMA, UNIVERSITY OF, Norman, Okla.: 162 plants from Southwestern United States (144140, exchange); (through Prof. Milton Hopkins) 180 plants from Oklahoma (142013, exchange).
- O'LEARY, A. L., Washington, D. C.: 1 red-shouldered hawk from the District of Columbia, collected by Harry Reynolds (141236).
- OLIVER, O. J., Rock Point, Md.: 6 fishes from Neal Sound, Potomac River at Cobb Island, Md. (141137).
- OLSOUFF, G. W., Tananarive, Madagascar: 1 weevil (139094).
- OLSSON, A. A., Gloversville, N. Y.: 3 carapaces and 1 claw of fossil crab from the middle Oligocene of northwestern Peru (139509).
- OOSTING, H. J. (See under Duke University.)
- ÕPIK, Prof. A., Tartu, Estonia: 16 Ordovician and Devonian Ostracoda from Estonia (142033).
- OREM, MRS. DELIA B., Cambridge, Md.; MRS. CARRIE B. WEBSTER; and the children of ALEXANDER SHEPARD BAYLY: A gig phaeton, of the period about 1860 (141723).
- ORTH, FRANK, Flushing, Long Island, N. Y.: Parts of a shipboard wireless telegraph transmitter (nearly complete) of the period 1912 to 1915 (139284).
- OTAGO, UNIVERSITY OF, *University Museum*, Dunedin, New Zealand: (Through Dr. W. B. Benham) Portion of Morven, New Zealand, meteorite (113 grams) and cast of entire meteorite (140922, exchange).
- OUGHTON, J. (See under Royal Ontario Museum of Zoology.)
- OVER, EDWIN, Colorado Springs, Colo.: Sample of gold ore showing free gold and fine-grained gold telluride from Logan mine, Boulder County, Colo. (142232); 4 specimens of thorite and 2 of prosopite (144165, exchange).
- OXFORD UNIVERSITY, *Imperial Forestry Institute*, Oxford, England: (Through Dr. J. B. Davy) 65 plants from India and Africa (139943, exchange); 175 plants from India (140234, exchange).
- PACIFIC SCIENCE INSTITUTE OF FISHERIES, Vladivostok, U. S. S. R.: (Through Dr. A. Taranetz) 6 fishes (141562, exchange).
- PADGETT, THOMAS, Port Hobron, Alaska: (Through Dr. S. R. Capps) Stone adz from Port Hobron, Sitkalidak Island, near Kodiak Island, Alaska (142494).
- PAGE, MRS. ELIZABETH F., Nashville, Tenn.: Silk shawl worn by Mrs. Macon Starr at the ball in New York City on the occasion of the first inauguration of George Washington as President of the United States, April 30, 1789 (141066).
- PAMPLIN, J. W. (See under Southern Phosphate Corporation.)
- PARAVICINI, Dr. EUGEN, Basel, Switzerland: 222 mollusks (32 species) from Java and Sumatra (141638, exchange).
- PARISH, Col. S. W., Miami, Fla.: 129 land shells from the West Indies (143172).
- PARKE, DAVIS & Co., Detroit, Mich.: 60 specimens illustrating the preparation and use of adrenalin (142198).
- PARKER, F. W., Wilmington, Del.: Specimen of gum from an unknown plant collected at Apalachicola, Fla. (141746).
- PARKER, Dr. R. R. (See under Treasury Department, Public Health Service.)
- PARKS, Dr. H. B., Corpus Christi, Tex.: 2 stomatopods, 11 crabs, 5 shrimps, 2 hermit crabs, 3 Callianassas, 3 hip-pas, 5 medusae, 3 barnacles, 4 alcyonarians, and 9 echinoderms (141317).

- PARLIN, J. C., Buckfield, Maine: 2 fungi (141631).
- PATTERSON, Mrs. ISABEL G., Columbus, Ga.: Earthenware vessel (dog effigy) found with skeleton at Bull Creek burial site near Columbus, Ga., during 1936 excavations of Chattahoochee Valley Archaeological Survey (141205, loan).
- PAUL, Rev. Brother, Panama, Panama: 16 plants from Panama (143431).
- PAWLOWSKI, Dr. B., Krakow, Poland: 90 European plants (144032, exchange). (See also under Jagellonian University.)
- PEARSE, Prof. A. S., Durham, N. C.: 34 mammals from Yucatan (140812).
- PEARSON, J. C. (See under U. S. Department of Commerce, Bureau of Fisheries.)
- PEARSON, Prof. J. F. W., Miami, Fla.: 7 spiders and 13 egg masses collected in Florida (140981).
- PEARSON, Mrs. L. M., Washington, D. C.: 1 catbird (143861); 1 robin (144099).
- PEASE, W. A., Jr., New York City: A laurel wreath presented to the aviator Calbraith Perry Rodgers by the city of Long Beach, Calif., where he completed the first airplane flight across the United States in 1911 (142291).
- PECHUMAN, L. L., Ithaca, N. Y.: 1 fly (142850).
- PEEBLES, R. H. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- PEEK & VELSOR, Inc., New York City: 1 specimen each of quince seed, witch-hazel bark, and ipecac root (143420).
- PEET, Dr. M. M., Ann Arbor, Mich.: 1 pair of long-billed marsh wrens (139338, exchange).
- PENDLETON, Mrs. ANNE M., Bangkok, Siam: 1 cloisonné porcelain plate and 1 decorated porcelain cup, Chinese (140744).
- PENICK, S. B., & Co., New York City: 1 globe map designed to show the source of certain vegetable drugs (143104); 5 specimens of vegetable drugs for the materia medica collection (143413).
- PENNINGS, Rev. G. J., Muscat, Arabia: 2 tailless whipscorpions from Arabia (139939).
- PENNINGTON, CHARLES. (See under the U. S. Department of Agriculture, Office of Experiment Stations.)
- PENNSYLVANIA GEOLOGICAL SURVEY, Harrisburg, Pa.: (Through Dr. Bradford Willard) 11 invertebrate fossils from Devonian (Tully) limestone of Pennsylvania (143805).
- PENNSYLVANIA STATE DEPARTMENT OF AGRICULTURE, Harrisburg, Pa.: 11 insects (142219).
- PEPPER, Dr. J. L., South Portland, Maine: 1 lot of vesuvianites and other minerals from Maine (142638, exchange).
- PERKINS, C. B., San Diego, Calif.: 10 isopods, 4 ticks, and 1 land planarian from Java (140967).
- PERRYGO, W. M., Washington, D. C.: 3 fishes from Broad Creek, near Fort Washington, Md. (140758); 1 bird skin (143399). (See also under Smithsonian Institution, National Museum.)
- PETELOT, Prof. A., Hanoi, French Indo-China: 207 plants (142014).
- PHALEN, Mrs. J. M., Washington, D. C.: Decorated woven-grass bag, Nez Perce Indians, presented to Maj. Frederick W. Sibley, the donor's father, by William F. Cody (Buffalo Bill) (143750).
- PHILIP, Dr. C. B., Hamilton, Mont.: 5 flies (2 species), including paratypes (142879, exchange).
- PHILLIPS ACADEMY, Andover, Mass.: 12 earthenware bowls from Pecos pueblo, Pecos, N. Mex. (140848, exchange).
- PICKEL, Dr. BENTO, Pernambuco, Brazil: 77 plants from Brazil (141599, 142006, 142915).
- PICKENS, A. L., Paducah, Ky.: 1 box turtle from the Savannah River Valley (143127).
- PIERCE, MARY E., Washington, D. C.: 21 mosses, mainly from Virginia (144232).
- PIERCE, Mrs. RAY, Otter, Mont.: 1 insect (140254).
- PIETSCHMANN, Dr. VICTOR. (See under Naturhistorisches Museum Fischsammlung.)
- PIJPER, Dr., Kimberley, South Africa: Stone digging-stick weight from Lijdenburg, Transvaal, South Africa (141241).
- PINE, ANNIE, Catskill, N. Y.: "Patriotic" quilt, appliqued in a spread-eagle pattern with 28 stars on bleached muslin, made in Saratoga County, N. Y., 1846, by the donor's grandmother, Mary C. Nelson (143844).
- PITTIER, Prof. H., Caracas, Venezuela: 364 specimens and 8 photographs of plants from Venezuela (140982, 142279, 143106, 143780).
- PIZZINI, ANDREW, Washington, D. C.: 100 amphipods, 15 isopods, 1 flatworm, 2 insect larvae, and 5 mollusks from vicinity of Washington, D. C. (142503).

