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The United States

National Museum

1961 ANNUAL REPORT



The United States
National Museum

*Annual Report for the Year Ended
June 30, 1961*



SMITHSONIAN INSTITUTION

UNITED STATES NATIONAL MUSEUM,
UNDER DIRECTION OF THE SMITHSONIAN INSTITUTION,
Washington, D.C., August 15, 1961.

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, 1961.

Very respectfully,

REMINGTON KELLOGG,
Director, U.S. National Museum.

DR. LEONARD CARMICHAEL,
Secretary, Smithsonian Institution.

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June 30, 1961

United States National Museum

Director: Remington Kellogg

Registrar: Helena M. Weiss

MUSEUM OF NATURAL HISTORY

Director: Albert C. Smith

Mabel A. Byrd, Administrative Officer

Department of Anthropology: T. Dale Stewart, head curator

ARCHEOLOGY: Waldo R. Wedel, curator	Eugene I. Knez, associate curator
Clifford Evans, Jr., associate curator	Robert A. Elder, Jr., assistant curator
Gus W. Van Beek, associate curator	PHYSICAL ANTHROPOLOGY: T. Dale Stewart, acting curator
ETHNOLOGY: Saul H. Riesenber, curator	Marshall T. Newman, associate curator
Gordon D. Gibson, associate curator	A. Joseph Andrews, exhibits specialist

Department of Zoology: Fenner A. Chace, Jr., acting head curator

MAMMALS: David H. Johnson, curator	Ralph E. Crabill, Jr., associate curator
Henry W. Setzer, associate curator	William D. Field, associate curator
Charles O. Handley, Jr., associate curator	Oliver S. Flint, Jr., associate curator
BIRDS: Herbert G. Deignan, curator	MARINE INVERTEBRATES: Fenner A. Chace, Jr., curator
REPTILES AND AMPHIBIANS: Doris M. Cochran, curator	Frederick M. Bayer, associate curator
FISHES: Leonard P. Schultz, curator	Thomas E. Bowman, associate curator
Ernest A. Lachner, associate curator	Charles E. Cutress, Jr., associate curator
William R. Taylor, associate curator	MOLLUSKS: Harald A. Rehder, curator
INSECTS: J. F. Gates Clarke, curator	Joseph P. E. Morrison, associate curator
Oscar L. Cartwright, associate curator	

Department of Botany: Jason R. Swallen, head curator

PHANEROGAMS: Lyman B. Smith, curator	Thomas R. Soderstrom, assistant curator
Emery C. Leonard, associate curator	CRYPTOGAMS: Mason E. Hale, associate curator in charge
Richard S. Cowan, associate curator	Paul S. Conger, associate curator
Velva E. Rudd, associate curator	Robert R. Ireland, assistant curator
John J. Wurdack, associate curator	WOODS: William L. Stern, curator
FERNS: Conrad V. Morton, curator	
GRASSES: Jason R. Swallen, acting curator	

Department of Geology: G. Arthur Cooper, head curator

MINERALOGY AND PETROLOGY: George S. Switzer, curator	Porter M. Kier, associate curator
Edward P. Henderson, associate curator	Richard Cifelli, associate curator
Paul E. Desautels, associate curator	Erle G. Kauffman, associate curator
Roy S. Clarke, Jr., chemist	VERTEBRATE PALEONTOLOGY: C. Lewis Gazin, curator
INVERTEBRATE PALEONTOLOGY AND PALEOBOTANY: Richard S. Boardman, associate curator in charge.	Nicholas Hotton III, associate curator
	Franklin L. Pearce, exhibits specialist

MUSEUM OF HISTORY AND TECHNOLOGY

Director: Frank A. Taylor

Assistant Director: John C. Ewers

William E. Boyle, administrative officer

Department of Science and Technology: Robert P. Multhauf, head curator

PHYSICAL SCIENCES: Robert P. Multhauf, acting curator	curator; in charge of Section of Marine Transportation
MECHANICAL AND CIVIL ENGINEERING: Eugene S. Ferguson, curator; in charge of Section of Tools	Kenneth M. Perry, associate curator
Edwin A. Battison, associate curator, Sections of Light Machinery and Horology	John H. White, Jr., associate curator, Section of Land Transportation
Robert M. Vogel, associate curator, Sections of Heavy Machinery and Civil Engineering	ELECTRICITY: W. James King, curator
TRANSPORTATION: Howard I. Chapelle,	MEDICAL SCIENCES: John B. Blake, curator; in charge of Section of Medical and Dental History
	Sami K. Hamarneh, associate curator, Section of Pharmaceutical History and Health

Department of Arts and Manufactures: Philip W. Bishop, head curator

TEXTILES: Grace L. Rogers, associate curator in charge	MANUFACTURES AND HEAVY INDUSTRIES: Philip W. Bishop, acting curator
CERAMICS AND GLASS: Paul V. Gardner, associate curator in charge	Charles O. Houston, Jr., associate curator
GRAPHIC ARTS: Jacob Kainen, curator	AGRICULTURE AND FOREST PRODUCTS: Edward C. Kendall, associate curator in charge
Eugene Ostroff, associate curator, Section of Photography	
Fuller O. Griffith, associate curator	

Department of Civil History: Richard H. Howland, head curator

Peter C. Welsh, associate curator; Arlene P. Krimgold, assistant curator

POLITICAL HISTORY: Wilcomb E. Washburn, curator

Mrs. Margaret Brown Klapthor, associate curator

Mrs. Anne W. Murray, assistant curator

Herbert R. Collins, assistant curator

CULTURAL HISTORY: C. Malcolm Watkins, curator

Rodris C. Roth, associate curator

John D. Shortridge, associate curator

Cynthia L. Adams, assistant curator

John N. Pearce, assistant curator

Anthony W. Hathaway, junior curator

PHILATELY AND POSTAL HISTORY:

George T. Turner, associate curator in charge

Francis J. McCall, associate curator

Carl H. Scheele, assistant curator

NUMISMATICS: Vladimir Clain-Stefanelli, associate curator in charge

Mrs. Elvira Clain-Stefanelli, associate curator

Department of Armed Forces History: Mendel L. Peterson, head curator

MILITARY HISTORY: Edgar M. Howell, curator

Craddock R. Goins, Jr., associate curator

NAVAL HISTORY: Philip K. Lundeberg, associate curator in charge

Office of Exhibits: John E. Anglim, Chief

Rolland O. Hower, assistant chief

Benjamin W. Lawless, assistant chief

Bela S. Bory, production supervisor

Watson M. Perrygo, in charge of Taxidermy

Honorary Smithsonian Fellows, Collaborators, Associates,
Custodians of Collections, and Honorary Curators

Anthropology

John M. Campbell, Archeology
Neil M. Judd, Anthropology
Herbert W. Krieger, Anthropology
Betty J. Meggers, Archeology
Frank M. Setzler, Anthropology

H. Morgan Smith, Archeology
Walter W. Taylor, Jr., Anthropology
William J. Tobin, Physical Anthropology

Zoology

Doris H. Blake, Insects
J. Bruce Bredin, Biology
Melbourne A. Carriker, Jr., Insects
Ailsa M. Clark, Marine Invertebrates
Carl J. Drake, Insects
Herbert Friedmann, Birds
David C. Graham, Biology
Horton H. Hobbs, Jr., Crayfishes
A. Braizer Howell, Mammals
Frank M. Hull, Insects
Laurence Irving, Birds
William L. Jellison, Insects

Allen McIntosh, Helminthology
J. Percy Moore, Marine Invertebrates
Carl F. W. Muesebeck, Insects
Waldo L. Schmitt, Marine Invertebrates
Benjamin Schwartz, Helminthology
Robert E. Snodgrass, Insects
Thomas E. Snyder, Isoptera
Henry K. Townes, Insects
Alexander Wetmore, Birds
Mrs. Mildred Stratton Wilson, Copepod
Crustacea

Botany

Chester R. Benjamin, Fungi
Agnes Chase, Grasses
Ellsworth P. Killip, Phanerogams
Floyd A. McClure, Grasses

Kittie F. Parker, Phanerogams
John A. Stevenson, Fungi
William N. Watkins, Woods

Geology

Ray S. Bassler, Paleontology
Roland W. Brown, Paleobotany
Preston E. Cloud, Invertebrate Paleontology

C. Wythe Cooke, Invertebrate Paleontology
Waldemar T. Schaller, Mineralogy

History

Mrs. Arthur M. Greenwood, Cultural History
Elmer C. Herber, History
Ivor Noël Hume, Cultural History
Fred W. McKay, Numismatics

Exhibits

William L. Brown, Taxidermy

Annual Report of
the Director
United States National Museum

Introduction

From the earliest days of our national existence the Congress has shown interest in the scientific progress of our Nation. Exploration of our country and the study of its natural resources have been encouraged and supported. But at first no provision was made to preserve the novel scientific materials collected by early governmental expeditions and surveys.

However, in 1846 the Regents of the newly established Smithsonian Institution, at the request of the 29th Congress, agreed to accept responsibility for the care of these collections, provided that adequate space and financial aid be granted. As a result, the United States National Museum was established in March 1857 as a Federal Bureau, to be administered by the Smithsonian Institution and financially supported by the Government of the United States.

Over the years, collections have flowed into the United States National Museum, keeping pace with our expanding national boundaries and the amazing progress of science. One of the most important functions of any museum is to preserve and make available the objects confided to its care. In the field of natural history—which includes many aspects of zoology, botany, geology, and anthropology—it is from collections of these objects that much of our basic knowledge is derived. Such objects, when they are wisely collected and carefully documented and arranged, make the museum an orderly, useful



By June 1961 the foundation of the east wing of the Natural History building had been completed and work on the first floor was in progress. In this view from across Constitution Avenue, the east end of the wing is partly hidden by the tree in the foreground. At the left is seen Ninth Street, NW., and in the background, the Arts and Industries building.

treasure house of reference materials—a reservoir of factual information from which layman and scientist alike benefit.

In 1904 the designers of our Natural History building provided what they thought was space sufficient for normal growth. At that time they could hardly have foreseen the impending explosive expansion of scientific knowledge. The older scientific disciplines have since expanded into broader fields, and new sciences have been born and have come of age. The importance of the Museum to the Nation was also underestimated by the designers; they did not anticipate the increasing number of individuals and agencies that would find daily use of the collections essential to their work.

Our natural history collections have kept pace with these new developments and have even anticipated them, but the facilities for accommodating this vast treasure have remained static for more than half a century. As a result, the new building had reached its efficient capacity in the 1920's, and by 1928 its Director was already pointing out the need for larger quarters for his staff and collections.

Since 1930 the natural history collections that are basic to scientific work in zoology, botany, geology, and anthropology have nearly tripled in size in slightly more than 30 years, even though their growth is carefully controlled and only those specimens believed essential to scientific progress are accessioned.

It is, therefore, a source of profound satisfaction to the Regents of the Smithsonian Institution, as well as to its staff and its well-wishers throughout the world, that the Congress has now made available the funds needed for the construction of additions to the Museum of Natural History building of the U.S. National Museum. At the end of fiscal year 1961 the east wing construction was well under way, its completion being scheduled for the spring of 1963. Plans for the west wing and for modernization of the existing building are approaching completion, and it is confidently anticipated that the entire project will be completed, and the new wings fully occupied, during 1964.

The two additions to the existing building will be essentially mirror images of one another; each will have over-all dimensions of 199 by 180 feet and will consist of a basement, ground floor, and six upper floors. The two wings together will have a gross area of approximately 537,000 square feet and a net area of about 390,000 square feet. Each will provide service facilities for the visiting public, such as rest-rooms, and elevators giving access to exhibit halls in the existing building. The portion of each wing abutting the existing building will contain a mechanical equipment area that will house air-conditioning equipment, and through these areas and a cooling tower in the

present east court the wings and the present building will be completely air-conditioned. The advantages of this for the visiting public, the staff and scientific visitors, and for the collections themselves, are too obvious to emphasize.

Some of the many essentials provided by this new construction include efficiently located and arranged storage space that gives maximum protection and accessibility to the collections; modern, specialized laboratories and workrooms that promote maximum efficiency in both the use of the collections and the efforts of the scientists; general service laboratories that consolidate those needs shared by many disciplines; and workshops for the preparation and mounting of specimens and the construction and repair of exhibits.

For the staff members of the Museum of Natural History, for the large number of scientists from other Federal agencies who are permanently housed in the Museum and use its materials constantly, and for the many hundreds of visiting scientists who yearly consult the collections for periods of days or months, this building program now in its final stage represents the culmination of years of planning and hoping. The entire scientific community of the country shares our satisfaction in knowing that the Government's irreplaceable and basic tools of natural history will soon be housed in a manner fitting their scientific significance.

The general arrangement of each floor in the new wings is essentially standardized; there will be a central area for the appropriate reference collection, surrounded on the three outside walls of the wing by a series of workrooms and laboratories. These will all be approximately 19 feet on one dimension and will vary in the other according to the use proposed for them. All such rooms will have excellent daylight and will contain the facilities needed for the intended use as designated by the members of the scientific staff, who in each case have designed the details of their own areas. On the average, each floor will have between 20 and 30 workrooms or laboratories, and each division will center its activities within a well-demarcated area.

The east wing is designed to house, on approximately 4½ floors, practically all the functions of the department of geology and the activities associated with it. The top floor of this wing will be utilized by the division of birds, and a large part of the fifth floor by the division of mollusks, these of course being two parts of the large department of zoology.