- PLANK, J. J., & Co., Appleton, Wis.: 2 sheets of water-marked paper, machine made from a Dandy Roll (141331).
- POITEVIN BROS., Pascagoula, Miss.: Half-model and take-off board of the motor boat *Lucelle*, designed by Ellwood C. Poiteven and built by the donors about November 1925 (144185).
- POLLEY, C. L., Washington, D. C.: 1 trunk section of the common castor-bean, grown on the premises of the donor (144078).
- PORSILD, Dr. A. E. (See under National Herbarium of Canada.)
- POST, Mrs. WILEY, Ponca City, Okla.: 4 aircraft instruments that were taken from the airplane piloted by Wiley Post in August 1935 (141278).
- POST OFFICE DEPARTMENT, U. S.: 22 sets of stamps (1,217 specimens) received by the Post Office Department from the International Bureau of the Universal Postal Union at Berne, Switzerland (139887, 139917, 140018, 140269, 140663, 140743, 140871, 140970, 141202, 141314, 141652, 141790, 142064, 142304, 142639, 143199, 143559, 143800, 143860); 3 copies each of the 3-cent Arkansas Centennial commemorative stamp, the 3-cent Oregon Territory commemorative stamp, the 3-cent Susan B. Anthony commemorative stamp, the 1-cent Army commemorative stamp, the 1 cent Navy commemorative stamp, the 2-cent Army commemorative stamp, the 2-cent Navy commemorative stamp, the 3-cent Army commemorative stamp, the 3-cent Navy commemorative stamp, the 4-cent Army commemorative stamp, and the 4-cent Navy commemorative stamp, all issued in 1937 (140216, 140295, 140890, 142555, 142622, 143116, 143767).
- POWELL, E. F., Lincoln, Nebr.: 4 beetles (139573).
- POWERS, PHILIP, Philadelphia, Pa.: 3 sea-urchins from Acapulco, Mexico (143551).
- PRICE, Dr. E. W., Washington, D. C.: 16 mollusks from Duchesne County, Utah (141600).
- PRICE, J. W., Lancaster, Pa.: 242 amphipods, 38 isopods, 2 shrimps, 7 flatworms, 1 insect, 22 hippas, 15 phyllo-pods (139899, 140222, 140526, 140726, 141265, 143476); 7 Ordovician starfishes from Swatara Gap, Pa. (141144).
- PRICH, META, Sebewaing, Mich.: A first milk molar of the mastodon (140217).
- PUBLIC LIBRARY OF THE DISTRICT OF COLUMBIA, Washington, D. C.: Bronze badges of the Grand Army of the Republic National Encampment held in Washington, D. C., in 1902 (25 specimens) (139884).
- PULTZER, JOSEPH, Matapedia, Quebec.: 1 Atlantic salmon (139913).
- PURCELL, J. A. (See under Estate of Maj. Gen. George O. Squier.)
- PURPUS, Dr. C. A., Veracruz, Mexico: 164 plants from Mexico (142078).
- PURVIS, Mrs. EDITH, Washington, D. C.: 84 mollusks from Virginia (141698, 141758).
- QUEENSLAND MUSEUM, Brisbane, Queensland: (Through H. A. Longman) 1 crayfish (topotype) from North Queensland (140877).
- RAILS, NANNIE M., Washington, D. C.: Nest and 5 eggs of Carolina wren (144108).
- RANSOME, Mrs. F. L., Pasadena, Calif.: Collection of ethnological objects consisting of drum, earthenware jars, paddle, and carved wooden seat, from the Lacandones of northern Guatemala, and an earthenware vessel from the Island of Flores, Lake Petén, Guatemala, collected by the donor's father, the late Miles Rock, about 1890 (143810).
- RAPPLEYE, ROBERT, Washington, D. C.: 2 plants from District of Columbia (140598, 142630).
- RARE METALS CORPORATION, Lovelock, Nev.: (Through O. F. Heizer) 4 specimens of tungsten ore showing scheelite and beryl, from Oreana, Nev. (143766).
- RAU, Dr. W., Rio Grande do Sul, Brazil: 9 plants from Brazil (141281, 142214; exchange).
- RAY, Dr. C. N., Abilene, Tex.: 4 skulls (one represented by a few fragments) from stone slab cist mounds along the Brazos river, Tex., about 30 miles northeast of Abilene (143448).
- RAY OIL BURNER Co., San Francisco, Calif.: A horizontal rotary oil burner of 1914 (141046).
- RAYLEY, M. W., Omaha, Nebr.: Copy of an illustrated paper entitled "Brother Jonathan", published by Wilson & Co., New York City, July 4, 1846 (142535).
- REAMS, J. M., Grampian, Pa.: Specimen of *Sigillaria* from the Coal Measures of Pennsylvania (143202).
- RECHINGER, Dr. KARL, Vienna, Austria: 8 plants (142586).
- RECTOR, K. B., Jr., Washington, D. C.: 1 great horned owl (143792).
- REED, Dr. E. P., Valparaiso, Chile: 545 miscellaneous insects from Chile (140661, 141190, 142395, 142653).
- REED, J. C. (See under Leo Yount.)
- REED, T. J., Chincoteague Island, Va.: Right mandible of a blackfish from Chincoteague Island (142505).
- REESE, Prof. A. M., Morgantown, W. Va.: 1 bat skin with skull from Morgantown (143475).

- REESE, Mrs. H. K., Memphis, Tenn.: 1 large threadfish taken at Key West, Fla., by the donor (142754).
- REEVES, Dr. S. W., Fort George G. Meade, Md.: 34 miscellaneous insects, 3 earthworms, 6 fresh-water snails, 6 slugs, and 2 frogs, all from the Philippine Islands (140105).
- REHDER, Dr. H. A., Washington, D. C.: About 480 land and fresh-water mollusks collected from New York (140881); 69 land and fresh-water shells (11 species) from Howard County, Md., and Fairfax County, Va. (144205).
- REID, E. D., Washington, D. C.: 1,363 fishes and 24 crustaceans from the north end of Neal Sound, Charles County, Md. (140920); 575 fishes, 3 frogs, 47 shells, 1 crayfish, 1 leech, 1 insect, and 20 tadpoles, from the Holston, Clinch, New Roanoke, and James River systems of southwestern Virginia (142005).
- REMINGTON-RAND, Inc., Washington, D. C.: 4 early typewriters—a Bar-Lock no. 4, a Remington-Sholes, an Automatic portable, and a Munson (140913).
- RHOADES, WILLIAM, Indianapolis, Ind.: 1 grasshopper (139070).
- RHODE ISLAND DEPARTMENT OF AGRICULTURE, *State Insectary*, Kingston, R. I.: Small collection of miscellaneous insects from Rhode Island (139170); 27 miscellaneous insects from Rhode Island (143736).
- RICE, JOHN, Beaufort, N. C.: 3 half-models of menhaden fishing boats designed and built by Whitehurst & Rice (144187).
- RICHARDSON, Prof. D. P., Fayetteville, Ark.: 1 slice of the Fayetteville, Ark., meteorite and a cast of the original specimen (141212, exchange).
- RICHMOND, UNIVERSITY OF, Richmond, Va.: (Through Prof. J. W. Bailey) 12 insects (140054).
- RICHTER, Dr. RUDOLF. (See under Natur-Museum Senckenberg.)
- RICKER, P. L. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- RJKSMUSEUM VAN NATUURLIJKA HISTORIE, Leiden, Netherlands: (Through Dr. H. Boschma) 6 crabs (142285).
- RICHTER, Dr. P. O. (See under University of Kentucky.)
- ROANOKE COLONY MEMORIAL ASSOCIATION, Manteo, N. C.: (Through U. S. Treasury Department, Bureau of the Mint) 5 specimens of the Sir Walter Raleigh half-dollar, 1937 (142668).
- ROBB, Prof. B. B., Ithaca, N. Y.: 4 pieces of U-shaped drain tile made and laid on the farm of John Johnston at Geneva, N. Y., in 1835 and said to be the first agricultural drain tile laid in the United States (144209).
- ROBBINS, J. W., Boston, Mass.: 3 Mezzobrule prints—"In Hartford, Connecticut", "The Charter Oak", and "The Gundy, Farmington, Connecticut" (144016).
- ROBERTS, C. C., Belmont, Mass.: Collection of African ethnological material from Dahomey, Cameroons, and Nigeria (141728).
- ROBERTSON, PAUL, College Park, Md.: Model, $\frac{1}{8}$ size, of the *Albatross D-3*, German pursuit plane of the World War (141764); model, $\frac{1}{8}$ size, of the German World War *Rumpler* airplane (143084).
- ROBINSON, EUGENE, Los Angeles, Calif.: Shell fishhook from San Miguel Island, southern California (136789).
- ROBINSON, Mrs. F. H., New York City: Rocking melodeon manufactured by A. Prescott, Concord, N. H., 1850 (143839).
- ROBINSON, MARK, Philadelphia, Pa.: 13 beetles (7 species, 4 new to collection) (144275).
- ROCH, Dr. FELIX, Rovigno d'Istria, Italy: 93 shipworms (140978).
- ROCHE, Mrs. J. H., Washington, D. C.: 14 specimens of French point applique, point d'Alencon and Valenciennes lace, and English Honitan lace (144254).
- ROCKEFELLER FOUNDATION, *International Health Division*, New York City: 13 fishes from Colombia (136219); (through Dr. H. W. Kumm) 10 mosquitoes (4 species) (144170).
- ROEBLING FUND, Smithsonian Institution: 10 specimens of tin and selenium minerals from Bolivia (138673); 1 azurite crystal from Tsumeb and 1 canfieldite specimen (140088); 1 slice of the Channing, Tex., meteorite (1,512 grams) (140091); collection of calcites, galenas, and sphalerites from the Tri-state district (140093); 1 piece of the Gladstone, N. Mex., meteorite (2,760 grams) and 2 pieces of the Hale Center, Tex., meteorite (no. 1, 186 grams; no. 2, 320 grams) (140577); specimen of the Mount Morris, Waushara County, Wis., meteorite (140736); 1 slice of the Loomis, Nebr., meteorite (225 grams) and 1 slice of the Morrill, Nebr., meteorite (87 grams) (140834); 1

- slice of the Farley, N. Mex., meteorite (925 grams) and 1 slice of the Spearman, Tex., meteorite (874 grams) (140869); 1 octahedral fluorite from Barstow mine, Colo. (140931); 1 mass of uraninite, 1 crystal of uraninite, and 1 specimen of uranophane and schroëckerite from North Carolina (141174); 5 crystals of topaz and bixbyite from Thomas Range, Juab County, Utah (141337); 4 crystal groups of bournonite, cronstedite, and spodumene (141338); end piece of the Shallowater, Tex., meteorite (141768); 1 specimen of ginorite on sandstone from Larderello, Italy (141871); 1 meteorite (pallasite) from near Antofagasta, Chile (142019); meteorite specimen from New Leipzig, N. Dak. (142031); collection of crystals of phenacite, basnaesite, topaz, and feldspar from Colorado (142310); collection of minerals and of crystals and crystal groups of epidote and garnets mainly from Prince of Wales Island, Alaska (142365); 1 specimen of the Grant County, Kans., meteorite (142564); 1 slice of Arriba, Colo., meteorite (967 grams) (142618); specimen of the Ute Creek, N. Mex., meteorite (177 grams) (143545); portion of the Harrisonville, Mo., meteorite (143578); 1 slice of the Tacubaya, Mex., meteorite (405 grams) (143693); 1 slice of Grady, N. Mex., no. 2 meteorite (143806); Chilean meteorite specimens (41 pounds) (144264).
- ROLLE, JANE, Washington, D. C.: 1 mourning dove (139967).
- ROLLINS, E. J., West Somerville, Mass.: An 18th-century mirror (141354).
- RORER, Mrs. J. B., Riobamba, Ecuador: 1 beetle (143892).
- ROTHROCK, J. T., Sang Run, Md.: 1 tree frog from Whites Knob, Md. (141297).
- ROWAN PRINTING Co., Salisbury, N. C.: (Through Dr. R. D. Moore) 1 copy of Chapman's "Reflexes" and wall chart for addition to osteopathic collection (140819).
- ROYAL ONTARIO MUSEUM OF PALAEOLOGY, Toronto, Ontario: (Through Dr. Madeleine A. Fritz) 10 species of Canadian Ordovician Bryozoa, including fragments of types and thin sections (144097).
- ROYAL ONTARIO MUSEUM OF ZOOLOGY, Toronto, Ontario: 6 chipmunks from Simcoe County, Ontario (140797, exchange); (through J. Oughton) 2 amphipods (141589).
- ROZEBOOM, L. E. (See under Gorgas Memorial Institute.)
- RUEHL, Col. V. E., Caldwell, N. J.: 2 plants (140818).
- RUIZ, Prof. FLAMINIA, Santiago, Chile: 23 beetles (142346).
- RUNYON, ROBERT, Brownsville, Tex.: 106 plants from Texas (143451, 143852, 144047).
- RUSSELL, J. B., Ennis, Tex.: Collection of sharks' teeth and other fossils from the Upper Cretaceous rocks at Richland, Tex. (144030).
- RUTGERS UNIVERSITY, New Brunswick, N. J.: 60 ferns from Jamaica (141308).
- SACK, H. M., Suva, Fiji: 3 rats from Fiji (140591).
- ST. JOHN, Dr. E. P., Floral City, Fla.: 4 ferns from Florida (143097, exchange).
- SAMELIUS, W. H. (See under Elgin National Watch Co.)
- SANBORN, Prof. E. C. E. (See under Oklahoma Agricultural and Mechanical College.)
- SANDERS, OTTYS, Dallas, Tex.: 9 hermit crabs, 4 shrimps, 2 stomatopods, 15 amphipods, 21 crabs from the Gulf Coast at Galveston, Freeport, and Aransas Pass, Tex. (141323); 3 amphipods (141740).
- SAN DIEGO STATE COLLEGE, San Diego, Calif.: (Through Mrs. Dorothy R. Harvey) 203 plants, mostly from Lower California (143136).
- SANDOVAL, C. A., Juayua, El Salvador: 2 butterflies (140823).
- SAN FRANCISCO-OAKLAND BAY BRIDGE CELEBRATION COMMISSION, San Francisco, Calif.: (Through U. S. Treasury Department, Bureau of the Mint) San Francisco-Oakland Bay Bridge commemorative half-dollar, 1936 (2 specimens) (142845).
- SARGENT, DONALD, Laurel, Md.: 2 black-widow spiders (141123).
- SARGENT, F. H., Washington, D. C.: 24 plants from New Hampshire (142049).
- SAUNDERS, Mrs. DONALD, Washington, D. C.: Pair of white satin slippers worn by Julia Ward on the occasion of her marriage to Dr. Samuel Gridley Howe, April 23, 1843 (144272).
- SCHENCK, Dr. H. G., Stanford University, Calif.: 22 fossil shells from Oregon and California (140929).
- SCHIEFFELIN & Co., New York City: 3 specimens of pharmacopoeial drugs (143849).
- SCHMID, E. S., Washington, D. C.: 1 marmoset monkey (140778); 2 masked lovebirds and 1 Java sparrow (141605); 1 European goldfinch (141702); 1 South American cardinal (141765); 1 parrot and 1 slate-colored solitaire (142225).

- SCHMIDT, K. P. (See under Field Museum of Natural History.)
- SCHMIDT, WILLIAM V., Co., Inc., New York City: 2 rough sapphires from Ceylon (142627).
- SCHOCK, HIRAM, Pittsburgh, Pa.: Framed silk portrait of Woodrow Wilson woven in 1918 at l'École Supérieure de Commerce, Lyon, France (142511).
- SCHOOFF, Mrs. S. E., Washington, D. C.: 1 sparrow hawk (140061).
- SCHOOL OF METALLIFEROUS MINING, Camborne, Cornwall, England: 61 miscellaneous rocks and minerals from Camborne (137786, exchange).
- SCHOUTEN, G. B., Asuncion, Paraguay: 16 fishes from Paraguay (131534).
- SCHROEDER, Dr. C. R. (See under Zoological Society of San Diego.)
- SCHUCHERT, Prof. CHARLES, New Haven, Conn.: 240 Mesozoic brachiopods (141783, exchange); 5 specimens of an unusual Devonian brachiopod (142160, exchange).
- SCHULTZ, Dr. L. P., Washington, D. C.: 1,037 fishes, from various localities in the North Pacific region and western North America and 33 marine invertebrates, 1 lot of echinoderms, 2 mollusks, 1 snake, and 1 lizard (141457); 17 fishes from Russia (142516); 190 fishes from Travancore, India, and Ceylon (143552); 77 fishes from the Philippines and 2 shrimps (143664). (See also under University of Washington.)
- SCRIPPS, W. E., Detroit, Mich.: 2 model airplanes, each $\frac{1}{8}$ scale, representing a Stinson *Detroit* and a Lockheed *Vega*, as used by Sir Hubert Wilkins in his Arctic explorations, 1927-28 (143571).
- SCULLY, Dr. F. J., Hot Springs, Ark.: 174 plants from Arkansas (142387, 142891); 47 plants from Eastern United States (143568).
- SECRETARIA DA AGRICULTURA DO ESTADO DE MINAS GERAES, Belo Horizonte, Brazil: 17 plants from Brazil (142007, exchange).
- SEIBERT, R. J., St. Louis, Mo.: 5 plants from Panama (139064).
- SEIFRIZ, Dr. WILLIAM, Philadelphia, Pa.: 2 ferns from the Dominican Republic (141286); 1 fern from Guadeloupe (141310); 7 ferns from Trinidad (141715); 12 ferns from Venezuela (142217); 2 plants from Guatemala (142654); 2 plants (143123).
- SEIN, FRANCISCO, Rio Piedras, Puerto Rico: 2 flies (holotypes) (143182).
- SELDEN, H. S., Washington, D. C.: A pen-and-ink drawing and a dollar bill, series of 1896 (142213, bequest).
- SEMMES, GRACE and ELEANOR, Washington, D. C.: Hand-woven "tufted" work counterpane, marked "S. S. F. 12", owned by the lenders' great-grandparents, Truman Tyler of Upper Marlboro, Md., and Grace Contee Harrison, his wife, who were married on January 4, 1798 (144091, loan).
- SEVERIN, Prof. H. C. (See under South Dakota State College.)
- SHANNON, Mrs. CAROLINE W., Washington, D. C.: A traveler's iron, heated by alcohol, used by donor between 1900 and 1933 (140780); 1 small triangular silk shawl, 1 specimen of "crepe work" on satin, 1 gold handkerchief holder, and 1 crochet hook used by the donor's mother (141187). (See also under Mrs. Eleanor W. Bisell.)
- SHANNON, R. C., New York City: 817 insects from Greece (140 Tabanidae, 475 muscoid Diptera, and 202 miscellaneous) (140250); 1 long-tailed salamander from a cave a quarter of a mile west of Plummerville Island on the Virginia side (140604); 1 salamander from Indian Cave, opposite Plummerville Island, Va. (140952).
- SHANNON, T. J. (See under Mrs. Eleanor W. Bisell.)
- SHANNON, Mrs. T. J., Washington, D. C.: Representations of three of the Gods of Good Fortune, painted on a silk coat lining, a good example of the Japanese Shi-jo school of painting (140058).
- SHARP, Prof. A. J. (See under University of Tennessee.)
- SHARP & DOHME, Inc., Philadelphia, Pa.: A collection of photographs, cut-out maps, drawings, and specimens, mounted on 3 panels, to illustrate the manufacture and use of antivenin, an anti-snake-bite serum (140948).
- SHAW, T. H., Peiping, China: 5 fishes collected by the donor in 1932 in streams near Jade Fountain, Peiping (140752).
- SHERMAN, H. B., Gainesville, Fla.: 10 bats from Gainesville (141348).
- SHIDLER, Dr. W. H., Oxford, Ohio: 200 immature brachiopods from the Bromide formation of the Criner Hills, Okla. (142378).
- SHIPP, T. R., Washington, D. C.: 1 osprey from Gunston Cove, Va. (141235).
- SHOEMAKER, ERNEST, Brooklyn, N. Y.: 4 insects (141335, exchange).
- SIMON, Prof. FELIX, Laramie, Wyo.: 2 tapeworms (139382).