The west wing will house the division of fishes on its ground floor, the division of marine invertebrates on its first and much of its second floor, the division of reptiles and amphibians on the rest of the second floor, the entire department of botany on the third and fourth floors,

and the division of insects on the fifth and sixth floors, a portion of which will also provide some storage space for the division of mammals, which otherwise will occupy the adjacent top floor of the western part of the existing building.

Space on the third floor of the present building will be remodeled to permit the suitable expansion of the entire department of anthropology and the establishment of an adequate photographic laboratory that will provide service to all units of the Museum of Natural History. Three existing attic areas of the present building, to be adequately lighted and air-conditioned, will permit housing of some of the study collections of the department of anthropology and the division of mammals.

With the removal of scientific activities from the entire first and second floors of the present building, two public halls originally designed for exhibits will be returned to their proper use. The ground floor of the existing building will ultimately house an expanded central Smithsonian Library, some study areas of the division of fishes, a modernized cold room for the important fur collection of the division of mammals, completely renovated facilities for those activities of the office of exhibits that pertain to natural history, and improved shops of the buildings management department.

The building program here discussed opens many vistas of progress for our staff scientists and their colleagues, who are concerned equally with care of the collections and the research, based upon them, that expands our knowledge. Science is never static. A museum does not progress merely by keeping in excellent condition the materials in its care, although custodial competence is certainly a prerequisite to advancement. Only by applying modern viewpoints and modern techniques can the traditional branches of science progress. Staff members of the Museum of Natural History have these viewpoints, and with the space and equipment that is provided by the new additions, they can implement their research by modern techniques. They eagerly welcome this opportunity to project their skills in new and potentially profitable directions.



Cornerstone of the Museum of History and Technology was laid May 19, 1961. It is located at the north-east corner of the building (lower right).

Buildings

Additions to the Museum of Natural History

For the construction of the east wing extension and for alterations and air conditioning of the existing Natural History building a contract was awarded January 3, 1961, to the George Hyman Construction Company, for the sum of \$7,748,000. Construction was started January 6.

At the close of the fiscal year the project was 17.5 percent complete. Excavation for all major portions of the east wing extension was completed, the basement raft slab was approximately 80 percent constructed, and the depressed areas in the northeast corner of the basement had been waterproofed. Foundation walls for the mechanical equipment buildings in the east and west courts of the Natural History building were poured. All underground plumbing for the east court equipment building had been inspected and backfilled, and chilled-water and condenser-water lines in the tunnel of the central equipment building in the east court were 95 percent laid. Construction of the rerouted trunk sewer was finished the first week of May 1961.

The General Services Administration has selected Mills, Petticord and Mills, architects for the east wing extension, to complete plans and specifications for the design of the west wing extension.

Museum of History and Technology

The cornerstone of the Museum of History and Technology was laid May 19, 1961. The Honorable Earl Warren, Chief Justice of the United States Supreme Court and Chancellor of the Smithsonian Institution, together with Senator Clinton P. Anderson, Regent of the Smithsonian Institution and Chairman of the Joint Congressional Committee for a Museum of History and Technology, spoke of the history and purpose of the new building. The Regents of the Smithsonian Institution and members of the Joint Congressional Committee participated in placing the mortar for the stone. At the close of the fiscal year the building was approximately 50 percent complete.

Details of the progress of construction during the year and a brief description of the exhibits planned for the building are contained in the report of the Joint Congressional Committee (Senate Report No. 365, 87th Cong. 1st Sess., June 12, 1961), as follows:

* A BUILDING FOR A MUSEUM OF HISTORY AND TECHNOLOGY

The Joint Congressional Committee on Construction of a Building for a Museum of History and Technology for the Smithsonian Institution submits this report on the progress of the planning and construction of the building.

The last report of the committee dated May 23, 1960, described the beginning of construction of the building for the Smithsonian Institution's Museum of History and Technology. Construction, as of March 1961, reached 35 percent of completion, but the rate of progress has not attained what was originally scheduled. The normal expected progress to March 15, 1961, was 59 percent and every effort will be made to speed the remaining work in order that the building may be finished not later than July 1, 1962, even though the present anticipated date of completion is several months beyond that.

All structural steel has been erected, the concrete decks set in place on all floors, the concrete walls completed from the basement floor to the second floor, and precast wall panels which will backup the exterior stone are now being erected above the second floor. The mechanical work is more advanced than normally would be expected at this stage of construction. Most of this progress was accomplished prior to December 10, 1960, when Washington began to experience its worst winter weather in recent years. Practically no general construction was performed on this, or, we are informed, on any other large local building in the period from December 10 to December 31 because of snow, cold, and rain.

On January 9, 1961, officers of the Smithsonian Institution, the General Services Administration, and the firm of supervisory architects called on the chairman of the committee to discuss the progress of the building. At that time construction was 30 percent completed. This was 11 percentage points below the expected status of construction for the date. The representatives of the General Services Administration stated that the rate of progress might be improved considerably by expanding the work force engaged in concrete work. In this way space might be made available more rapidly for work by the mechanical and other trades. It was estimated at that time that the concrete work could be completed in about 3 months of favorable pouring weather and the exterior stone in about 9 months. Steps to expand the work force and to minimize the delay were discussed. A summary of the matters considered was sent to the members of the committee in the form of the 11th monthly report from the Smithsonian Institution. Monthly meetings between officials of the regional office of the Public Buildings Service were begun as a result of the discussion and within the following 2 months the average work force was increased from 250 men to 425.

Subsequent to January 9, 1961, four heavy snowstorms occurring about a week apart caused another month's delay in the pouring of concrete. Temporary heat in enclosed sections of the building permitted some types of interior work to proceed although many other major construction projects in the area were completely halted.

The General Services Administration recently reported that unexpectedly large quantities of stone had to be removed from the quarries to produce the volume of acceptable marble required for the exterior of the building, but that all appropriate means were being taken to expedite the production of the finished marble. The first shipment of marble arrived at the building site in March 1961.

The General Services Administration, after evaluating all delaying factors, has advised that the anticipated date of completion is now September 1962. This statement was qualified with the assurance that every practicable way of improving the schedule would be sought.

The plan for the exhibits within the building has been described in detail in previous reports made by the committee to the Congress. The purpose of the exhibits will be to present to the millions of citizens who visit the Smithsonian

Institution each year a vital exposition of its great collections, commemorating the national heritage and illustrating the historical development of the basic elements in the life of the country. Original objects associated with famous Americans and historical events, including the original Star-Spangled Banner which inspired Francis Scott Key to write the national anthem, the desk at which Jefferson drafted the Declaration of Independence, Washington's sword, and many other memorabilia will graphically commemorate stirring events. Humble objects of everyday use will be shown in authentic settings to point out the evolution of our way of life.

For the first time in any museum original objects of great historical and individual importance will be combined with period furniture, coaches, tools, contemporary prints of home life and business activities, weapons, uniforms, documents, coins, engines, printing machines, watercraft, and many other things, to form chronological exhibits of the growth of our American civilization. Old plows and tractors, mills, machines, vehicles, locomotives, and original patent models of the electric light, the telephone, the typewriter, and many other devices, will be woven into exhibits illustrating important steps in our agricultural and industrial development. The history of science and technology will be traced in exhibits of the original apparatus of the scientists, relating their great discoveries to the machines and structures in which our inventors and engineers applied new scientific knowledge for the benefit of mankind.

The building, when completed, and fully installed with its exhibits, will probably display a wider scope and variety of collections than any other museum. Exhibition and preservation equipment, required for a museum of this complex character, is being built into the building to accommodate the initial installations and also to provide flexibility to permit the museum to adjust its exhibits and collections to keep pace with the future development of the country and its technology.

Wide column spacing with nonbearing dividing walls, under-floor ducts to carry light and power wires will allow changes in the arrangement of exhibits. A ceiling design is used which will permit room lighting as well as the accent lighting of large objects. These lights can be changed economically when new exhibits are put into place. These are among the features which will provide for the continuing efficient use of the building. Latest exhibition techniques will be used to make the collections meaningful to the public. Recorded spoken descriptions of the outstanding objects will be transmitted electronically to ear-phones worn by visitors who wish to avail themselves of the most detailed information. Television camera cables are being built-in to facilitate the broadcasting of educational programs originating in the exhibition halls, thereby adding to the usefulness of the collections. The architects have projected the Smithsonian Institution's broad experience with extensive collections and large crowds of museum visitors into a coordinated plan designed to receive and direct visitors smoothly and comfortably through the very extensive exhibit areas.

The building will have five floors and a basement. Two of the three exhibition floors have entrances at the grade levels of the adjacent streets. On the two floors above the main exhibition floors are workrooms for the curatorial staff and space to house the very large reserve collections of the Smithsonian in the fields of history and technology. These reserve collections will be open to examination by the thousands of visitors who come to the Smithsonian with special interests and by research students, historians, collectors, and writers who wish to study them. The basement will contain maintenance shops and laboratories for the

preservation and renovation of the great variety of priceless objects in the collections. Here also will be public exhibits of mining history and technology.

The space and equipment for these varied and specialized museum functions have been thoughtfully planned by the staff of the Smithsonian and by the architects and have been enclosed in an exterior building form which has been favorably described as of a contemporary design which nevertheless retains classic proportions appropriate to the building's location on the Mall.

Through the death of James Kellum Smith, distinguished architect and sole surviving partner of McKim, Mead and White, the Smithsonian Institution suffered the loss of a dedicated friend and adviser. The firm was dissolved, but the architects long associated with the design of the building will continue to advise the Smithsonian as members and associates of the new firm of Steinman, Cain and White.

The firm of Mills, Petticord and Mills, associate architects of the building, are supervising the construction of the building for the General Services Administration. Commander Harold L. Haworth, USN (Ret.) is the resident engineer, in charge.

Mr. Henry Norair, president of Norair Engineering Corporation, died April 12, 1961. Mr. Norair, as the principal of the firm constructing the building, had devoted close personal attention to the work. Mr. Richard Norair succeeded as president of the firm and Mr. T. H. Maichek, vice-president, is continuing as project manager for the building.

Mr. John E. Cudd, liaison architect of the Public Buildings Service, General Services Administration, continued to contribute his sound architectural judgment and skills to the resolution of many questions arising out of the work. Mr. A. R. Eno, supervisory engineer, has observed the day-to-day progress of the construction for the Smithsonian Institution and has assisted skillfully in the solution of many problems developing out of job conditions.

Funds Allotted

From the funds appropriated by Congress to carry on the operations of the Smithsonian Institution and its bureaus during the fiscal year 1961, the sum of \$4,067,842 was obligated by the United States National Museum for the preservation, increase, and study of the national collections of anthropological, zoological, botanical, and geological materials, as well as materials illustrative of engineering, technology, industry, graphic arts, and history (this amount includes sums expended for the program of exhibits modernization).

Exhibits

The systematic, museum-wide program for the modernization of exhibits moved steadily forward during the year. Three large exhibition halls in the Natural History building were renovated and reopened to the public—the hall of fossil plants and invertebrates, the hall of fossil mammals, and the first of the two halls of North American archeology. At the end of this eighth year of the continuing modernization program nine of the fifteen galleries on the first floor and four second-floor halls had been renovated and opened to public view. Each hall has presented distinct problems in exhibition because of the different subject matter interpreted in each. However, each renovated gallery reveals marked improvements in the organization of topics, in the attractiveness of presentation, and in the simplicity of labeling that combine to make it a much more effective educational medium than was the series of exhibits that occupied the hall prior to modernization. In each hall appear selected newly prepared or acquired specimens which help to provide a better rounded interpretation of the field of science represented in the gallery.

Museum director Albert C. Smith assumed the chairmanship of the committee coordinating and supervising the modernization of natural history exhibits following the retirement of Herbert Friedmann, head curator of zoology. Dr. Friedmann had served with distinction as a member of the exhibits planning committee since its inception in 1950, and had played an active and substantial role in the organization and development of the exhibits modernization program.

The major objective of the exhibits program of the Museum of History and Technology, which is being coordinated by assistant director John C. Ewers, is the development of exhibits for the new building now under construction. However, many exhibits destined for future display in the new museum are being installed in the Arts and Industries building until the Museum of History and Technology is ready to receive them. During the year a hall of monetary history and a hall of petroleum were installed, the series of exhibits on the textiles gallery was completed, extensive additions were made to the exhibits in medicine, dentistry, and pharmacy, and other new displays were placed on view in various locations in the Arts and Industries building.

Exhibits for a number of halls in the new building were prepared in the laboratory and carefully stored until they can be installed in

that museum. These included displays for the halls of costumes, political history, ceramics, everyday life in the American past, physics, railroads, Armed Forces history, and ordnance. Full scale period interiors and/or miniature groups also were prepared for the halls of tools, light machinery, civil engineering, the growth of the United States, and the First Ladies hall. Renovation of historic machines, tools, weapons, vehicles, musical instruments, costumes, and textiles progressed in the museum workshops, and the specification and construction of models of such large objects as ships, locomotives, and machine tools for exhibition in the new museum continued.

Exhibits chief John E. Anglim continued to provide overall supervision of the design of exhibition halls and the design and preparation of exhibits for the entire museum. The exhibits work for the Museum of History and Technology was supervised by Benjamin W. Lawless, with the assistance of Robert Widder in design, Bela S. Bory in production, and Robert Klinger in the model shop. Rolland O. Hower, assisted by Thomas Baker and Julius Tretick, supervised the renovation of exhibition halls in the Museum of Natural History. The design of the renovated halls in existing buildings has been greatly aided by Richard S. Johnson, design branch chief, and John H. Morrissey, architectural branch chief of the architectural and structural division of the Public Buildings Service, General Services Administration, and by Luther H. Flouton, Charles J. Nora, and Julius J. Dickerson, design architects of that agency. Carroll Lusk, museum lighting specialist of Syracuse, N.Y., provided valuable consultative assistance to designers of exhibition halls for the Museum of History and Technology. Joseph G. Weiner, with the assistance of Constance Minkin, Basil Andronicos, and Edna Owens, continued the editing of the curators' drafts of exhibit labels.