- SIMON, Mrs. W. H., Fort Lauderdale, Fla.: 3 mollusks from Fort Lauderdale (142928).
- SIMPSON, A. G., Portland, Oreg.: 5 crustaceans (3 species) from the Oligocene of Oregon (142347).
- SIMPSON, Dr. E. S. (See under Geological Survey of Western Australia.)
- SINCLAIR, R. C., Hampton, Va.: 1 aquatic oligochaete (142316).
- SIROLA, JOHN, Washington, D. C.: 3 specimens of minerals—chrysoberyl, aeschynite, and pyrochlore—from Russia (143125, exchange).
- SKUTCH, Dr. A. F., San Isidro del General, Costa Rica: 479 plants from Costa Rica (141146, 143067).
- SLATTERY, RICHARD, Washington, D. C.: Collection of fragments of churchwarden English clay pipes, English 17th-century slip-ware pottery, decorated stoneware and glass bottle necks and bottoms, from site of trading post on the Patuxent River, Md. (142880); collection of pipes and pewter spoon from site of trading post on the Patuxent River, Md., bottle neck from Marshall Hall, Md., and clay pipe, glass bottle, wrought iron and English slip ware fragments from the mouth of Potomac Creek, Stafford County, Va. (143146).
- SLOCUM, H. J., Charleston, S. C.: Quartzite blade from Lost Spring, Black Mountains, Mohave County, Ariz. (143776).
- SMALL, Dr. J. K. (See under New York Botanical Garden.)
- SMITH, BABE, East Akron, Ohio: A parachute of the Harding type, 1927, used in over 200 descents, including one of 12,000 feet over Sacramento, Calif., in 1929 (137657).
- SMITH, C. S., San Marcos, Tex.: Collection of spiders, including 7 adults, egg sacs, and some young, from Ezell's Cave, Tex. (139904).
- SMITH, Prof. E. R., Greencastle, Ind.: Collection of Lower Pleistocene Bryozoa from the Neuse River, N. C. (143732).
- SMITH, Capt. F. J., Mayport, Fla.: 1 basket-starfish (139893).
- SMITH, Prof. FRANK, Hillsdale, Mich.: Collection of earthworms on which his paper on the earthworms of Oregon is based (140727).
- SMITH, Dr. H. M., Woods Hole, Mass.: Jaws of a blue shark (140906); collection of Siamese weapons (141609); 9 ethnological objects from the Philippine Islands (142345); 33 bird skins (142632); 55 photographic prints of mountain people adjacent to boundary of northern Siam and the San States of Burma, from negatives by Dr. H. R. O'Brien and 29 negatives of hitherto unphotographed tribes of northern Siam (142662); 3 skulls and 4 supraoccipital shields of fishes from Samet Island, Gulf of Siam, collected September 25, 1923 (142851). (See also under R. A. Goffin.)
- SMITH, Mrs. H. M., Washington, D. C.: Crocheted antimacassar made by Mrs. Jonathan Pratt about 1865 and silk scarf of Spanish drawnwork (143424); tablecloth brocaded with Biblical scenes, middle of 19th century, and a towel, early 19th century (143835).
- SMITH, J. G., Syracuse, N. Y.: 1 pearl found in a cherry stone clam in a hotel in Syracuse (140555).
- SMITH, LILYAN, Washington, D. C.: Insignia of the 20th Aero Squadron, A. E. F., painted on masonite 24 inches square (144260).
- SMITH, Mrs. R. K., Chicago, Ill.: 75 plants collected in Korea by Rodger B. Smith (139951).
- SMITH, R. T., Seattle, Wash.: 15 fishes collected in Georgia Straits, near Blaine, Wash., at Alden Bank (143834).
- SMITH, VIRGIL, Port Arthur, Tex.: Half-model of a tug boat designed and built by the donor (144171).
- SMITHSONIAN INSTITUTION: 1 Meissen portrait bottle with representation of Frederick the Great, from the John Watts DePuyster collection (140064, deposit); one etching, "Sea Pasture", by Charles Woodbury, presented by the Society of American Etchers to its associate members, 1936 (141334, deposit).
- Smithsonian Roebling Exploring Expedition*: 2 birds and 1 nest, 6 reptiles and batrachians, 1,736 fishes, 75,000 mollusks, a collection of insects, 3,356 marine invertebrates, and 5 jars of fungi and algae from Florida, Cuba, and the Isle of Pines, collected for the Museum by Dr. Paul Bartsch (142696).
- Bureau of American Ethnology*: Skeletal material from two sites on Canaveral Peninsula, Brevard County, Fla., collected by the Bureau in cooperation with the Federal Civil Works Administration (140528); collection of miscellaneous archeological specimens and human and animal bones, 1 bird bone, 25 specimens crab claws, collected during mound excavations in Florida during the winter of 1933-34 in cooperation with the

Federal C. W. A. (142561); bones of a Brewer's blackbird collected in northern Colorado (143898).

National Museum, collected by members of staff: Bartsch, Dr. Paul, and Dr. J. P. E. Morrison: 19 fishes collected at Roaches Run, Va., in an experimental cage (140979). Bassler, Dr. R. S.: Invertebrate fossils from the Tertiary of France, Austria, and England and the Cretaceous of Germany and Czechoslovakia (over 20,000 specimens) and about 500 casts of types of Upper Paleozoic echinoderms (142367). Chapin, Dr. E. A.: 25,000 miscellaneous insects, 51 fishes, 58 crustaceans, 46 reptiles and amphibians, 200 millipeds, and 15 chitons from Jamaica (144230). Cooper, Dr. G. A.: 18 Silurian and Devonian invertebrate fossils from Pennsylvania (140029). Cooper, Dr. G. A., and P. E. Cloud: About 30,000 invertebrate fossils from Devonian deposits of New York, Ontario, Ohio, Indiana, Illinois, Missouri, Iowa, Minnesota, Michigan, and West Virginia (141148). East, C. S.: Collection of reptiles, amphibians, and mollusks from Garrett and Worcester Counties, Md. (140912). Gazin, Dr. C. L.: About 600 determinable specimens of Paleocene and Pliocene mammals from New Mexico and Arizona (138867). Hrdlička, Dr. Aleš: Skeletal and cultural material, with bird nest and 4 eggs, 9 mollusks, animal bones, fishes, sponges and other invertebrates, and a few geological specimens, from Kodiak Island and various other sites on the Aleutian Islands (138127). Killip, E. P.: 52 plants from western New York (141300). Miller, G. S., Jr.: General collection from Panama, consisting of about 450 mammals, 139 birds, 146 reptiles, 48 fishes, 24 shrimps, 2 crabs, 8 shells, 400 sheets of plants, 42 insects, and a few Indian artifacts (144227). Perrygo, W. M., and Carleton Lingebach: 377 bird skins and 2 bird skeletons, 101 mammals, 1 crayfish, 1 earthworm, 1 lot of mollusks, and 7 reptiles and amphibians (141353); 620 bird skins, 2 birds in alcohol, 1 bird skeleton, 221 mammals, and 98 fishes from West Virginia (138921). Stewart, Dr. T. D.: Small lot of skeletal remains from an Indian ossuary about 4 miles east of Cambridge,

Md. (140519). Stewart, Dr. T. D., and Dr. W. R. Wedel: Skeletal material, 1 steatite ornament, and 14 shell beads from two ossuaries at Bolling Field, Anacostia, D. C. (142293). Wetmore, Dr. Alexander: 320 bird skins and 42 bird skeletons from Guatemala (142015).

National Museum, obtained by purchase: 4 samples of diatomaceous earth from Nevada (136827); 1 bird (139971); 2 eggs of a fossil ostrich from China (140025); 520 photographs of type specimens of plants in European herbaria (140060); 1 mounted fossil skeleton of mammal (140068); 1 chromolithograph on prepared canvas (140279); an Ethiopian book cover of worked metal (140284); collection of Sioux Indian beadwork consisting of a stole, bag, and bow stave (140286); 500 plants from Algeria and Morocco (140576); 1 fossil musk-ox skull (140678); 7 fishes (140707); 25 North American mosses (140788); 680 moths from Santa Catharina, Brazil (140805); 15 bird skins from Southwest Africa (140921); small wooden figurine from one of the Lower Mississippi Indian tribes (140942); 33 plants from Juan Fernandez, collected by Carl Bock (141115); 85 assorted Devonian invertebrates from southwestern Ontario (141134); Catlinite pipe and twisted wooden stem, Sioux (141232); 18 skeletons of large South American birds and mammals (141277); 31 small mammals from Japan (141375); 2 bird skins from Alaska (141615); 3 bird skins from the New Guinea region (141619); 48 invertebrate fossils and fossil wood from Ontario (141666); old Spanish clasp knife (141720); 6 small birds from Gambell, Alaska (141769); collection of Silurian and Devonian crinoids, blastoids, and cystids from Eastern United States (142025); 10 skins of South African birds of forms new to the collection (142209); 31 mammals and 8 birds from Formosa (142234); 387 plants from South America (142352); 48 Lepidoptera from Quelpart Island off the Korean coast (142550); 214 plants from Samoan Islands (142584); 1 fossil turtle from Alberta (142919); 74 isopods (143051); 2 bird skeletons from Korea (143156); 30 small mam-

- mals from the Philippine Islands (143194); Franklin automobile (no. 3) of 1902, said to be the first Franklin to leave the factory (143470); 4 bat skins with skulls (143576); 835 woods collected with herbarium material in Brazilian Amazonia during 1935 (143600); United States flag made about 1830 (143646); 150 plants from California (143647); 1,500 insects (143702); 11 turtles from Central America (144076).
- National Museum, made in Museum laboratories:* 5 casts of an earthenware vessel; original found on the Reeves place, Rapides Parish, La., and owned by Edward Neild, Shreveport, La. (141215); 3 casts of a stone paint mortar, the original found a short distance east of The Dalles, Oreg., and owned by Mrs. Mattie A. Winans, Portland, Oreg. (141383); a group of aeronautical insignia and a painting of a captive balloon ascent (144265).
- National Zoological Park:* 54 skins and 71 skeletons of birds, 9 eggs and 5 alcoholics (140247, 140837, 141352, 141748, 143132, 144024, 144277); 70 mammals (140759, 141141, 142042, 143082, 144113, 144121); 1 horseshoe crab and 1 land crab (141138, 142046); 1 large electric eel (142045); 1 Aldabra Island turtle (143157); 5 reptiles and amphibians (144239).
- SNIDEMAN, Mrs. HARRY, Upper Marlboro, Md.: A cotton applique quilt in "Whig Rose" pattern made about 1858 by the lender's grandmother, Elizabeth Echternoch, of Kinzer, Lancaster County, Pa., when 12 years old (142041, loan).
- SNIFFEN, E. W., Hampton, Va.: 1 specimen graffonite from Greenwood, Maine (144020).
- SNODGRASS, R. E., Washington, D. C.: 8 crabs, 1 hippa, 5 amphipods, and 5 starfishes from near Cape Charles, Va. (140774); 27 amphipods and 1 isopod (141226).
- SNOWDEN, Mrs. HELEN K., Washington, D. C.: Uniform coat, trousers, cap, chapeau, epaulets, and belts worn by Rear-Admiral Thomas Snowden, U. S. Navy, during the period of the World War and a U. S. Army cap and chapeau of the period of the Civil War (143147).
- SOCONY-VACUUM OIL Co., New York City: (Through J. Stirling Getchell, Inc.) 5 scrapbooks containing news clippings describing Wiley Post's tour of the United States in the *Winnie Mae*, 1933 (140802).
- SONGDO HIGHER COMMON SCHOOL, South Songdo, Chosen: 388 beetles (11 species) (141194, collected for the Museum).
- SOUKUP, J., Puno, Peru: 36 plants from Peru (141906).
- SOUTH AFRICAN MUSEUM, Capetown, South Africa: (Through Dr. K. H. Barnard) 235 phyllopodids (141221, exchange).
- SOUTH DAKOTA STATE COLLEGE, Brookings, S. Dak.: (Through Prof. H. C. Severin) 3 flies from South Dakota (141690).
- SOUTH DAKOTA STATE SCHOOL OF MINES, Rapid City, S. Dak.: (Through Prof. J. P. Connolly) An 18-pound slice of the Bennett County, S. Dak., meteorite (139467, exchange).
- SOUTHERN METHODIST UNIVERSITY, Dallas, Tex.: (Through Prof. S. W. Geiser) 3 pseudoscorpions from Dallas (139905).
- SOUTHERN PHOSPHATE CORPORATION, Bartow, Fla.: (Through J. W. Pampalin) 10 flies from Florida (140784).
- SOUTHWORTH, CHARLES, Thedford, Ontario: 200 invertebrate fossils from the Devonian of southwestern Ontario (141140).
- SOXMAN, G. M., Dallas, Tex.: 2 ferns from Texas (143110).
- SPARKES, J. G., Long Island City, N. Y.: 18th century French sector (141741).
- SPAWN, W. S., Washington, D. C.: 2 ferns from Virginia (141214); 2 ferns from Pennsylvania (142228).
- SPENCE, H. S., Ottawa, Ontario: 13½ grams and 1 polished section of a stony meteorite from the vicinity of Great Bear Lake, Canada (143891).
- SPENCER, Mrs. B. B. (See under Katherine L. Bryarly.)
- SPERRY, GRACE H., and J. L. SPERRY, Riverside, Calif.: 14 Lepidoptera (142372).
- SPERRY, Prof. O. E., Alpine, Tex.: 692 plants from Texas (141591, 142364, 142866, 142881).
- SQUIER, Maj. Gen. GEORGE O., Estate of: (Through J. A. Purcell) 10 pieces of electrical and mechanical apparatus used on General Squier's communications work and 1 gyroscopic-compass element used in an aircraft flight of 1918 (143739).
- STACH, LEO, Melbourne, Victoria: (Through National Museum of Australia) 24 species of Tertiary Bryozoa of the family Catenicellidae from Australia (140919).
- STACKHOUSE, L. W., Bristol, Pa.: Double-woven, blue-and-white, cotton-and-wool coverlet in a John Landes pattern with pine-tree border, made about 1798 at Emilie, Bucks County,