The exhibits staff continued to provide timely cooperation to other branches of the Smithsonian Institution. Personnel of the Museum of History and Technology laboratory completed the preparation and installation of exhibits in the Air and Space building. These exhibits were designed by James Mahoney in cooperation with director Philip S. Hopkins and the members of his curatorial staff. Mr. Mahoney also designed the temporary exhibition "Contemporary American Ceramics" organized by the American Craftsman's Council and circulated in Europe by the United States Information Agency, which was displayed in the Natural History building May 29 through June 30, 1961. Robert W. Widder designed the installation of a special exhibition, "Chinese Art Treasures," sponsored by the Government of the Republic of China, which opened in the National Gallery of Art on May 27. The staff of the Museum of Natural History laboratory assisted the National Collection of Fine Arts in the design and installation of a temporary exhibition, "Art and Archeology of Viet



At opening of special exhibit of art and archeology of Vietnam, Ambassador and Mrs. Tran Van Chuong examine Vietnamese artifacts with Director Remington Kellogg and Thomas M. Beggs, director of the National Collection of Fine Arts, Smithsonian Institution.

Nam" (October 27–December 8, 1960), and assisted the Smithsonian Traveling Exhibition Service in the preparation of four temporary exhibitions in the foyer of the Natural History building, entitled "Folk Art from Rumania" (July 16–August 7, 1960), "Two Centuries of Danish Deep Sea Research" (October 14–November 13, 1960), "The World of Werner Bischoff" (February 11–March 5, 1961), and "The New Theatre in Germany" (May 6–28, 1961).

Anthropology

The first of two modernized halls of North American archeology was opened to the public on June 24, 1961. A number of the 34 exhibits in this hall portray and explain important aspects of aboriginal North American life—Indian methods of mining and quarrying, techniques of making tools, weapons and other useful objects of stone,

various uses of tobacco, Indian food crops and their cultivation. Metal and glass objects found in archeological sites show the influence of these trade materials upon Indian culture during the historic period. About half the exhibits in the hall interpret the prehistoric cultures of the North American Arctic, the North Pacific Coast, California, and the Southwest by means of selected artifacts, graphic materials, life-sized and miniature groups. The remarkable skill of the prehistoric peoples in arts and crafts is shown through the display of such examples as small ivory carvings of the Old Bering Sea Culture, large wood carvings of the Aleutian Islands, and basketry and pottery made by Indians of the Southwest. The exhibits in this hall were planned by curator Waldo R. Wedel, and the architectural design of the hall was prepared by exhibits designer Peter DeAnna.

Other prehistoric cultures of North America will be interpreted in adjoining hall 22, the contract remodeling of which was completed early in the year. Curator of archeology Waldo R. Wedel began planning the detailed contents of the exhibits in this hall.

Associate curator Gus W. Van Beek, in collaboration with exhibits designer Ann Karras, initiated planning for the modernization of the Old World archeology exhibits. These will present a synopsis of prehistoric cultures and the high cultures of the ancient Near East and Mediterranean Basin.

Contract construction in the hall which will house renovated exhibits on the life of the peoples of the Pacific Islands and South and Southeast Asia was completed in May. Curator Saul Riesenbergh wrote a number of the exhibit unit scripts, and designer Dorothy Guthrie began the design of displays for this hall. The adjacent hall, which will contain the revised exhibits on the peoples of Africa and Eastern Asia, was cleared of all old fixtures and new construction was begun. When this hall is reopened, all four ethnological halls in the museum will have been completely renovated and modernized.

During the year associate curator of ethnology Eugene I. Knez made a field trip to Asia to collect contemporary ethnological material for exhibition in these halls. With the assistance of scholars and officials, material was acquired from Pakistan, India, Burma, Cambodia, Viet-Nam, Hong Kong, Taiwan, Korea, and Japan. In certain countries of Southeast Asia where local scholars have not concerned themselves particularly with the ethnology of their own people, French scientists of the *École Française d'Extrême Orient* assigned to these areas are rendering valuable assistance. Because the Chinese mainland is inaccessible, the resources of Hong Kong and Taiwan are being used as far as possible in acquiring Chinese collections. An integrated village exhibit including specimens, sketches, and documentation needed to present a particular theme has been received from West

Pakistan. The Korean Government has agreed to loan for exhibit a rare iron Buddha of the Koryo Dynasty.

Associate curator Gordon D. Gibson, presently engaged in an African field study, is collecting ethnological materials for specific exhibits in hall 7.

In order to provide space for the storage of materials removed from hall 7, it became necessary to remove from exhibition and store all the semipublic displays of the division of physical anthropology on the third floor. Among these are: trephining, cranial deformity, criteria for sexual identification of the skeleton, relationship of size of longbone to stage of tooth eruption, and morphological variations in bones.

Zoology

Curatorial planning of exhibits for the large hall of oceanic life, now under construction, comprised the major exhibits project of the department during the year. Acting head curator Fenner A. Chace, Jr., succeeded Dr. Herbert Friedmann as coordinator of the planning for this hall upon the latter's retirement. All members of the curatorial staffs of the divisions of fishes, marine invertebrates, and mollusks were actively engaged in this project, and those of the divisions of mammals, and of reptiles and amphibians were to some extent involved. Development of this hall requires the preparation of hundreds of lifelike models, for which detailed specifications must be drawn up by curatorial staff members from figures in the literature, preserved specimens in the collections, color slides of living or recently collected material, and from aquarium specimens.

Four field trips have been made to collect materials and photographs for this hall. Dr. Joseph P. E. Morrison and James Watson collected near Ocean Springs, Miss., and Beaufort, N.C., from May 14 to June 15, 1960, to obtain specimens and data for the marshy shore and sandy beach groups. Charles E. Cutress, Jr., and Raymond E. Hays visited Cape Arago, Oreg., between August 29 and September 25, 1960, collecting for the Pacific coast rocky shore and tidepool habitat group. Dr. Frederick M. Bayer and Anthony DiStefano conducted field work at Soldier Key off Miami, Fla., from September 6 to October 12, 1960, in connection with the coral shore group. Dr. Morrison and Thomas G. Baker were in New Caledonia from November 16, 1960, to February 22, 1961, gathering material and information for the coral reef exhibit. Mr. Baker succeeded Chris Karras as designer responsible for the exhibition in this hall.

Several meetings of the curatorial and exhibits staffs were held during the year to determine the general themes of the hall of osteology and the hall of cold-blooded vertebrates.

An effort will be made to place upon exhibition, either in the hall of oceanic life or in the hall of cold-blooded vertebrates, fishes of near record size, especially those of interest to sportsmen and commercial fishermen. This project was materially enhanced when Mr. Al Pflueger of North Miami, Fla., donated five beautifully finished casts and one unfinished cast of fishes in that category. Four of the finished casts are now on exhibition: a wahoo, 77 inches long; a green moray, 74 inches; a dolphin, 63 inches; and a Franklin D. Roosevelt Atlantic sailfish that weighed 140 pounds. Of special interest is an unfinished cast of a swordfish, 14 feet, 11¼ inches long and weighing 1,182 pounds, the largest one so far recorded. Mr. Warren F. Rathjen of the U.S. Fish and Wildlife Service transferred to the national collections a western Atlantic blue marlin that measured 12 feet, 3 inches—only 9 inches shorter than the known record for this species. Casts of the swordfish and blue marlin, when completed, will be placed upon exhibition. Another interesting model, the unique deep-sea anglerfish *Galatheathautuma axeli*, with a luminous area inside its mouth, was donated by the Universitets Zoologiske Museum, Copenhagen.

Curator Harald A. Rehder prepared a temporary exhibition, "The World of Shells," for display in Museum of Natural History foyer during June for the 28th annual meeting of the American Malacological Union, June 20 to 23, 1961. Part of this exhibit will later be placed on permanent display on the second floor of the museum.

Before his retirement, Dr. Herbert Friedmann completed the manuscript for a guidebook to the hall devoted to "Birds of the World," and the color and black-and-white photographs to illustrate this booklet were taken. This is the first guidebook to a renovated hall in the Museum of Natural History to be prepared.

Geology

Three renovated halls of fossils at the east end of the first floor of the Natural History building were formally opened to the public on June 6, 1961. They are designed to show the story of life through the ages from the earliest known fossils, dated 1,600 million years ago, to the great mammalian fauna of the Cenozoic Era.

The hall of fossil plants and invertebrate animals is divided into four alcoves, the first of which shows what fossils are, what animals have been found as fossils, how animals become entombed in rocks, and how the geological time scale was formed. The second alcove contains a synoptic exhibit of fossil plants featuring a case on the coal-forming species. The third provides an exhibition of fossil backboneless animals showing the progression in time of the sponges,



In this exhibit, added to the hall of fossil fishes, the lower Permian flesh-eater *Dimetrodon* is attacking *Edaphosaurus*, a primitive mammal-like reptile that lived some 220 million years ago in the Texas area.

corals, snails, clams, trilobites, and other ancient shelled creatures. A case of "Giants of the Past," displaying some of the largest known invertebrate fossils, is of special interest. The fourth alcove comprises a series of dioramas depicting ancient sea bottoms for each of the Paleozoic systems and for the Cretaceous of the Mesozoic, with their colorful forms reconstructed to appear as they were in life. The diorama of the Pennsylvanian system is the only one of its kind, depicting a marine environment rather than the coal swamp environment portrayed in reconstructions in many other museums. This hall was developed under the scientific supervision of curator G. Arthur Cooper with the assistance of exhibits designer Gorman Bond.

The hall of fossil fishes had been informally reopened in June 1960. However, a life-sized group, completed this year, showing a conflict between two kinds of pelycosaurs, or fin-backed reptiles, as it might have happened about 260 million years ago, adds interest to this hall.

The third hall, the age of mammals in North America, is divided into five general areas, one for each of the epochs of Tertiary time from



Fauna and flora of middle Eocene in the Wyoming area, first of four murals, depicting different epochs, being painted by Museum artist Jay H. Matternes.

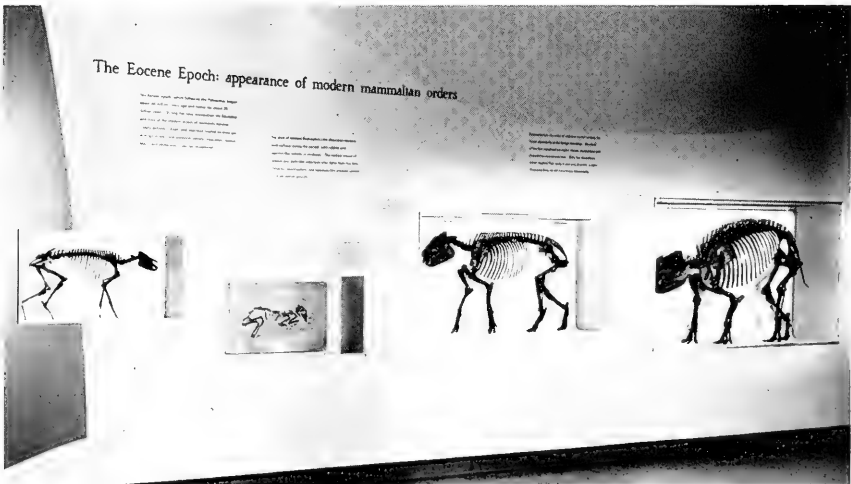
Paleocene to Pliocene, a period of 70 million years. Skeletons representing the better-known groups of mammals are supplemented by a display of skulls for each of the epochs. Enlarged photographs show field localities where some of these fossils were found. The large mural by Mr. Jay H. Matternes, depicting a mammalian assemblage with associated reptiles and plants of the Bridger middle Eocene, was completed. A second mural, showing a Harrisonian, or early Miocene, life group, is nearly finished. Two additional murals portraying assemblages of characteristic mammals of other epochs will appear in this hall. Curator C. Lewis Gazin and exhibits designer Ann Karras collaborated closely in the development of this hall.

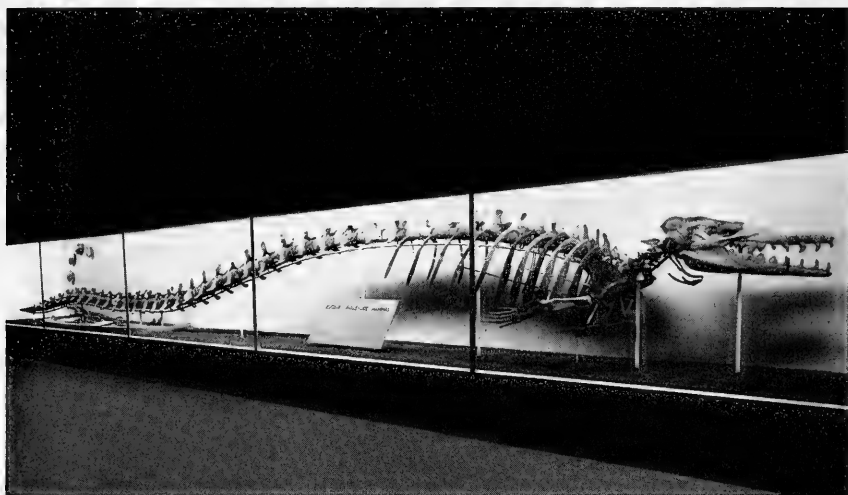
Architects' plans for renovating the hall in which are displayed the dinosaurs and the Mesozoic reptiles were completed and the con-



Largest North American land mammal of the Oligocene, 35–40 million years ago, was the *Brontotherium*, last of the titanotheres. On the wall behind visitors are examples of even-toed ungulates (hoofed mammals) of the Oligocene.

Ancestral forms of odd-toed ungulates (left to right: tapir, horse, rhinoceros, titanothere) of the middle Eocene, about 50 million years ago. The Titanothere family is now extinct.





The Eocene whale *Basilosaurus cetoides*, from Alabama, in the newly reconditioned hall of fossil mammals.

struction contract was let in June. The layout of exhibits was designed by Ann Karras under the scientific supervision of associate curator Nicholas Hotton III. This hall was closed to the public in March. All the wall exhibits were taken down and the larger skeletons were grouped together in the center for protective casing, prior to new construction work. Most of the smaller specimens have been temporarily stored, as have most of the already mounted Pleistocene mammals.

Because of the necessarily long period of time during which the dinosaur and Pleistocene animal halls will be closed, a selection of these animals of popular interest has been moved to the rotunda for display.

A temporary meteorite exhibit was placed in the areaway connecting the jade room and the renovated North American archeology hall 21 on the second floor. Planned and installed under the direction of associate curator Edward P. Henderson with the collaboration of exhibits designer James Piper, this exhibition was opened to the public on June 24, 1961.

The laboratory staff of the Department of Geology performed much of its work in the exhibit halls during the year. However, preparation in the laboratory has progressed on the re-embedding in plaster, reinforcement and reparation of the agate slab of Miocene mammal remains and the further preparation of reptilian materials, such as the plesiosaur, phytosaur, and mosasaur, which have required re-mounting and other changes.

Science and Technology

During the year sixteen new exhibits interpreting the history of medicine, dentistry, and pharmacy were installed on the east gallery of the Arts and Industries building, bringing the total of modernized exhibits in the field of medical science to twenty-eight. Designed by Ronald Elbert and Fred Craig from scripts prepared by curator John B. Blake and associate curator Sami K. Hamarneh, these cases illustrate the practice of bloodletting through the ages, the development of surgical anesthesia, spectacles, medicine chests, antique drug jars, tools of the apothecary, and dental instruments. The exhibits were planned for the future halls of the Museum of History and Technology.

Dr. Blake completed the scripts for the remaining exhibits in medical and dental history for the Museum of History and Technology, and the design of these units was begun in May. Dr. Hamarneh thoroughly revised the scripts for additional case units for the hall of pharmacy and provided technical supervision for the restoration and trial erection of an 1890 period drug store which will be a feature exhibit of this hall in the new museum. A new exhibit on the eye was installed in the hall of health.

Under the scientific direction of head curator Robert P. Multhauf, the design of exhibits for the hall of physics and astronomy by Benjamin W. Lawless and Ronald Elbert and for the hall of chemistry by Barbara Bowes progressed steadily during the year. Production of exhibits in the sections devoted to early physical science and classical physics was begun May 1 and a dozen units were completed by the end of June. A special exhibition of the "geophysical globe," a new relief globe of superior accuracy, was held in the rotunda of the Arts and Industries building during April.

Acting curator W. James King continued the detailed planning of exhibits for the hall of electricity with the assistance of consultants Robert A. Chipman of the University of Toledo, Guenter Schwarz of Florida State University, and Haraden Pratt, Secretary of the Institute of Radio Engineers. A diorama prepared for exhibition in this hall of the new building, depicting the broadcast of a program from the studio of KDKA (one of the pioneer commercial broadcasting stations in the world) during the winter of 1921-22, was placed on public display.

Curator Howard I. Chapelle continued the preparation of scripts for the watercraft hall. An exhibition case was designed which provides a unique and flexible system for the display of ship models of varying sizes and weights. A large percentage of the ship models in the collections have been restored and replaced in the cases in the existing watercraft hall, giving that area a cleaner and neater appearance.



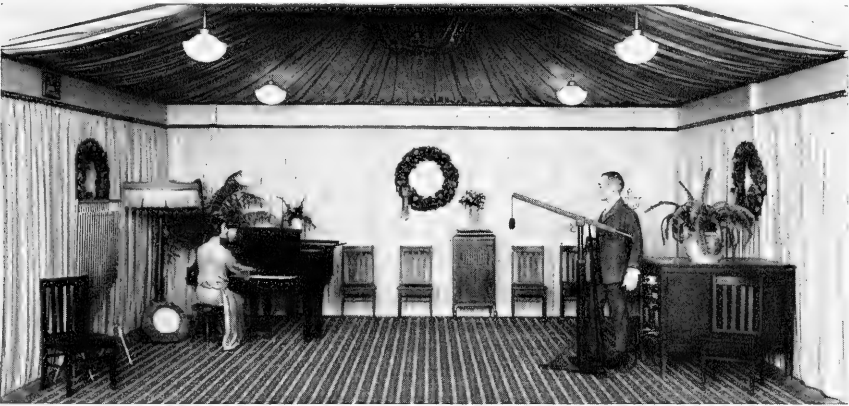
Exhibits worker installing display of early medical X-ray equipment in hall of medical sciences.

Among the 16 new medical science exhibits were displays tracing the early development of antibiotics and the history of pill making.



New ship models prepared for the historical series in the new museum have been placed on exhibition as soon as they are received. A special exhibition, featuring the model of the 1819 steamship *Savannah*, was presented in the watercraft hall in celebration of National Maritime Week, May 21-27.

Associate curator John H. White, Jr., wrote scripts for the railroad hall, and these were used by exhibits designers James Mahoney and Virginia Kneitel in designing units for the street railway and locomotive sections of the hall. Production of street railway exhibits was begun in May. The locomotive *Pioneer*, which served the Cumberland



Diorama of radio broadcasting studio of the early 1920's, complete with wind-up phonograph, was added to displays of early history of electronics.

Valley Railroad in 1851, was placed on exhibition in the east hall in February, and the cable car was removed for restoration prior to its exhibition in the new building. New locomotive and street car models have replaced old and inaccurate ones, and a scale model of the Norris Locomotive Works has been added to the east hall exhibits.

Curator Eugene S. Ferguson wrote the exhibits script, collected major specimens, and prepared specifications for models and dioramas for the hall of tools of the Museum of History and Technology. The design of exhibits for this hall by Harry Hart and Bright Springman is nearing completion. Adequate equipment for a pre-Civil War machine shop was obtained after a search extending over four years, and the systematic restoration of machine tools and other objects for the hall of tools is going forward at an accelerated pace. Two landmark machine tools of 1865-1875, completely restored and made operative by William Henson, were placed on exhibition in the south-

west gallery of the Arts and Industries building. The first, a Brown and Sharpe No. 1 universal milling machine, is set up to mill the flutes of twist drills, one of the first operations undertaken by this type of machine. The other tool, a Jones & Lamson turret lathe, is equipped with authentically reconstructed turret tools to produce brass oil cups. Mr. Henson carried out the extensive research required for the restoration of these tools.

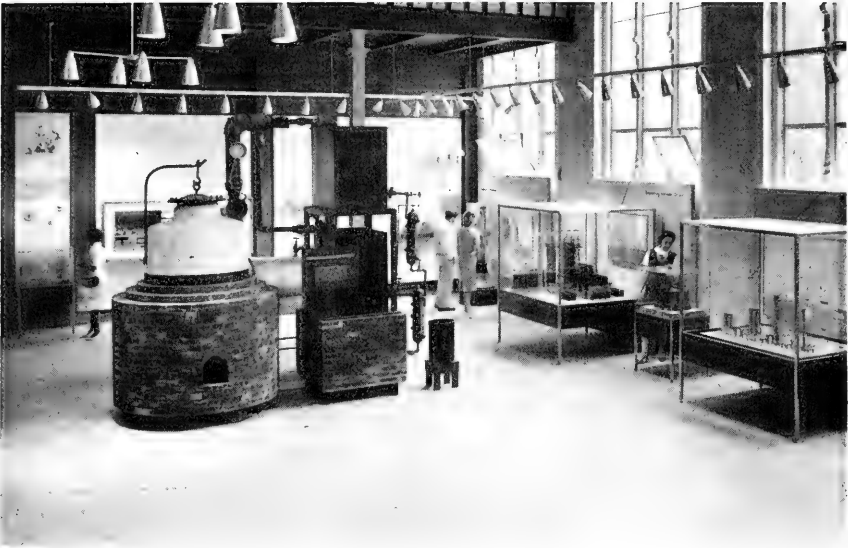
Design was completed on the section of the hall of civil engineering devoted to the history of tunneling, and preparation of study models for eight scale models illustrating the development of soft ground and rock tunneling methods was also completed under the technical direction of associate curator Robert M. Vogel. A temporary exhibition of fine prints, drawings and photographs of 18th- and 19th-century civil engineering works, planned by Mr. Vogel, was displayed from February 1 to April 30 in the rotunda of the Arts and Industries building.

Associate curator Edwin A. Battison continued to collect specimens and to direct the restoration of intricate watch-making machinery and other objects for exhibition in the hall of light machinery. For exhibits in this hall he perfected scripts which are being designed by Fred Craig. A particularly attractive display of decorative watches was installed in the hall of timekeeping by Mrs. Dorothy Briggs, who restored the watch and clock cases as well. Through the efforts of Mr. Battison, the Schlage antique lock collection was shown for a period of two months in the rotunda of the Arts and Industries building; and three interesting automaton figures—a draftsman, a penman, and an organist—from the Museum of Neuchâtel, Switzerland, brought to this country by Professor Edmond Droz, were publicly exhibited from May 1 to May 14.

Arts and Manufactures

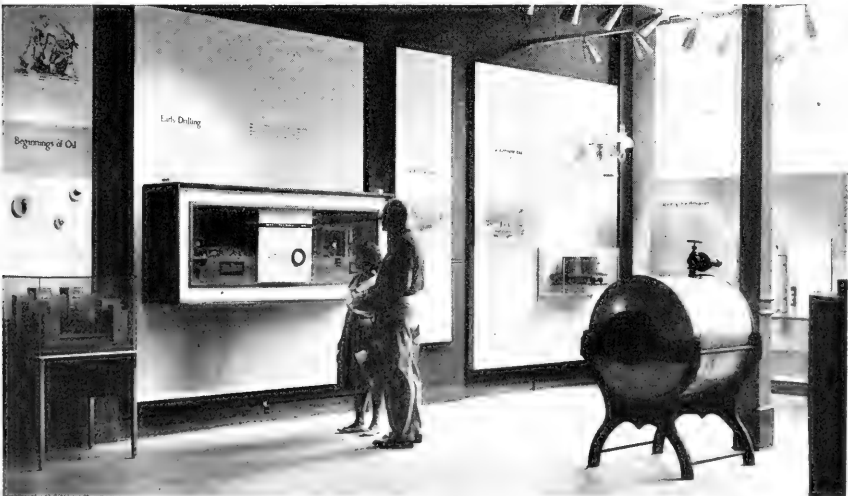
The modernized petroleum exhibit, which adjoins the iron and steel exhibit in the Arts and Industries building, was opened to the public in June. It provides a brief historical account of the growth of the petroleum industry since the discovery of the Drake well at Titusville, Pennsylvania, in 1859.

The exhibit is introduced by an illustration of ancient uses of natural asphalt, and animated models showing the two earliest methods of drilling used in the United States: the spring-pole and the Drake rig. A section of Drake's drive pipe displayed with the models provides a direct link with this historic enterprise. One of the few surviving bottles of Kier's petroleum recalls that use as a medicine preceded its application to lighting and lubrication. Some of the prob-



Modernized petroleum exhibit, with original experimental model of Burton-Humphreys still. This thermal-cracking process, introduced in 1913, made it possible for the industry to meet demand for gasoline resulting from mass production of automobiles.

Gasoline, a waste product of kerosene refining in the early days of the petroleum industry, was once turned into heating fuel by means of the Springfield gas generator, right.



lems of the kerosene era are presented, and an early use of the by-product gases is indicated in the form of a Gilbert and Barker gas-machine, in use until the 1940's in a school laboratory.

A small display of geophysical exploration equipment, made possible by the generosity of Seismos GmbH., Humble Oil Company, Continental Oil Company, Schlumberger, and Mr. Everett Lee DeGolyer, Jr., reviews the principal methods employed to expand the knowledge of America's oil resources. The first well to be drilled off-shore (Creole No. 1) is shown in the form of a model presented by the Pure Oil Company.

With the cooperation of Standard Oil Company (Indiana), Universal Oil Products Company, Esso Standard Oil Company, M. W. Kellogg Company, Mr. C. P. Dubbs, and the Massachusetts Institute of Technology (Prof. Harold Weber), an account of the major developments in oil refining is presented by means of full-scale equipment and models accompanied by explanatory flow charts.

The climax of "refining" prior to the automobile era is commemorated by a museum-designed model of a cheese-box still. The experimental still used by Drs. Burton and Humphries at Whiting, Indiana, which led to the first large-scale thermal cracking of crude, was graciously donated to the museum by Dr. Robert Wilson. The Dubbs clean-circulation process, representative of major developments in cheaper refining after World War I, is shown in a contemporary model. A model of a polymerization plant shows one of the earliest processes for increasing the high octane content of gasoline, one that was important in making fuel available for the allied air forces in 1939-1940. The historic fluid-catalytic cracking process, evolved in 1941 to provide the vast quantities of fuel needed by the U.S. Air Force, is also shown. Finally, a platinum-catalyst reforming process is demonstrated as a sample of the post-war effort to convert lower-grade to higher-grade fuel.