- Pa., and owned by John B. Brown, great-grandfather of the donor (142620).
- STADNICHENKO, MARY, Negritos, Peru: Male skull without lower jaw from northern Peru and fragment of cotton cloth (140815).
- STAINBROOK, Dr. M. A., Lubbock, Tex.: 9 brachiopods from the Devonian (Independence shale) of Iowa (141708).
- STANDARD ENGRAVING Co., Washington, D. C.: 2 mounted copper halftone plates and prints from them, 1 mounted zinc line cut and prints from it, 3 prints of a 3-color halftone, and impressions from 6 different halftone plates, all made from the same photo, but with different screens (141604).
- STANFORD UNIVERSITY, Stanford University, Calif.: 188 plants from Western United States and Mexico (144266, exchange).
- STATE, U. S. DEPARTMENT OF: A glass jar containing a skein of raw silk, silk cocoons, silkworms, and silkworm eggs, prepared by primary school pupils in Kanagawa Prefecture, Japan, 1936, and presented by the International Friendship Society of Japanese School Children (141301).
- STEARNS, W. T., London, England: 2 specimens of cultivated plants (140791, 141135).
- STEHLÉ, Dr. H., Pointe-a-Pitre, Guadeloupe: 365 plants from Guadeloupe (140299, 142250, 144059); 92 plants from Guadeloupe and Martinique and 161 miscellaneous insects (141709).
- STEPHENSON, Dr. L. W., Washington, D. C.: 2 specimens of manganese dendrites from Mississippi (140518).
- STERNBERG, C. M. (See under National Museum of Canada.)
- STEVENS, HENRY, Washington, D. C.: 1 Harvey photographic exposure meter (141120).
- STEVENSON, C. A., Oakdale, Ill.: 4 ants (141374).
- STEVENSON, J. A. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- STEWART, Dr. GRACE A. (See under Ohio State University.)
- STEWART, Dr. T. D. (See under Smithsonian Institution, National Museum.)
- STEYSKAL, GEORGE, Ann Arbor, Mich.: 46 miscellaneous insects (138360); 7 flies (141744).
- STILLEY, CARLYLE, Washington, D. C.: 1 gray-cheeked thrush from the District of Columbia (140835).
- STOCKWELL, E. HOWE, New York City: Cross of the Legion of Honor presented in 1867 to Elias Howe, Jr., grandfather of the lender, by Emperor Napoleon III of France (141773, loan).
- STOTTLEMEYER, MARGARET A. R., Washington, D. C.: Collection of early American pottery and glass (140095); hand-painted baptismal certificate dated 1782, Pennsylvania Dutch (140776).
- STOUDT, H. N., Baltimore, Md.: 13 ferns from Jamaica (141251, 143401).
- STOUT, PAUL, Bluffton, Ind.: 33 small mammal skulls from Wells County, Ind. (143469): (through C. C. Deam) 1 least weasel from Bluffton (142222).
- STOUT, W. B., Dearborn, Mich.: 2 models, $\frac{1}{16}$ size, of original airplanes designed by the donor, the "Bat Wing" monoplane of 1917-18, and the cabin plane with wide cantilever wing, 1920 (141347).
- STOYE, F. H., Sayville, N. Y.: 55 fishes from his aquarium collection (140607).
- STROHECKER, H. F., Chicago, Ill.: 2 insects (walkingsticks) (142379).
- STRONG, KATE W., Setauket, Long Island, N. Y.: Unfinished lacquered basketry box and cover from the Law people of Lampang, Siam (143550).
- STUDHALTER, Prof. R. A., Lubbock, Tex.: 58 plants from New Mexico and Colorado (142190).
- STUKEY, Prof. G. C., Kirksville, Mo.: (Through Dr. R. D. Moore) 1 mounted human nervous system (138837).
- STURGES, MARY M., Washington, D. C.: Edison talking doll of about 1890 (143749).
- SUENSON, E., Shanghai, China: A small collection of coleopterous larvae (4 species) from China and Japan (140011, exchange).
- SULC, Dr. JAROSLAV, Prague, Czechoslovakia: Collection of Austrian and Australian Tertiary Bryozoa (140914, exchange).
- SULLIVAN, WILLIAM, Nucla, Colo.: 1 specimen of pascoite from Nucla (140540).
- SUNYATSEN UNIVERSITY, Canton, China: 44 plants from China (144144, exchange).
- SWALLEN, J. R. (See under U. S. Department of Agriculture, Bureau of Plant Industry.)
- SWARTZ, Prof. F. M., State College, Pa.: Collection of ostracod types from the Devonian Shriver chert of Pennsylvania (141350).

- TAIHOKU IMPERIAL UNIVERSITY, Taihoku, Japan: 150 plants from Formosa (143836, exchange).
- TAMS, W. H. T. (See under British Government, British Museum.)
- TANNER, Dr. V. M. (See under Brigham Young University.)
- TARANETZ, Dr. A. (See under Pacific Science Institute of Fisheries.)
- TARBOX, F. G., Jr., Brookgreen, S. C.: 16 plants from South Carolina (140761).
- TAYLOR AIRCRAFT Co., Bradford, Pa.: Model, $\frac{1}{8}$ size, of the Taylor *Cub* airplane, a current type of 2-piece sportplane (137494).
- TENNESSEE, UNIVERSITY OF, Knoxville, Tenn.: (Through Prof. A. J. Sharp) 1 fern from Tennessee (140887, exchange).
- TENNESSEE VALLEY AUTHORITY, Knoxville, Tenn.: (Through Dr. C. L. Hubbs) 192 fishes from the Tennessee Valley drainage, Ala. (143886).
- TERREBONNE, R. F., Morgan City, La.: Half-model of the oyster sloop *Spectre* (143426).
- TERRELL, ZACH. (See under Cole Brothers-Clyde Beatty Circus.)
- TEXAS CHRISTIAN UNIVERSITY, Fort Worth, Tex.: 4 flies (2 species) from Texas (142100).
- TEXAS COLLEGE OF ARTS AND INDUSTRIES, Kingsville, Tex.: (Through Dr. J. C. Cross) 16 fishes from Texas, 1 frog, and a collection of marine invertebrates (143730).
- TEXAS, UNIVERSITY OF, Austin, Tex.: 10 ferns from western Texas (139891); 23 ferns from Mexico (141227); 24 ferns from the Chisos Mountains, Tex. (143788); (through Prof. B. C. Tharp) 43 plants from Texas (141094, 141325, 141393, 142331).
- THAANUM, Dr. D., Honolulu, Hawaii: 3 mollusks from Maui (140794); 303 marine shells from Oahu, Hawaii (142862).
- THARP, Prof. B. C. (See under University of Texas.)
- TIDESTROM, IVAR, Washington, D. C.: 235 plants from France (139955, 142245).
- TIMBERLAKE, P. H., Riverside, Calif.: 3 Hymenoptera, all types (144204).
- TISSOT, Dr. A. N. (See under University of Florida.)
- TITUS, Dr. E. S. G., Salt Lake City, Utah: 1 hymenopteron (144203).
- TOLSON, E. C., Stevensville, Md.: Kentucky rifle made about 1825 and double-barreled shotgun made about 1850 (142039).
- TORREALBA, Dr. J. F., Zaraza, Venezuela: 5 insects (143165).
- TOTTEN, A. K. (See under British Government, British Museum.)
- TOWNES, H. K., Ithaca, N. Y.: 50 amphipods, 50 isopods, 6 barnacles, 7 crayfishes, 10 shrimps, 2 crabs, and 2 mollusks from the Hudson River (140828, 141596).
- TRAIN, PERCY, Lower Rochester, Nev.: 314 plants from Nevada and 35 photographs mainly of Nevada plants (139918, 140689, 140923, 141368, 142351).
- TRAVERS, Mrs. KATHARINE B., Daytona Beach, Fla.: Collection of black Chantilly lace consisting of parasol cover, shawl, and jacket (142512).
- TREASURY, U. S. DEPARTMENT OF THE: *Bureau of Engraving and Printing*: (Through A. W. Hall) 8 blocks of four 1-cent U. S. revenue stamp essays printed by Joseph R. Carpenter about 1871-75 (141213).
Bureau of the Mint: 2 Albany commemorative half-dollars struck in 1936 (141358); 2 specimens each of six U. S. commemorative half-dollars struck in 1936 and 2 Japanese nickel coins struck in 1933 (142094); Wisconsin Centennial half-dollar, 1936 (142788); Delaware Tercentenary half-dollar struck in 1937 and New Rochelle 250th Anniversary half-dollar struck in 1936 (143773); bronze medal commemorating the inaugurations of Franklin Delano Roosevelt as President of the United States on March 4, 1933, and January 20, 1937 (143967); U. S. bronze, nickel, and silver coins (30 specimens) struck at the Denver, Philadelphia, and San Francisco mints in 1936 (144069). (See also under California-Pacific International Exposition, Columbia Sesquicentennial Commission, Daniel Boone Bicentennial Commission, Elgin Centennial Monumental Committee, Lynchburg Sesquicentennial Association, Roanoke Colony Memorial Association, and San Francisco-Oakland Bay Bridge Celebration.)
Procurement Division: 2 cased skins of otter and 2 flat skins of beaver from Bristol Bay, Alaska (142625).
Bureau of the Public Health Service: 4 red-fox skulls from Canaan, Maine (139938); 1 chipmunk from Dale County, Ala. (141157); 2 flying squirrels from Dale County, Ala. (142265); 8 insects from Georgia (142545); (through Dr. R. R. Parker) 101 miscellaneous insects (142566).

- TRIPP, F. W., Washington, D. C.: A 4-by-5 box camera roll of film made by the American Camera Co., Rochester, N. Y., under patents of 1890-95-97 (144094); a 3¼-by-4¼ box camera for plates, maker unknown (144167).
- TROXELL, Dr. E. L., Hartford, Conn.: Cast of skeleton of fossil horse from Wasatch formation of Big Horn Basin, Wyo. (142230).
- TRUITT, Dr. R. V., College Park, Md.: 1 crab from lower Chesapeake Bay (141635); 1 vial of amphipods, 10 vials of isopods, 1 vial of parasitic copepods, 8 vials of marine annelids (143731); 1 Florida gallinule (143756); 6 lots of crabs, 22 lots of shrimps, 2 lots of copepods, 7 lots of schizopods, 2 lots of cladocerans, and 1 vial of nemertean worms (143802).
- TURQUOIS INDIAN TRADING Co., Santa Barbara, Calif.: 18 cut and polished turquoise specimens from the Lucky Blue mine, Lander County, Nev. (141602).
- TUTTLE, Mrs. MACOWIN, New York City: Chest and tools used by Macowin Tuttle, the wood engraver, and 2 original wood blocks by Mr. Tuttle and prints from them (135 specimens) (143753); 2 photographs of Macowin Tuttle (144236).
- ULKE, Dr. TITUS, Washington, D. C.: 1 palatine plate of fossil fish from the Miocene of Stratford Cliffs, Va. (140246); 8 beetles from Virginia (140839); 2 plants from vicinity of Washington (143411); 1 southern pileated woodpecker (143791); 1 scarlet tanager (144021).
- UNIVERSITETETS BOTANISKE MUSEUM, Copenhagen, Denmark: 349 plants from West Greenland and Denmark (143863, exchange); 234 plants from Tropical America (144190, exchange).
- URITA, Dr. T. Saghalien, Japan: 2 shrimps (140490, exchange).
- URQUIZO, Ing., J. de J. (See under Dirección de Agricultura.)
- UTAH STATE AGRICULTURAL COLLEGE, Logan, Utah: 23 miscellaneous insects (137719); 85 plants from Western United States (144231, exchange); (through Dr. G. F. Knowlton) 89 miscellaneous insects from Utah (129142); 54 miscellaneous insects, including 2 paratypes of 2 new species by M. T. James (138230, exchange); 14 flies (7 species) from China (140960); 31 Neuroptera (141219, exchange); 6 flies, comprising holotype and 5 paratypes (141747); 24 slides of aphids (19 species, 9 represented by 11 slides all of which are types or paratypes) (142056); 2 aphid slides (143652); 1 slide of insect, a paratype (143737).
- VALENTINE, Dr. J. M., Chapel Hill, N. C.: 7 beetles, representing 3 species by types and allotype and 1 by type (144122).
- VALERIO, MANUEL, San Jose, Costa Rica: 2 salamanders, 4 marine algae, and a small collection of insects, all from Costa Rica (115681); 1 marine annelid, 3 nemertean worms, 2 flatworms, 2 crabs, 6 insects, 4 myriapods, 1 fish, and 1 isopod (134813); 20 plants from Costa Rica (140893); 10 plants from Costa Rica (144060).
- VAN BIBBER, Mrs. GLADYS D., Washington, D. C.: 1 ambrotype and 1 daguerreotype (141392).
- VAN EMDEN, Dr. FRITZ, Dresden, Germany: 20 coleopterous larvae, representing 6 species in alcohol and 1 on a slide (136070).
- VAN HYNING, Dr. T. (See under Florida State Museum.)
- VAN VOLKENBERG, Dr. H. L. (See under U. S. Department of Agriculture, Office of Experiment Stations.)
- VINCENT, ROBERT, Cambridge, Md.: Skull without lower jaw from an Indian ossuary on Mr. Vincent's farm near Cambridge (140522).
- VIRNELSON, MARION H., New York City: Original material relating to the life and work of John W. Griffiths (1809-1882), naval architect, inventor, and author, including the identity of his apprenticeship, a half-model, and publications, lithographs, correspondence, totaling 86 items (144257); original material relating to the work of John W. Griffiths, including drawings of the clipper ship *Sea Witch* and *Six Day Steamer*, the U. S. S. *Pawnee*, and others, with photographs, drafts, and letters totaling 92 specimens (144259, loan).
- VON GLAHN, CARRIE M. (See under Mrs. J. W. Freeman.)
- VON IHERING, Dr. RUDOLF, Ceara, Brazil: 2 spiny lobsters, 15 crabs, 1 colonial anemone (142498).
- VONSEN, M., Petaluma, Calif.: 2 specimens of the mineral tepleite, 1 of anorthite, and 1 of glaucophane from California (142075, exchange); 4 specimens of bakerite from California (144253, exchange).
- VON SNEIDERN, KJELL, Cauca, Colombia: 2 bird skins from Colombia (140958).
- WALCOTT, Mrs. C. D., Washington, D. C.: Beaded Peyote fan of the Kiowa Indians (140926); a piece of bark cloth, Uganda (141206); 3 carved stone ob-

- jects and 1 carved wooden mace, objects of the Koluschian people of the Wrangell district, Alaska (141616); 2 modern Japanese block prints and 1 modern Japanese lithograph in colors (142375); 10 plants from Western United States (142500); 1 specimen of calcite and 2 of chalcopryrite from Japan (142877); 13 specimens of Hawaiian ethnology, consisting of poi bowls, gourd net, lava figurine, and matting (143077); Navaho shoulder blanket showing Puebloan influence, dating from the Bosque Redondo period, which began in 1864 (143818); 1 plant from Tennessee (144040); a pair of eyeglasses (1908, with holder and case) used by the late Dr. Charles D. Walcott (144112); (through Dr. A. Hrdlička) 2 shrunken heads of Jivaro Indians (141606).
- WALFORD, Dr. L. A., Palo Alto, Calif.: 90 large game fishes (5 holotypes included) from Lower California, the Gulf of California, and the west coast of Mexico, collected during the 1935 expedition on board the yacht of Maj. Max Fleischmann (135463).
- WALKER, C. C., Manchester, Mass.: 2 bookplate impressions by Rudolph Ruzicka (140289).
- WALKER, F. B., Pascagoula, Miss.: Half-model of the schooner *F. B. Walker* and others designed and built by the donor (144179).
- WALKER, G. A. Spencer, N. C.: Spherical stone object from a site 2 miles southwest of Rockwell, Rowan County, N. C. (143880).
- WALKER, L. L., Houston, Tex.: 4 airplane power units, a Hall Scott engine, gasoline tank, water radiator, and propeller, used by the donor in a Curtiss pusher plane, 1911 to 1914 (142841).
- WALKINSHAW, Dr. L. H., Battle Creek, Mich.: 1 yellow-rail skeleton (143650).
- WALLACE, C. L., East Orange, N. J.: Good-citizenship medal of the National Society of the Sons of the American Revolution (141641).
- WALTER RATHBONE BACON SCHOLARSHIP, Smithsonian Institution: Collection of marine invertebrates and approximately 10,000 mollusks collected by Dr. Alan Mozley in Siberia (129772); 2 bird nests and 2 eggs, 2 bird skeletons, one with partial skin, 25 mollusks and 35,030 insects, collected by Dr. R. E. Blackwelder in the West Indies (140312, 144246).
- WAR, U. S. DEPARTMENT OF: (Through Capt. F. O. Bowman) 1 mass of worm tubes, 1 amphipod, 3 crabs (139434); about 25 marine annelids (140049); (through Chief of the Air Corps) 62 large photographs illustrating types of airplanes employed by the U. S. Army from the World War to the present time (142294).
- WARD, E. J., Washington, D. C.: (Through Mrs. E. J. Ward) 3 decorated skin bags, baby cap, and parka border, Eskimo, Point Barrow, Alaska (143429).
- WARD, MELBOURNE, Sydney, New South Wales: 3 crabs from reefs at Balboa, Panama (143430).
- WARD'S NATURAL SCIENCE ESTABLISHMENT, INC., Rochester, N. Y.: 17 fossil seeds and wood fragments from the Jacksboro shale, Jack County, Tex. (142369, exchange); 105 slabs of Lower Paleozoic trails and other impressions (142905, exchange); 1 iron meteorite from Santa Luzia, Brazil (143643, exchange).
- WARREN, Mrs. A. J., and Mrs. S. M. CATES, Long Beach, Calif.: Brass oil lamp and stand used on the U. S. S. *Undine* during the Civil War (141584).
- WARREN, H. A., Jr., Baird, Tex.: 8 spines of crinoid from the Coal Measures of Texas (143701).
- WASHINGTON PHOTOGRAPHIC SOCIETY, Washington, D. C.: 61 pictorial photographs for special exhibition during May 1937 (143778, loan).
- WASHINGTON, STATE COLLEGE OF, Pullman, Wash.: 110 plants from Northwestern United States (143098, exchange); 137 plants from Western United States (144139, exchange).
- WASHINGTON, UNIVERSITY OF, Seattle, Wash.: (Through Prof. G. N. Jones) 2 ferns from Alaska (141282, exchange); (through Dr. L. P. Schultz) 6,897 fishes from various localities (142501, deposit).
- WATTS, J. G. (See under Clemson College.)
- WAY, Dr. S. C., San Francisco, Calif.: Small "button" of bone from a skull, showing signs of burning, found in a mound near Marysville, Calif. (142853).
- WAYNE COLOR PLATE Co., Dayton, Ohio: 4 impressions of an enlarged halftone, showing the original 120-line screen copper halftone cut in upper left corner (141295).
- WEATHERBY, C. A. (See under Harvard University, Gray Herbarium.)
- WEAVER, JOHN, Elk Springs, Colo.: Steatite vessel from a cave in Yampa Canyon, 30 miles west of Lily Post-office, Moffat County, Colo. (143471).