The importance of natural gas is brought out in a graphic explanation of the use of exhausted oil-measures for reserve storage. A modern highway, in model form, draws attention to the fact that asphalt is now a product of the petroleum refineries. The American Gas Association and the Asphalt Institute have collaborated with the museum in the preparation of these exhibits.

This hall was planned by head curator Philip W. Bishop in cooperation with exhibits designers Thaddeus McDowell, Riddick Vann, and Benjamin W. Lawless, assistant chief of exhibits.

Other exhibits will be added to those in this hall to expand the interpretation of the story of petroleum in the new museum. A large map of the United States portraying the growth of production and

reserves and the development of various means of transportation of gas and crude oil is under construction. This map is the gift of the American Petroleum Institute.

Renovation of the textile exhibits was completed with the opening of the third and last section of the textile hall gallery to the public on December 9, 1960. This section presents the origin and history of lace-making and rug-making, and displays popular types of American needlework. Among these, old American quilts are shown in an automatic case equipped with a selector dial, permitting the exhibition of ten quilts in a space previously required for two. The quilts are exposed to light for a brief viewing time, which can be set at a master control point.

Over 100 samplers dating from the 18th and 19th centuries are exhibited in specially designed pull-out frames so that the fragile fabrics are protected from fading when not being viewed. Also displayed are a fine collection of laces, from 16th-century drawn-work to machine-made laces of the 19th century, and examples of both hand and machine netting techniques.

Two temporary exhibits are of particular interest. One shows 27 lace and needlework handkerchiefs of the 19th century selected from the permanent collections. The other, on loan from Mr. Cornelius Roosevelt, includes an excellent embroidered wall hanging made by his mother, Mrs. Theodore Roosevelt, Jr., an accomplished needlewoman. This colorful embroidery depicts one scene from the fairy tale of the Golden Cockerel. With it is shown an incomplete companion piece on the embroidery frame, made by her son, which Mrs. Roosevelt used.

Preparation and installation of the lace and needlework was carried out under the direction of associate curator Grace L. Rogers by staff member Doris Bowman, assisted by summer interne Barbara Shafritz. The exhibits were designed by Robert Widder.

These new textile exhibits, with additional permanent exhibits and temporary displays, will be installed in the Museum of History and Technology.

Pre-installation display preparation for the hall of graphic arts has been completed. The John I. Wells hand press was refurbished and the bed support, rounce (or winch), and attendant leather pulley system were overhauled and repaired. Associate curator Eugene N. Ostroff reviewed and began rewriting the scripts for the exhibits of the hall of photography, which will include both working models and historic specimens. Because the exhibition area for photography in the Arts and Industries building was being revised, no special photographic exhibits were held during the year.

Six special exhibits in graphic arts were shown :

20th-century color wood-cuts	20 prints from the collection	July 1–September 11, 1960
Prints by Alfred Sessler	20 prints in various media	September 12–October 31, 1960
Prints by Arthur Thrall	20 prints in various media	November 1, 1960–January 3, 1961
Lithographs and drawings by Prentiss Taylor	18 prints	January 4–February 28, 1961
Prints by Sheila Isham	16 prints in various media	March 1–May 1, 1961
Prints of the 16th century	23 prints in various media, from the collection	May 2–June 30, 1961

Production of exhibits for the hall of ceramics was begun in the laboratory during January. The exhibit contents were specified by associate curator Paul V. Gardner and the designs prepared by Mrs. Dorothy Guthrie.

Theodore A. Randall, head of the department of design, New York State College of Ceramics, Alfred, N. Y., continued as a consultant for the division of ceramics. A competition for the design of a fountain, and for a decorative wall grill for the hall of ceramics, is being held among the students at the College. Contracts were awarded for two architectural features for the hall of glass, a stained glass entrance panel and an intaglio design in plate glass representing a glass blower.

Important recent accessions by the division of ceramics and glass have been featured in exhibits in the Natural History building.

An experimental fuel-cell tractor developed by the Allis-Chalmers Manufacturing Company was placed on display in the hall of farm machinery in October. Throughout the year a rotating exhibition of color photographs lent by the Soil Conservation Service of the U.S. Department of Agriculture was maintained at the east end of this hall. The preliminary script for the hall of wood products completed by consultant Carl Rischell, was studied by associate curator E. C. Kendall and exhibits designer Riddick Vann as a basis for developing a layout of exhibits.

Provisional exhibit scripts for the halls of nuclear energy, iron and steel, and mining were prepared during the year by the division of manufactures and heavy industries, and head curator Philip W. Bishop and associate curator Charles O. Houston, Jr., carried forward negotiations intensively throughout the year with the industrial firms and trade associations whose aid is essential to the development of the exhibits.

Civil History

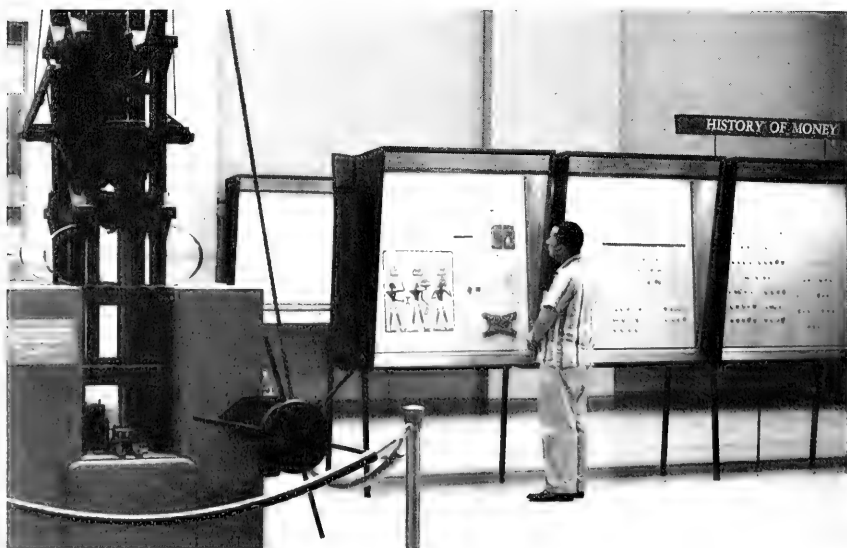
A completely renovated hall of monetary history and medallic art was formally opened in the Arts and Industries building on March 18, 1961, in the presence of the Secretary of the Treasury, the Under Secretary of the Treasury, Senator Clinton P. Anderson, Representative Frank T. Bow, Regents of the Smithsonian Institution, members of the diplomatic corps, donors, collectors, and representatives of numismatic organizations from all sections of the country. The central series of 19 specially designed cases traces the major aspects of the development of money economy from primitive barter to the establishment of our modern monetary systems. The series relates the evolution of money, an integral part of the cultural development of human society, to a sequence of significant historical events. Thus the coins, tokens, and paper currencies are made more meaningful to nonspecialists than would be their display in the conventional classifications of the numismatist. Special emphasis is given to the development of the various forms of currencies in North America and their role in the economic and political growth of the United States. Table cases of topical displays on "The Origin of Coin Names," "The Reformation," "Confederate Currencies," and "State Bank Notes" complete the monetary history section of this hall. A reconstruction of the coin-stamper designed by the renowned Italian artist and inventor, Leonardo da Vinci (1452-1519), which marked the introduction of mechanization in coining techniques, occupies a prominent position in the hall.

A significant section of this hall is devoted to the United States Mint collection, the oldest collection of coins owned by the government. The hall also features the world's largest collection of gold coins on public display, a type collection of 1,850 gold coins of Europe and the Americas given to the Smithsonian Institution by the late Paul A. Straub. Almost 4,000 silver coins complement this series.

The small size and considerable value of the coins, as well as the danger of damage to paper money from fading, present special problems in the museum display of these materials. The 19 upright cases containing the history of money displays have internal lighting of the cold cathode variety. The light boxes are equipped with specially designed Lucite (methacrylate) lenses which insure even light distribution within the cases and at the same time filter some of the more damaging radiations. The coins are placed whenever possible in tightly closed boxes made of clear cellulose triacetate K IV which are in turn attached to the display panel with small Velcro discs or strips, facilitating the removal of coins for study purposes and replacement of coins on display.



Modernized display of the national numismatic collection in the Arts and Industries building. These and other exhibits now stored will comprise the hall of monetary history, in the new Museum of History and Technology, and will trace the history of money and its uses from earliest times. Coin-stamping machine (below, left), built from 15th-century designs by Leonardo da Vinci, marks the beginning of modern coinage techniques.



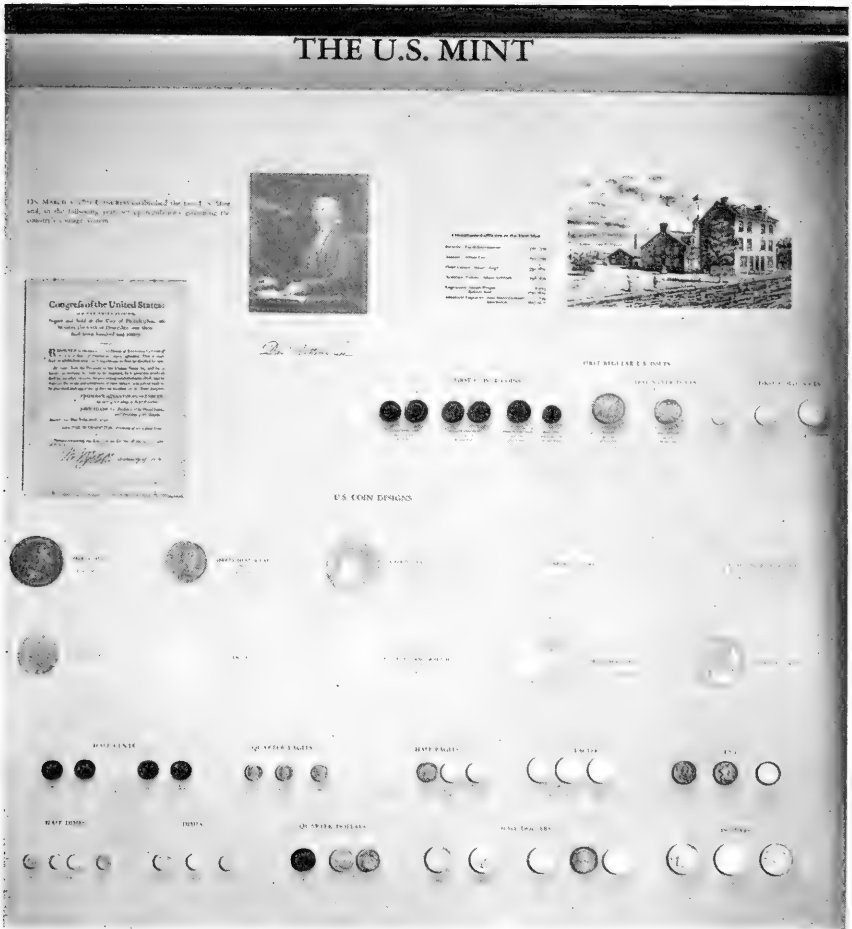


Displays of money from other countries and other times add meaning and perspective to the exhibits of U.S. currency.

All paper currencies are protected by Plexiglas G, $\frac{1}{16}$ inch unshrunk, which has ultra-violet absorbency of 100 percent at 330+ millimicrons. The windows of the hall itself are covered with filters having a light transmission of only 8 percent.

The completion of this hall would not have been possible without the assistance of many public and private institutions and organizations as well as most generous gifts from numerous private citizens of the United States. The exhibits were planned and their preparation supervised by Mrs. Elvira Clain-Stefanelli, associate curator of numismatics. They were designed by Harry Hart.

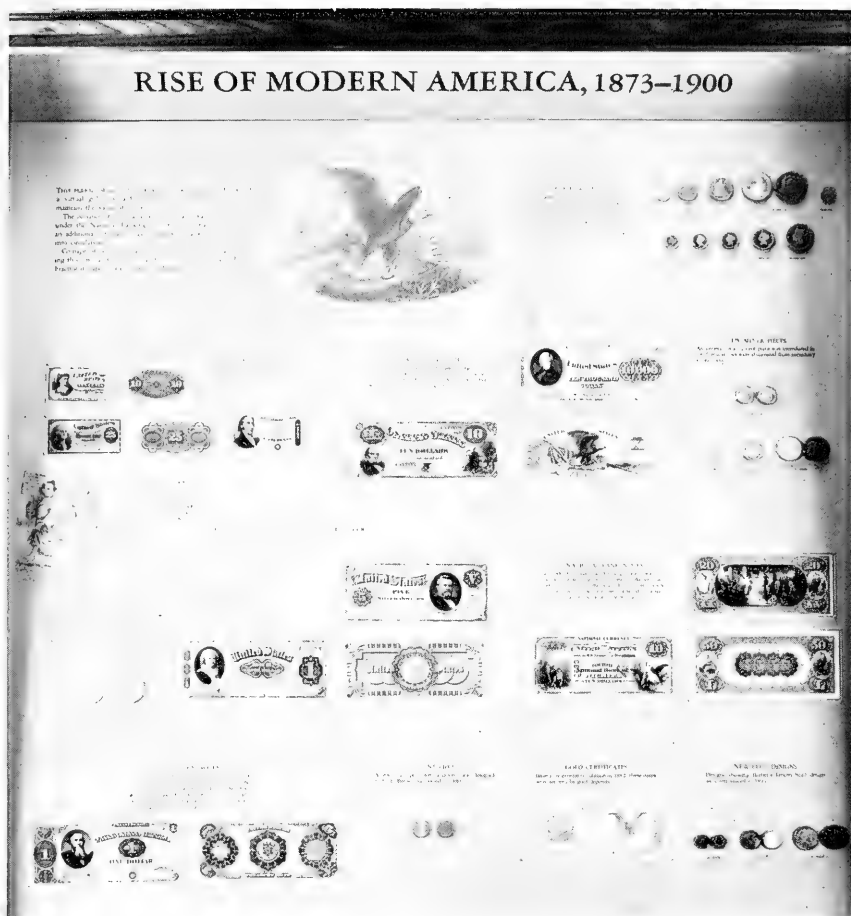
A special exhibit featuring 250 masterpieces of ancient Greek coinage, prepared by Mrs. Clain-Stefanelli from material loaned by



The U.S. Mint was founded in 1791, and the national numismatic collection was started soon after, at Philadelphia, site of the first mint.

a private collector, was displayed from December 1960 to March 11, 1961, in the rotunda of the Arts and Industries building and from March 18 to May 26, 1961, in the monetary history hall. It included outstanding examples marking the evolution of Greek coinage from the 7th to the 2d centuries B.C. Beginning June 21, 1961, two cases featuring "Paper Currencies of the World" were put on display. The division of numismatics also contributed special exhibits to the National Numismatic Convention in Boston, August 24-27, 1960.

Under the supervision of curator Wilcomb E. Washburn, aided by designer Robert Widder, the greater part of the pre-installation display preparation for the hall of American politics has been completed by the exhibits laboratory. Several temporary topical exhibits were



The national collection today has examples of practically every type of money ever issued by the U.S. Government.

arranged by the division of political history. An inaugural exhibit was displayed from December 1960 to March 1961, and during the same period state gifts presented to President Eisenhower were shown. Early voting machines and presidential commemorative material were exhibited during February 1961.

Associate curator Margaret Brown Klapthor completed the exhibits scripts for the new First Ladies hall, and all labels for these exhibits were edited. Restoration of two Washington period rooms progressed, and the sketch model was approved for a diorama portraying Dolley Madison removing furnishings from the White House during the War of 1812. Studies of possible modifications in the treatment of mannequins for the First Ladies hall were pursued in the laboratory. During the year the White House china collection

was expanded so that representative pieces from almost every administration are now on exhibition.

Production of exhibits for the hall of costumes was continued and over 80 per cent of the units for this hall were completed by the end of June. Assistant curator Anne W. Murray prepared detailed specifications for 21 mannequins to be used in the display of period costumes.

During the year the overall layout of exhibits and design of cases for the hall of philately and postal history were completed, and at year's end the graphic design of the series of exhibits to interpret the history of the post was nearing completion. The scripts for these exhibits were written by George T. Turner, associate curator in charge, and assistant curator Carl H. Scheele. A selected group of historical items from The Postal History Museum of the Post Office Department, which was transferred to the Smithsonian Institution April 1, was placed on exhibition in the existing philately hall. To coincide with the issuance of a new United States stamp bearing a likeness of the 50-star American flag, a display of stamps of foreign nations which feature the United States flag was prepared for July 4, 1960.

Exhibits for the hall of everyday life in the American past, planned by curator C. Malcolm Watkins and designed by exhibits chief John E. Anglim, advanced to the production stage in March. By the end of June more than 20 percent of the wall case exhibits for this large hall were produced. Meanwhile, George H. Watson continued his painstaking restoration of period rooms to be shown in this hall and has thus far completed pre-installation work on eight of these projects. On May 26, 1961, a rare American wooden statue of William Pitt, carved in 1801 by Joseph Wilson for the eccentric "Lord" Timothy Dexter of Newburyport, Mass., was placed on exhibition in the cultural history hall. This statue, the gift of Mrs. Arthur M. Greenwood, was restored with remarkable skill by exhibits technician Gordon Dentry.

Associate curator John D. Shortridge prepared exhibit scripts for the section of keyboard instruments which will occupy the central area of the hall of musical instruments in the Museum of History and Technology. Architects for the building completed their design of the architectural features of this hall, and Allyn Cox's sketches for the wall decorations were approved by the Fine Arts Commission.

Associate curator Peter C. Welsh and consultant Anthony N. B. Garvan completed the scripts for exhibits in the second of the halls to be devoted to interpretation of the growth of the United States. This hall covers the period 1640 to 1740 in American history. Robert Widder made progress on the design of exhibits for the hall that interprets the period 1750 to 1850. Mr. George Watson completed

restoration work on one period installation for this series of exhibits and made marked progress in the advance preparation of two others.

From January 15 to February 5 the first public showing of the recently acquired Harry T. Peters' "America on Stone" lithography collection was held in the foyer of the Natural History building. This exhibition of more than one hundred selected prints, entitled "The Victorian American," subsequently was circulated by the Smithsonian Traveling Exhibition Service.

Armed Forces History

The development of the hall of ordnance and the series of halls interpreting the history of our Armed Forces was a major activity of all curators, who participated in frequent consultations with the exhibit designers and model makers designing and producing exhibits for these halls.

Head curator Mendel L. Peterson, curator Edgar M. Howell, and associate curator Philip K. Lundeborg supplied information and specimens to designer Fred Craig which enabled him to complete the detailed design of units for the first third of the extensive series of displays on the history of the Armed Forces. The program of building and restoring the warship models that will illustrate comprehensively the evolution of the United States man-of-war was continued, and specifications were prepared for the construction of scale models of representative military and naval aircraft.

Following specifications prepared by associate curator Craddock R. Goins and his colleagues, designer John Brown completed the designs for a considerable number of the exhibits for the hall of ordnance. Robert Klinger, Donald Holst, Anthony Fiore, and Paul Richards of the model shop produced for this hall an exceptionally fine series of scale models of field, siege, and ships' guns of the 15th through the 19th centuries. Production of panel exhibits was begun in June.

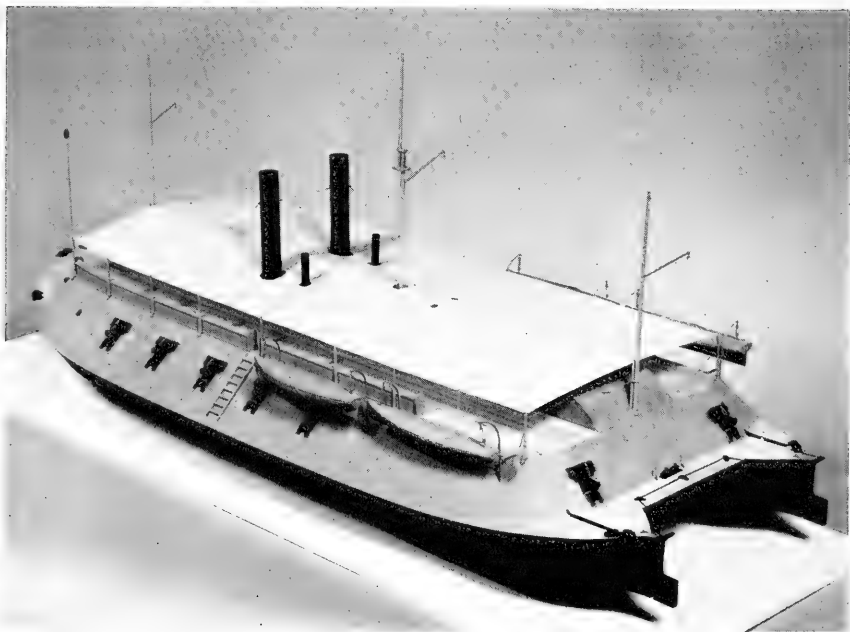
Mr. Howell, in consultation with the architects of the building, developed detailed plans for the feature exhibit of the Star Spangled Banner, in the rotunda of the new museum.

A complete display of United States military decorations and medals, and a Civil War 12-pounder gun on its carriage were added to the existing displays in the hall of military history. A number of warship models, relating particularly to the Civil War, were added to the exhibits in the hall of naval history, while other models were progressively retired for major restoration, which normally involves complete repainting and re-rigging, and frequently requires extensive research in the interest of detailed historical accuracy.

During September a special exhibition of memorabilia of Gen. John J. Pershing was placed on view in the rotunda of the Arts and Industries building in conjunction with the national celebration of General

Pershing's birth. Roman antiquities recovered from the Mediterranean and the Sea of Galilee by the Link expedition during the previous summer were displayed from April 1 to April 26.

The division of military history prepared a special exhibition of military epaulets for the annual meeting of the Company of Military Collectors and Historians, May 19-21, at Gettysburg, Pa. Naval, military, and ordnance materials recovered from a 17th-century shipwreck site were displayed by the division of naval history at the same meeting. This division also cooperated with the Department of the Navy in providing specimens for exhibition at the Museum of Science and Industry, Chicago, Ill., and at the Hall of State, Dallas Historical Society, Dallas, Tex.



Union Gunboat *Benton*. Converted from a Mississippi River snag boat in 1861 by James B. Eads of St. Louis, Missouri, this 202-foot ironclad served as flagship of the Western Flotilla which spearheaded early Federal victories in the Mississippi Valley. Wearing the command pennant of Flag Officer Andrew Hull Foote, the *Benton* mounted a battery of two IX-inch Dahlgren guns, four 42-pounders, two 50-pounders, and eight 32-pounders, constituting the heaviest armament in the Union flotilla. As indicated by this model (scale: $\frac{1}{4}$ inch = 1 foot) recently received by the division of naval history, the *Benton* consisted essentially of an armored casemate, mounted on two narrow hulls, between which was located a paddle wheel.

Accessions

During the fiscal year 1961

During the past year accessions added 971,150 specimens to the national collections. These materials were distributed among the eight departments as follows: anthropology, 19,764; zoology, 369,701; botany, 103,160; geology, 229,676; science and technology, 4,231; arts and manufactures, 5,521; civil history, 237,323; and armed forces history, 1,774. This total includes 228,911 stamps, 223,501 insects, and 95,102 marine invertebrates. The accessions for the most part were received as gifts from individuals or as transfers from government departments and agencies. A full list of donors will be found on page 116.

Anthropology

The division of archeology received by transfer from the River Basin Surveys 5,153 artifacts collected at numerous prehistoric sites in South Dakota and Wyoming. Mrs. Virginia M. Pollak added to her earlier generous donations a wooden ibis from the Ptolemaic-Roman period of Egypt.

Dr. David C. Graham of Englewood, Colo., honorary research associate in biology, gave to the division of ethnology two scrolls written in the Chinese and Manchurian languages and representing awards in the years 1753 and 1868 for loyal services to the Chinese government. From the estate of John T. Owen was received a late 19th century Chinese four-panel, lacquer screen. The decoration thereon, showing four birds in a natural setting, has been executed by inlaying mother-of-pearl, rose quartz, white and stained ivory, and semiprecious stones. Dr. F. F. Fellows, of West Linn, Oreg., presented 54 ethnological specimens of Eskimo manufacture which he had collected at Icy Cape, Alaska, in 1908. Dr. Leo Stoor, of Cleveland, Ohio, presented 104 smoking pipes, mainly from the Near East, India, China, and Japan. In exchange from John H. Brandt, of New York City, came 84 Micronesian ethnological objects. Among the rare specimens in this collection is a type of necklace from Yap no longer obtainable from the natives. From the Ossining (N.Y.) Public Schools came two Pacific Islands fishhooks, one of which, an Hawaiian circular turtle-shell hook, was collected about 1840 and is now rare.

SPECIMENS IN THE NATIONAL COLLECTIONS MAY 31, 1961

DEPARTMENT OF ANTHROPOLOGY		916, 962
Archeology	696, 847	
Ethnology	182, 480	
Physical Anthropology.	37, 635	
DEPARTMENT OF ZOOLOGY.		28, 594, 747
Mammals	289, 847	
Birds	500, 313	
Reptiles and Amphibians.	151, 213	
Fishes	1, 710, 679	
Insects.	14, 355, 099	
Marine Invertebrates	1, 830, 007	
Mollusks	9, 708, 955	
Helminths	48, 634	
DEPARTMENT OF BOTANY		2, 973, 742
Phanerogams.	1, 890, 814	
Ferns	229, 375	
Grasses	378, 761	
Cryptogams	452, 947	
Woods	21, 845	
DEPARTMENT OF GEOLOGY		12, 914, 091
Mineralogy and Petrology	398, 446	
Invertebrate Paleontology and Paleobotany	12, 470, 611	
Vetebrate Paleontology	45, 034	
DEPARTMENT OF SCIENCE AND TECHNOLOGY		68, 521
Physical Sciences	3, 245	
Mechanical and Civil Engineering	9, 005	
Electricity	4, 230	
Transportation	24, 895	
Medical Sciences	27, 146	
DEPARTMENT OF ARTS AND MANUFACTURES.		139, 508
Textiles	33, 898	
Ceramics and Glass	14, 847	
Graphic Arts	46, 803	
Manufactures and Heavy Industries	33, 848	
Agriculture and Forest Products	10, 112	
DEPARTMENT OF CIVIL HISTORY.		9, 311, 591
Political History	42, 962	
Cultural History	19, 555	
Philately and Postal History	9, 128, 860	
Numismatics	120, 214	
DEPARTMENT OF ARMED FORCES HISTORY.		44, 643
Military History	37, 673	
Naval History	6, 970	
TOTAL MUSEUM COLLECTIONS		54, 963, 805

The collection of the American Negro skeletal remains in the division of physical anthropology was increased by 14 skulls and a few miscellaneous bones recovered by the District of Columbia Coroner, Dr. A. Magruder MacDonald, when an abandoned cemetery near the Calvert Street bridge in Washington was exposed in the course of building operations. The Zoller Laboratory of Dental Anthropology of the University of Chicago presented 11 standard models for classifying crown characters of human deciduous teeth. The models, accompanied by an explanatory manual, were prepared by Dr. Kazuro Hanihara, of Sapporo Medical College, Japan, and are based on a series of 600 subjects representing various racial groups.