- WEBB & BOCORSELSKI, Washington, D. C.: 1 original lithograph and 2 specimens of dot etched offset lithography (142587).
- WEBSTER, Mrs. CARRIE B. (See under Mrs. Delia B. Orem.)
- WEBSTER, R. N., and B. GOLDBERG, Baltimore, Md.: 48 ferns from Jamaica (142565).
- WEDEL, Dr. W. R. (See under Nebraska State Historical Society and Smithsonian Institution, National Museum.)
- WEISZ, ROBERT, Washington, D. C.: 1 specimen of chrome mica from near Etchison, Md. (140026).
- WELLIVER, Col. W. E., Washington, D. C.: Young 2-toed sloth in formalin, born in captivity (142047).
- WELLS, Dr. J. J., Glass, Tenn.: (Through Mrs. Lloyd Miller) Red Claystone bannerstone and hammer found in Glass, Obion County, Tenn. (143698).
- WEST COAST ENGRAVING Co., Portland, Oreg.: 1 mounted copper halftone of the Corot painting "A Mountain Road", which has been reengraved by Carl F. Freilinger (141067).
- WESTERN ELECTRIC Co., Inc., New York City: 1 electrical stethoscope (141701).
- WESTERN UNION TELEGRAPH Co., New York City: A 1-foot length of the cable laid in June 1873 between Valentia, Ireland, and Hearts Content, Newfoundland, recovered by the cable ship *Cyrus Field*, in May 1933 (140783).
- WETMORE, Dr. ALEXANDER, Washington, D. C.: 1 young robin (140030); 84 bird skins from Maryland and Virginia (140067, 141750); 8 coins of Guatemala, Honduras, The Netherlands, and Salvador and a tax token of Louisiana (142200); 7 bird skins (143697); 4 bird skins from Virginia and 9 bird skins from West Virginia (142309, 144098); 1 garter snake from Mount Rogers, Va., 5,700 foot elevation (144210); 70 bird skins, 1 rough skeleton, 5 eggs (144234); 11 birds' eggs (144278). (See also under Smithsonian Institution, National Museum.)
- WHEELER, Prof. G. C. (See under University of North Dakota.)
- WHEELER, L. C., Cambridge, Mass.: 9 plants from California (142256).
- WHELAN, W. P., New York City: Edison cylinder phonograph, about 1906, with 51 records (141819).
- WHERRY, Dr. E. T., Philadelphia, Pa.: 1 living fern (143557).
- WHITE, DOROTHY, Binghamton, N. Y.: Horn cutting knives used by Charles Phillips, grandfather of the donor, for many years foreman cutter of the Noyes Comb Co., 2 photographs showing him operating the comb machine, a series of specimens illustrating the manufacture of horn combs, and specimens of raw horns of various animals (141121).
- WHITE, Mrs. ELEANOR C., Washington, D. C.: 118 plants from Maryland and Pennsylvania (140946); 1 cultivated plant (144092).
- WHITE, Dr. O. E., Charlottesville, Va.: 1 plant (142520).
- WHITEHOUSE, F. C., Vancouver, British Columbia: 8 insects, representing 3 named species (143890).
- WHITLOCK, Mrs. BRAND, New York City: Rosary presented to Ambassador Brand Whitlock by Cardinal Mercier in 1917 and a diamond pin representing the U. S. flag presented to Mrs. Whitlock by the city of Brussels, July 4, 1915 (143558). (See also under Godefroid Devreese.)
- WHITNEY, C. M., Jr. (See under Mrs. May W. Helms.)
- WHITTARD, Dr. W. F., London, England: 1 cast of a trilobite (142588).
- WIGGINS, I. L., Stanford University, Calif.: 5 woods collected by the donor in northwestern Mexico and southwestern Arizona (140961).
- WILDER, G. D., Tehchow, China: 1 Wilder's pigmy woodpecker and 1 Chinese dipper (142220).
- WILFLEY, R. I., Colorado Springs, Colo.: 3 specimens of triplite from Turkey Creek, El Paso County, Colo. (142858).
- WILKINSON, D. S. (See under British Government, British Museum.)
- WILLARD, Dr. BRADFORD, Harrisburg, Pa.: 28 Devonian (Tully) invertebrate fossils from Perry County, Pa. (143807). (See also under Pennsylvania Geological Survey.)
- WILLIARD, J. E., McGregor, Tex.: About 150 Texas Cretaceous invertebrate fossils replaced by limonite (143422).
- WILSON, Prof. C. L., and W. R. HATCH, Hanover, N. H.: About 285 ferns from Guatemala (141305).
- WILSON, DENNIS, Orrs Island, Maine: Half-model of a Hampton boat designed and made by the donor's brother, Herbert Wilson, about 1901 (141346).
- WILSON, J. W., Brookings, S. Dak.: 1 supposed fossil fruit (144067).

- WILSON, Mrs. LUKE, Bethesda, Md.: An antique Persian Kermanshah rug and a Turkish prayer rug, bought by her mother, Mrs. S. W. Woodward (142878).
- WIMSATT, W. A., Chevy Chase, Md.: 1 eastern grasshopper sparrow and an eastern Savannah sparrow from Maryland (143793).
- WINN, H. L., Lansing, Mich.: Grooved greenstone ax found by the donor, Ingham County, Mich. (142903).
- WISE, FRANCIS, Baltimore, Md.: 20 Maryland minerals (140539); specimen of brucite from Baker County, quarry, Bluemont, Md. (140777).
- WITTENBERG COLLEGE, Springfield, Ohio: 160 ethnological and archeological objects from the Sioux, Winnebago, and other Plains and Northern Woodlands Indian tribes, collected originally by Major George Keiser Sanderson (137634).
- WOLF, Mrs. S. L., Chevy Chase, Md.: 2 U. S. Artillery uniform coats of the period 1888-1917 (142569).
- WOLFE, Capt. L. R., Chicago, Ill.: 1 bird, Paraguayan *Micrastur* (140281, exchange); 1 egg of white-bellied sea eagle and 1 set of 4 eggs of Paraguayan sparrow hawk (142059, exchange).
- WOOD, Dr. H. C., Jr. (See under J. B. Lippincott Co.)
- WOOD CONVERSION Co., St. Paul, Minn.: 17 specimens showing stages in manufacture of the insulating and sound-deadening materials "Balsam-wool" and "Nu-wood" (142271).
- WOODS, BERTHA C., Woodville, Mass.: An "event apron", printed by the Dunnell Manufacturing Co. and distributed at the Cotton Centenary, Pawtucket, R. I., 1890, held in commemoration of the starting of Samuel Slater's cotton spinning machinery on December 20, 1790, in the old Slater Mill (143896).
- WORLEY, C. L., Placerville, Idaho: 10 plants from Idaho (140073).
- WORKS PROGRESS ADMINISTRATION FOR MISSISSIPPI, University, Miss.: (Through J. S. Dolley) 11 fishes from various localities in Mississippi (143665).
- WORMSER, MORITZ. (See under American Numismatic Association.)
- WRIGHT, Mrs. G. H., New Milford, Conn.: An old Hawaiian carving representing the Poison God (140114, loan).
- WRIGHT, L. M., San Francisco, Calif.: 1 fossil shell from California (140693).
- WUNDERLICH, Mrs. HANS, Washington, D. C.: (Through Mrs. A. E. Hantzmon) 12 Japanese miniature No ceremony pottery masks (141181).
- WYND, Dr. F. L., Columbia, Mo.: 595 plants from Coahuila, Mexico, (141231).
- YALE UNIVERSITY, New Haven, Conn.: *School of Forestry*: 2 wood samples (142009, exchange).
Peabody Museum of Natural History: (Through Dr. C. O. Dunbar) 247 brachiopods from the Ordovician and Silurian deposits of Anticosti Island, Canada (141771, exchange); (through Dr. C. O. Dunbar and E. I. Leith) 3 specimens of a rare brachiopod genus and 4 casts of another rare brachiopod from the Ordovician of Newfoundland (140062).
- YATES, EDWARD. (See under George Jump.)
- YOUNG, Dr. B. P., Ithaca, N. Y.: 6 fresh-water shells from New York (144066).
- YOUNG, Prof. D. B., Washington, D. C.: 1 spider (143145).
- YOUNG, F. B., Washington, D. C.: Silk fan with carved ivory staves (143460).
- YOUNG, Dr. T. H. (See under R. P. Blackmer.)
- YOUNG, W. A., Washington, D. C.: 4 concretions from Waterford, Miss., illustrating method of formation (142053).
- YOUNT, LEO, Amity, Ark.: (Through J. C. Reed) 3 large specimens of cinnabar ore, 1 specimen of crystallized cinnabar and dickite, and 1 of stibnite (143079).
- YUNCKER, Prof. T. G. (See under DePauw University.)
- ZELIFF, Dr. C. C., State College, Pa.: 2 slides of trematodes (cotypes) (140478).
- ZHELOCHOVTSEV, A., Moscow, U. S. S. R.: 78 sawflies (59 named species) (142368, exchange).
- ZIMMERMAN, Dr. STEPHAN, Vienna, Austria: 60 Hymenoptera (22 named species) (140251, exchange).
- ZINSSER, Dr. F. G., Hastings-on-Hudson, N. Y.: Photostatic copy of the award made to the U. S. Salicylic Acid Works at the Centennial Exhibition, Philadelphia, 1876, for the manufacture of salicylic acid, the first synthetic organic chemical made on a commercial scale in the United States (144164).
- ZOOLOGICAL INSTITUTE, Leningrad, U. S. S. R.: (Through Dr. G. U. Lindberg) 18 fishes (13 species) (141217, exchange).