Zoology

Forty-two accessions added a total of 4,076 specimens to the collection in the division of mammals. Nearly 1,000 specimens from Formosa and 400 from North Borneo were collected by field parties of U.S. Naval Medical Research Unit No. 2 and forwarded by Dr. Robert E. Kuntz. Two important collections were received from South Vietnam, an area heretofore very poorly represented: Bernard R. Feinstein, of the Museum staff, working in cooperation with the Army Medical Research and Development Command and the Bernice P. Bishop Museum, sent 600 mammals; and Dr. Robert Traub forwarded 121 additional specimens collected by the U.S. Army Medical Research Unit. From Panama, Captain Vernon J. Tipton sent 273 specimens collected by the Army Preventive Medicine Division. Numerous smaller collections were received from localities within the United States; E. V. Komarek presented 83 mammals, mostly carnivores, from the southeastern states, as well as an additional lot of 53 small mammals from the same area; Russell E. Mumford and Ralph D. Kirkpatrick each continued to send mammals from Indiana; and the Virginia State Department of Health, through J. T. Banks and T. M. Mullmann, presented 44 mammals collected in the course of epidemiological surveys. Other contributions to the much desired improvement of our mammal collections from the Middle Atlantic States were received from Lyle Conrad, Bernard R. Feinstein, E. H. Geil, C. O. Handley, Sr., C. O. Handley, Jr., Robert D. Jackson, Kenneth I. Lange, J. C. Lingeback, and Daniel I. Rhymer.

Some of the most important accessions in the division of birds came from the same sources that were responsible for several of the mammal collections referred to above. A series of 512 bird skins from the lowlands of North Borneo was received from the U.S. Naval Medical Research Unit No. 2. A total of 565 bird skins, 6 alcoholic specimens, and 20 skeletons from South Vietnam resulted from the activities

sponsored by the Bernice P. Bishop Museum and the Army Medical Research and Development Command. No less than 1,411 skins and 19 skeletons from North America were received by transfer from the U.S. Fish and Wildlife Service. The U.S. Naval Medical Research Unit No. 2 was also credited with 1,081 skins and 6 alcoholic specimens from Formosa.

The division of reptiles and amphibians received several noteworthy collections. Leslie Hubricht donated 19 salamanders from Alabama, including the holotype of a new genus and species. A fine series of Virginia amphibians, mostly salamanders, collected by the late Walter



Green moray eel *Gymnothorax funebris*, caught near Cat Cay in the Bahamas. Six feet two inches long and weighing 42 pounds, it was given to the Museum by Al Pflueger.

B. Newman, was received as a gift from his mother, Mrs. Helen B. Newman; this collection contains type material of two species. By transfer from the U.S. Army Medical Research Unit, through Lt. Col. H. J. Baker, came 29 snakes, mostly from Selangor, an area from which we have had few specimens. Material from the U.S. Naval Medical Research Unit No. 2, through Dr. Robert E. Kuntz, amounted to 116 snakes from Formosa. A series of 28 Venezuelan reptiles and amphibians collected for the Museum by C. O. Handley, Jr., and D. I. Rhymer contains some frogs that are valuable for comparison with Colombian material now being studied. Similarly, 39 reptiles and amphibians collected in South Vietnam by Bernard R. Feinstein are a valuable adjunct to our collections from Thailand.

The largest collection received in the division of fishes consists of 2,702 specimens from the Fourth Smithsonian-Bredin Caribbean Expedition. Another large collection, totalling 1,114 fishes, was received from the U.S. Fish and Wildlife Service, through Harvey

R. Bullis, Jr., and Daniel M. Cohen. These collections are important as they contain specimens of value to the current research of several investigators. Dr. Eugenie Clark, of the Cape Haze Marine Laboratory, Placida, Fla., and Dr. H. Steinitz, of the Hebrew University of Jerusalem, donated 778 marine fishes that were collected in the Red Sea by Dr. Clark; these specimens are very valuable because the Red Sea area is the type locality of numerous kinds of fishes, some of which are endemic. Dr. Hurst Shoemaker, of the American University of Beirut, donated 361 fishes from Lebanon. Among the valuable collections sent in for identification were 453 Formosan fishes received from Dr. Robert E. Kuntz, U.S. Naval Medical Research Unit No. 2, and 728 specimens from Africa and South America received from Dr. Herbert R. Axelrod, of Tropical Fish Hobbyist Publications, Jersey City.

The John C. Lutz collection of Hemiptera, consisting of 87,371 specimens, was the most outstanding accession in the division of insects; this collection, which contains 668 types of various kinds including holotypes of 15 species, is particularly rich in Neotropical species, many of which were not previously represented in the national collections. Another very important insect accession is the N. Baranov collection of Palaearctic tachnid flies, consisting of 4,611 specimens representing 305 genera, 68 of which are new to our collections, and 812 species, of which 499 were not previously available for study here; no less than 129 species are represented by type material, including 43 holotypes and 51 paratypes. Individuals who made important contributions to the national insect collection are: Dr. Charles P. Alexander, Amherst, Mass., who donated 3,306 miscellaneous specimens from North and South America; A. J. Ford, of Honolulu, who presented 2,915 Hawaiian insects; Dr. J. Maldonado-Capriles, who contributed 2,938 miscellaneous specimens from Pakistan; O. L. Cartwright, U.S. National Museum, who donated 10,000 scarab beetles; William E. Sieker, who presented 2,127 Lepidoptera from Wisconsin; Dr. Douglas Gould, who gave approximately 3,000 mites; N. L. H. Krauss, who continued his enthusiastic support of the national collections by contributing 7,848 miscellaneous insects from various parts of the world; and Dr. Karl V. Krombein, who presented 1,127 Hymenoptera which are of special value because they are the basis of biological studies being conducted by the donor.

Contributing materially to another record-breaking year for accessions in the division of marine invertebrates were 54,480 amphipod crustaceans, including 15 type specimens, received from the Scripps Institution of Oceanography, University of California. From the Universitetets Zoologiske Museum, Copenhagen, through Dr. H. Volsøe, we received 9 deep-sea invertebrates from the world-renowned

Danish Deepsea Expedition of the *Galathea*, including paratypes of unusual holothurians, starfishes, polychaete worms, and sea anemones. The Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands, through Dr. L. B. Holthuis, donated 402 crustaceans, including two scyllarid lobsters and an authoritatively identified set of European isopods. A collection of 5,528 miscellaneous Antarctic invertebrates from Operation Deep Freeze IV was received from Stanford University, through Dr. Donald E. Wohlshlag. Another large series of 5,256 miscellaneous marine invertebrates was collected for the Museum in Bermuda by Mrs. LaNelle W. Peterson.

The most important accession in the division of mollusks was 12,200 specimens collected for the Museum at Jaluit Atoll, in the southern Marshall Islands, by Dr. Harald A. Rehder. The Fourth Smithsonian-Bredin Caribbean Expedition added 6,000 mollusks from Yucatán. Dr. Wendell P. Woodring collected 485 specimens of marine mollusks on the Atlantic coast of Panama. From the Institute of Oceanology of the Academy of Sciences of the USSR, through Dr. Z. A. Filatova, came 607 specimens of fresh-water mollusks from the USSR.

Botany

The most important accession of the year was the *Cladonia* collection of the late Alexander W. Evans, consisting of 39,204 specimens, received in exchange from the Osborn Botanical Laboratory of Yale University. Others, also in exchange, were 2,895 unusually fine specimens of *Rhododendron* and *Primula* collected in Asia by George Forest, received from the Royal Botanic Garden, Edinburgh, Scotland; 7,786 specimens of Asia and South America, mostly significant historical collections, from the Muséum National d'Histoire Naturelle, Paris; 1,287 plants of Indonesia from the Herbarium Bogoriense, Bogor, Indonesia; and 527 photographs of plants in the Philip Miller Herbarium from the Bailey Hortorium, Ithaca, N. Y.

From the American Museum of Natural History were received 15,780 specimens collected by L. J. Brass on the Sixth Archbold Expedition to New Guinea. The University of California, Berkeley, sent 497 specimens of South American plants collected by W. Eyerdam on the Sixth Botanical Garden Expedition to the Andes, in return for identifications.

Dr. Mason E. Hale and Dr. Thomas R. Soderstrom collected 3,841 specimens, mostly lichens, in Mexico for the Museum, and Dr. John E. Ebinger collected 5,086 specimens in Panama, primarily on Barro Colorado Island. From the U.S. Geological Survey, Department of the Interior, were transferred 2,650 Alaskan plants collected by Lloyd Spetzman.

The division of woods received in exchange from the Yale School of Forestry 474 wood samples collected by Dr. John J. Wurdack and L. S. Adderley in Venezuela; 966 slides of Malayan woods from the Forest Research Institute, Kepong, Selangor, Malaya, through P. K. Balan Menon; 314 wood samples with voucher herbarium specimens collected in Sarawak, from the University of Oxford, England; and 1,784 microscope slides of pollen from the Rancho Santa Ana Botanic Garden. Dr. Stern presented 609 samples of wood he collected in Panama.

Geology

As gifts, 21,577 specimens in 248 accessions were received in the division of mineralogy and petrology. Some of the important items are: a very fine cubic crystal of diamond weighing 82.5 carats, from Sierra Leone, and a three-quarter carat diamond crystal in matrix, from the Bulfontein Mine, South Africa, both gifts of Dorus Van Itallie; a fine large group of wulfenite crystals from the Glove Mine, near Amado, Ariz., and a gem-quality twin crystal of chrysoberyl, from Minas Gerais, Brazil, both gifts of Bernard T. Rocca, Sr.; and a large botryoidal mass of rhodochrosite from Argentina, from E. C. Soper.

New mineral species received as gifts were: kennedyite, Southern Rhodesia, from the University of Leeds, England; lizardite, England, from the Department of Scientific and Industrial Research, Watford, England; rhodesite and mountainite, South Africa, from Rhodes University, Grahamstown, Republic of South Africa; blixite, Sweden, from the Naturhistoriska Riksmuseet, Stockholm, Sweden; and yedlinite, Maine, from Neal Yedlin, New Haven, Conn.

Outstanding among specimens received in exchange are: becquerelite and fourmarierite from the Republic of the Congo (Leopoldville); andersonite, Utah; raspite, Australia; phosphophyllite and wolframite, Bolivia; cronstedtite, Hungary; and benitoite, California. Newly described species received in exchange were: schoderite and metaschoderite, Nevada; masuyite and lueskite, Republic of the Congo (Leopoldville); yavapaite, Arizona; and wolsendorffite, Germany.

About 1,625 specimens were added to the Roebbling collection by purchase from the Roebbling fund or by exchange. Among these the following are outstanding: a collection of 40 specimens of wulfenite, each of exceptional quality, from various localities in Arizona; several very fine adularia crystals from Switzerland; bournonite, Japan; a collection of Finnish minerals comprising 895 specimens, principally from the Erijarvi pegmatite dike; dolomite, Austria; melonite, Colorado; caledonite, Arizona; a well-formed cube of uraninite four inches on an edge, from Morogoro, Tanganyika; and a very fine large gado-

linite crystal from the Iveland district, southern Norway. Added to the Canfield collection by purchase from the Canfield fund were 17 specimens in 4 accessions. Among these are several of outstanding quality, including wulfenite, Glove Mine, near Amado, Ariz.; a 90 carat peridot crystal from Zebirget, Egypt; a very large sphene crystal, from Baja California; bournonite, England; and apatite, Italy.

An unusually large number of fine gems were added to the collection, and the most significant of these are: a 263.5-carat aquamarine, USSR, from Mrs. Paul A. Neal; a 28.25-carat andalusite, Brazil, from Fred C. Kennedy; a 187.2-carat colorless topaz, and two citrines weighing 90.5 and 78.8 carats, respectively, all from Brazil, from Albert R. Cutter; a 5.35-carat green apatite, from Mr. and Mrs. Paul Durand; six Montana sapphires and a 5.92-carat transparent red opal, from Mexico, from James and Harry Kazanjian; and a carved piece of Burma amber, from Martin L. Ehrmann. Gems acquired for the Isaac Lea collection by purchase from the Chamberlain fund include a pink scapolite from Burma weighing 12.33 carats; a blue topaz from Texas weighing 146.35 carats; a peridot from Arizona weighing 22.9 carats; and a 9.53-carat yellow tourmaline from Brazil.

During the past year the meteorite collection continued its growth. Seven meteorites new to the collection were obtained: Abee, Canada; Bruderheim, Canada; Kandahar, Afghanistan; Treysa, Germany; Utzenstorf, Switzerland; Aroos, Russia; and Moab, United States. Exchanges for meteorites and tektites were carried out with the following institutions; University of Bern, University of Adelaide, University of California, Max Planck Institut für Chemie; Universitets Mineralogiske Museum (Copenhagen), University of Kentucky, University of Alberta, National Museum of Australia, Gorny Institute (Leningrad), Naturhistorisches Museum (Bern), Academy of Sciences of the USSR, and the Geological Survey of Canada.