- ZOOLOGICAL SOCIETY OF SAN DIEGO, San Diego, Calif.: (Through Dr. C. R. Schroeder) Skeleton of an elephant seal (141355).
- ZOOLOGICAL SURVEY OF INDIA, Calcutta, India: 247 named insects (31 species), including 2 paratypes of one species (139421, exchange).
- ZOOLOGICAL MUSEUM, Berlin, Germany: 26 bird skins, forms new to the Museum (138795, exchange).
- ZSIVNY, Dr. VICTOR. (See under Magyar Nemzeti Museum.)

PUBLICATIONS ISSUED BY THE UNITED STATES NATIONAL MUSEUM
DURING THE FISCAL YEAR 1936-37

REPORT

Report on the progress and condition of the United States National Museum for the year ended June 30, 1936. 8vo, pp. iii+115. January 14, 1937.

PROCEEDINGS

Proceedings of the United States National Museum. Vol. 83. 8vo, pp. viii+617, 71 figs., 37 pls.

BULLETINS

- No. 153, part 2. Birds collected by the Childs Frick expedition to Ethiopia and Kenya Colony: Passeres. By Herbert Friedmann. Pp. xii+506, 30 figs., 14 pls. (colored frontispiece). June 23, 1937.
- No. 167. Life histories of North American birds of prey. Part 1: Order Falconiformes. By Arthur Cleveland Bent. Pp. viii+409, 102 pls., May 3, 1937.

PAPERS PUBLISHED IN SEPARATE FORM

FROM VOLUME 83 OF THE PROCEEDINGS

- No. 2990. A revision of the chalcid flies of the genus *Perilampus* Latreille occurring in America north of Mexico. By M. T. Smulyan. Pp. 369-412. October 16, 1936.
- No. 2991. Pycnogonids from Puget Sound. By Harriet I. Exline. Pp. 413-422, fig. 33. July 9, 1936.
- No. 2992. California Crustacea of the order Cumacea. By Carl Zimmer. Pp. 423-439, figs. 34-39. August 27, 1936.
- No. 2993. A comparison of the shallow-water sponges near the Pacific end of the Panama Canal with those at the Caribbean end. By M. W. deLaubenfels. Pp. 441-466, figs. 40-45. July 31, 1936.
- No. 2994. New species of polychaetous annelids of the family Nereidae from California. By Olga Hartman. Pp. 467-480, figs. 46-53. July 11, 1936.
- No. 2995. Four new species of Chalcidoidea parasitic on cactus insects. By A. B. Gahan. Pp. 481-486. August 7, 1936.
- No. 2996. New Tertiary Foraminifera of the genera *Operculina* and *Operculinoides* from North America and the West Indies. By T. Wayland Vaughan and W. S. Cole. Pp. 487-496, pls. 35-38. October 8, 1936.
- No. 2997. Review of the seahorses (*Hippocampus*) found on the coasts of the American continents and of Europe. By Isaac Ginsburg. Pp. 497-594, figs. 54-71. January 18, 1937.
- . Title-page, table of contents, and index, Pp. i-viii, 595-617. March 17, 1937.

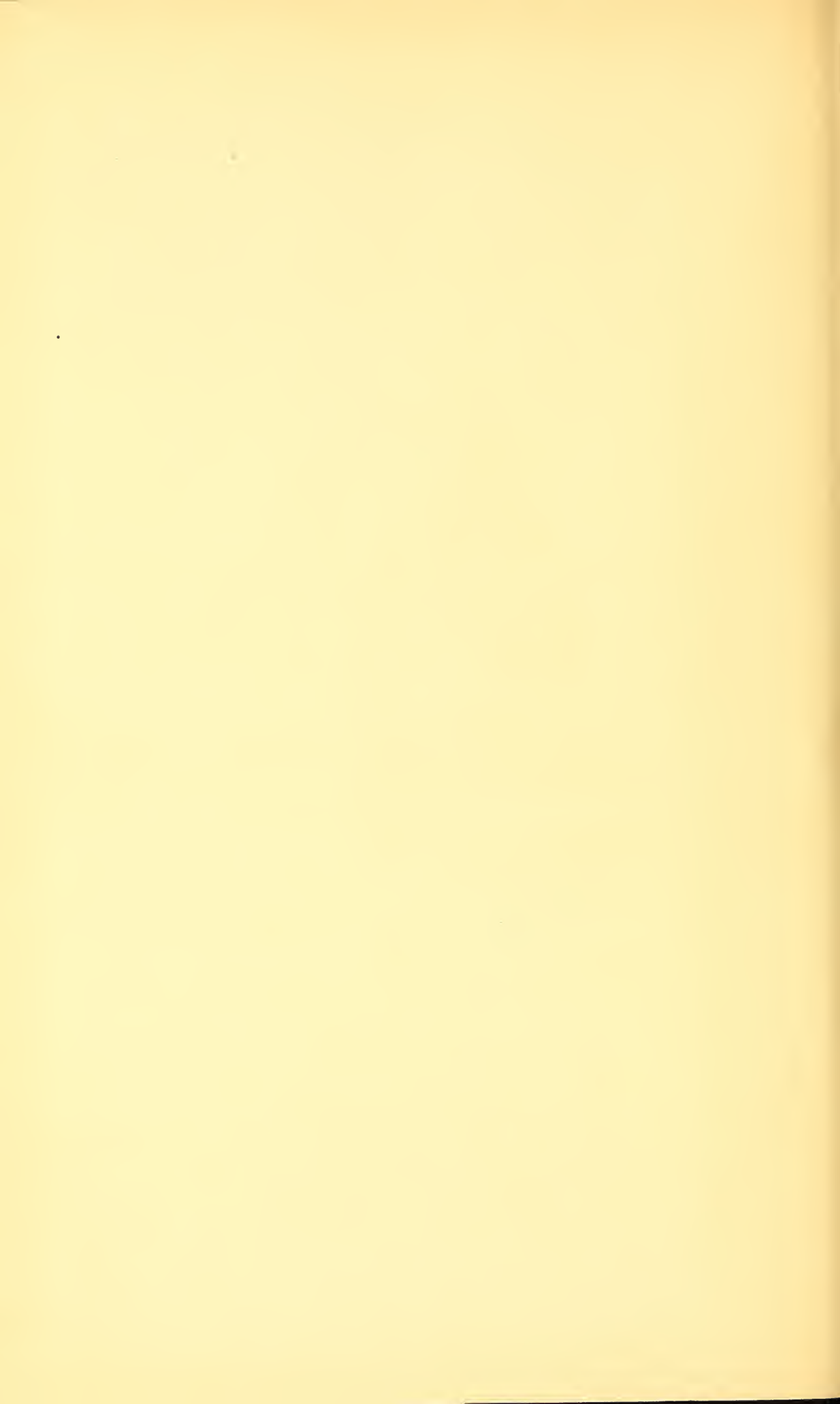
FROM VOLUME 84 OF THE PROCEEDINGS

- No. 2998. Report on the fishes collected by H. C. Raven in Lake Tanganyika in 1920. By George S. Myers. Pp. 1-15, pl. 1. September 24, 1936.
- No. 2999. The ichneumon-flies of the genus *Brachycyrtus* Kriechbaumer. By R. A. Cushman. Pp. 17-24, figs. 1-4. September 26, 1936.

- No. 3000. New cottid fishes from Japan and Bering Sea. By Rolf L. Bolin. Pp. 25-38, figs. 5-8. October 10, 1936.
- No. 3001. Revision of North American beetles of the staphylinid subfamily Tachyporinae—Part 1: Genus *Tachyporus* Gravenhorst. By Richard E. Blackwelder. Pp. 39-54. November 17, 1936.
- No. 3002. Revision of the fishes of the family Microdesmidae, with description of a new species. By Earl D. Reid. Pp. 55-72, figs. 9-12, pl. 2, December 10, 1936.
- No. 3003. Two new species of hawks from the Miocene of Nebraska. By Alexander Wetmore. Pp. 73-78, figs. 13, 14. November 3, 1936.
- No. 3004. A new North American mason-wasp from Virginia, with notes on some allied forms. By Joseph Bequaert. Pp. 79-87, fig. 15. November 24, 1936.
- No. 3005. The nest of *Odynerus tempiferus* var. *macio* Bequaert, with notes on the habits of the wasps. By Austin H. Clark and Grace A. Sandhouse. Pp. 89-95. November 24, 1936.
- No. 3006. Crested millipeds of the family Lysiopetalidae in North America, with descriptions of new genera and species. By H. F. Loomis. Pp. 97-135, figs. 16-18, pls. 3, 4. May 15, 1937.
- No. 3007. Notes on phallostethid fishes. By George S. Myers. Pp. 137-143. January 6, 1937.
- No. 3008. The deep-sea zeomorph fishes of the family Grammicolepidae. By George S. Myers. Pp. 145-156, pls. 5-7. January 18, 1937.
- No. 3009. New North American species of earthworms of the family Megascolecidae. By Frank Smith. Pp. 157-181. January 8, 1937.
- No. 3010. Observations on the trematode genus *Brachycoelium* Dujardin. By Elon E. Byrd. Pp. 183-199, pls. 8, 9. April 7, 1937.
- No. 3011. New muscoid flies (Diptera) in the United States National Museum. By David G. Hall. Pp. 201-216, figs. 19-26. April 6, 1937.
- No. 3012. The pupa of *Myocera tabanivora* Hall (Diptera). By Charles T. Greene. Pp. 217-218, fig. 27. April 6, 1937.
- No. 3013. A new subspecies of the nymphalid butterfly *Polygonia faunus*. By Austin H. Clark. Pp. 219-222, pl. 10. April 9, 1937.
- No. 3014. A new species of trematode from the mud-eel (*Siren lacertina*). By C. Courson Zelif. Pp. 223-226, pl. 11. May 4, 1937.
- No. 3015. Mexican fossil Echini. By Robert Tracy Jackson. Pp. 227-237, pls. 12-15. June 12, 1937.
- No. 3016. Two new beetles of the family Mordellidae from orchids. By Eugene Ray. Pp. 239-241. April 21, 1937.
- No. 3018. A revision of the clapper rails (*Rallus longirostris* Boddaert). By Harry C. Oberholser. Pp. 313-354. June 30, 1937.
- No. 3020. Synopsis of the Puerto Rican beetles of the genus *Mordellistena*, with descriptions of new species. By Eugene Ray. Pp. 389-399, fig. 28. June 26, 1937.







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