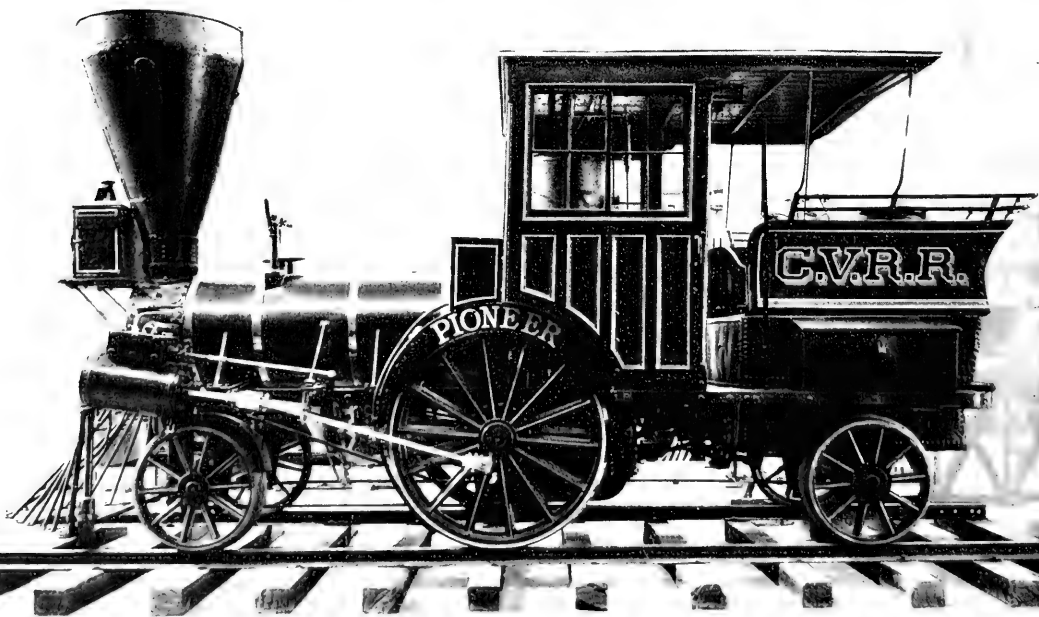
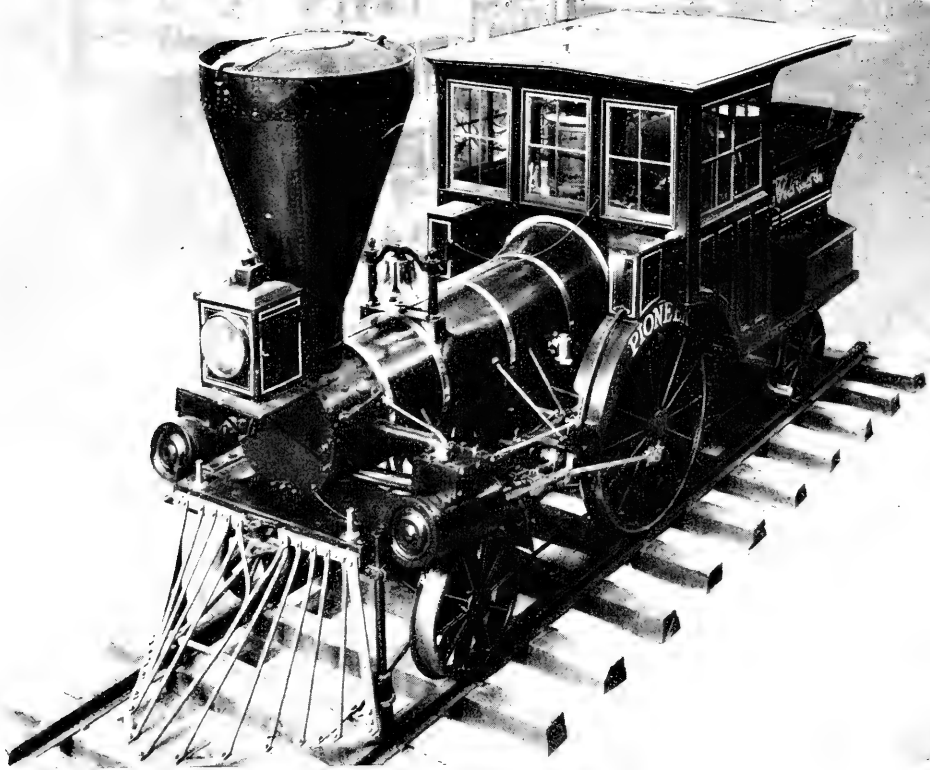
Some important fossil collections were acquired by the division of invertebrate paleontology and paleobotany. The American Museum of Natural History donated the famous Greene collection consisting mostly of Devonian corals from the Falls of the Ohio region in Indiana and Kentucky. A bequest was received from the estate of Mrs. Ruby F. Renfro of approximately 50,000 specimens of Pennsylvanian, Permian, and Cretaceous fossils of north central Texas and a small collection from Europe. Other gifts include 1,000 Devonian invertebrate fossils from the upper Dundee limestone and the Silica shale, Michigan and Ohio, presented by Dr. Erle G. Kauffman; 36 fossil crabs from the Miocene of Virginia, from George Webb; and 167 smaller Foraminifera from the Mississippian of southern Indiana, Kentucky, Tennessee, and Ohio, presented by Dr. J. E. Conkin.



This topaz, shown full size, is from Minas Gerais, Brazil, and weighs 3,273 carats. It is the largest cut blue topaz in the world.

Funds from the income of the Walcott bequest made possible field work which yielded 600 echinoids from the Paleocene, collected in Georgia by Dr. Porter Kier in collaboration with Dr. Druid Wilson, of the U.S. Geological Survey; 2,500 Upper Cretaceous, Paleocene, and Eocene invertebrate fossils collected in Maryland by Dr. Erle G. Kauffman with Dr. Norman F. Sohl and Dr. Harlan R. Bergquist, of the U.S. Geological Survey; and 1,000 Pennsylvanian fossils collected in Texas by Drs. G. Arthur Cooper and Richard E. Grant.

The outstanding accession received in the division of vertebrate paleontology was a series of about 202 specimens representing fish, amphibians, and reptiles from various Permian formations in Texas and Kansas, collected by Dr. Nicholas Hotton III and John E. Gassaway through funds provided by the Walcott bequest. Particular mention is made of a nearly complete and articulated skeleton of the small predaceous amphibian *Acroplous vorax* taken from the Permian Speiser formation of Kansas, and a large part of a skeleton of the primitive cotylosaurian reptile *Labidosaurus* sp., from the Permian Arroyo formation of Texas. A rare and remarkably well-preserved ray fish, together with a gar pike and a partial skeleton of a bird



which may prove to be a fossil booby, from the Eocene Green River formation of southwestern Wyoming, were purchased through the Walcott bequest. The jaws, part of the skull, and several vertebrae of a very large baleen whale were collected from the Miocene Yorktown formation near Hampton, Va., by Dr. Nicholas Hotton III, Kurt F. Hauschildt, and Dr. Frank C. Whitmore, Jr. Dr. Hotton, assisted by William E. Moran, a former Smithsonian employee, also secured a partial skeleton, including the greater part of a skull, of a rare embolomorous amphibian from the Mauch Chunk formation of Mississippian age, near Greer, W. Va.

Science and Technology

The division of physical sciences acquired two astrolabes of unusual interest. Through the generosity of Lessing J. Rosenwald a very fine medieval English instrument was received, having as a notable feature zoomorphic star pointers. Although undated and unsigned, it is dated by the calendar scale about 1325. A second astrolabe received this year is an Hispano-Moorish instrument by Muhammad ibn-Sahli. In its decoration it exhibits a mixture of Islamic, Christian, and Jewish characteristics.

Two major refrigerating machines for exhibit in the new hall of power machinery were received this year: the first commercially successful centrifugal refrigeration compressor from Carrier Corporation, and a typical steam-driven reciprocating ammonia compressor from Clifton Springs Sanitarium and Clinic. The compressor was generously restored by the Frick Company. The first seven bridge models for the new hall of civil engineering were completed; they exhibit an unusually high level of excellence in the model builder's art.

About 3,000 original large tracings, on cloth, of heavy mining machinery for the period 1875-1902 were received from Calumet & Hecla, Inc. This valuable collection represents an important part of the creative work of Erasmus D. Leavitt (1836-1916), a widely known and highly honored mechanical engineer. The archival collections of the division have grown, largely through the efforts of associate curator Vogel, to a major repository of source materials in the history of mechanical and civil engineering.

The Cumberland Valley Railroad locomotive *Pioneer*, built by Seth Wilmarth in 1851. Gift of the Pennsylvania Railroad through its vice-president John S. Fair, the locomotive was placed on exhibit in February 1961.

An early (1903) gear-shaping machine from the Fellows Gear Shaper Co., intended for exhibit in the new hall of tools, is one of a growing collection of machine tools that were significant in the rise of the United States as an industrial nation. The first universal grinder (1883) by Abraham B. Landis and an animated model of a modern large transfer-type machine for high-production grinding of automobile crankshafts were received from the Landis Tool Co.

With a particularly gracious gesture, Monseigneur Roger Michon, of Chartres Cathedral, provided us with a color transparency of the Cathedral's stained glass window of "Le Tourneur," by a 13th century craftsman. The window, located high in the Cathedral, was photographed personally by Msgr. Michon with his own telescopic equipment. He noted with pleasure that "Chartres will be represented in your new Museum."

Among the outstanding gifts in the section of marine transportation is a model of the brigantine sloop *Ferret*. This Admiralty model is a gift of Lansdell K. Christie. From the Grace Line, Inc., we received a model of the passenger liner *Santa Paula*. Other outstanding models received were the blockade runner *Fergus*, paddle steamer *George Law*, whaleback *Frank Rockefeller*, New York pilot boat *Anna Maria*, and the *Savannah*, 1819 steamship that crossed the Atlantic Ocean. In the section of land transportation a colonial chaise, together with funds for its restoration, was received from Stewart Huston. Also received was a collection of fire fighting apparatus from Dr. Karl B. Bretzfelder. The Baltimore & Ohio Railroad Company, through L. W. Sagle, donated a collection of glass-plate negatives and car drawings.

The division of electricity has been particularly fortunate in obtaining the Palmer Collection of early electrical equipment from Princeton University. The collection is an important one and provided most of the illustrations in M. Maclaren's "Rise of the Electrical Industry During the 19th Century." It is exceptionally rich in examples of laboratory meters, telephonic apparatus, power switch-gear, and incandescent lamps. Two other large groups of specimens were also acquired; one from Brown University, consisting primarily of motors and generators, together with some interesting wireless telegraph equipment, and one from the Weston Instrument Company, consisting of early commercial meters. The Standardizing Laboratory of the General Electric Company is also sending us a fine collection of meters of the 1880's.

Among the commercial pieces, some of the most outstanding were: a telegraph message sent by marine cable from London to Bombay in 1873, from Mrs. Isabel M. Goetschises; a Westinghouse alternator of the late 1880's, from Cornell University; an example of the klystron

first used to supply the power for high energy linear accelerators, from Stanford University through E. L. Ginzton; and a complete mechanical television transmitter, from the State University of Iowa.

The collections of timekeeping instruments have been considerably enhanced by the acquisition of a David Rittenhouse half-size tall clock, which has an astronomical type dial. Only one other precision clock by Rittenhouse is known, and it has undergone much rebuilding. This clock is one of his earlier works and is probably entirely the product of his own hands. Several other outstanding clocks were also obtained, including one from Gideon Roberts, who introduced mass-produced wooden clocks.

Among the accessions in medical sciences during the past year has been a significant collection of dental instruments, from the S. S. White Dental Manufacturing Company; most important were those related to dental drilling. The New England Hospital for Women and Children Nurses Alumnae Association donated an early uniform, worn by Linda Richards, and other personal memorabilia, including a Tolles microscope. Miss Richards was the first woman to receive a diploma from any American training school for nurses. A number of medals, diplomas, and other memorabilia have been received from the estate of Abraham Flexner, in accordance with his bequest. Additions to the drug-jar collection included two 16th century Belgian jars and one 19th century Danish jar. A 19th century Robervahl balance was received from J. Stanley Falck.

Arts and Manufactures

The division of textiles received a collection of over a hundred 19th-century sewing machines, presented by the Singer Manufacturing Company through Bogart F. Thompson. Machines previously unrepresented in the collection include an 1849 Morey and Johnson machine and an 1849 Blodgett and Lerow, both predecessors of the famous Singer machine, and many 19th-century patent models of Singer and other machines. An outstanding collection of over two hundred sewing birds, hemming clamps, and related needlework accessories was donated by Miss Mabel Whiteley.

Mrs. Herbert Arthur May presented an interesting collection of laces and embroidery, including examples of Chantilly, Brussels, Maltese, and Venetian needlepoint. Mrs. May also gave to the division of ceramics and glass 13 pieces of American glass from a special service made for her yacht *Sea Cloud*.

Other specimens accessioned by the division of ceramics and glass are: a rare Castleford urn with painted decorations, presented by Mrs. George H. Myers; 28 pieces of porcelain, including an English Lowestoft teapot, a China trade porcelain fruit basket, Sèvres tea set,

and a Liverpool coffee pot, all of the 18th century, donated by Mrs. William A. Sutherland; and a unique piece of Americana, consisting of an Oriental Lowestoft cider jug and cover, with painted decorations with the inscription "Jefferson and Liberty," surmounted by an American eagle and 17 stars, given by R. Thornton Wilson.

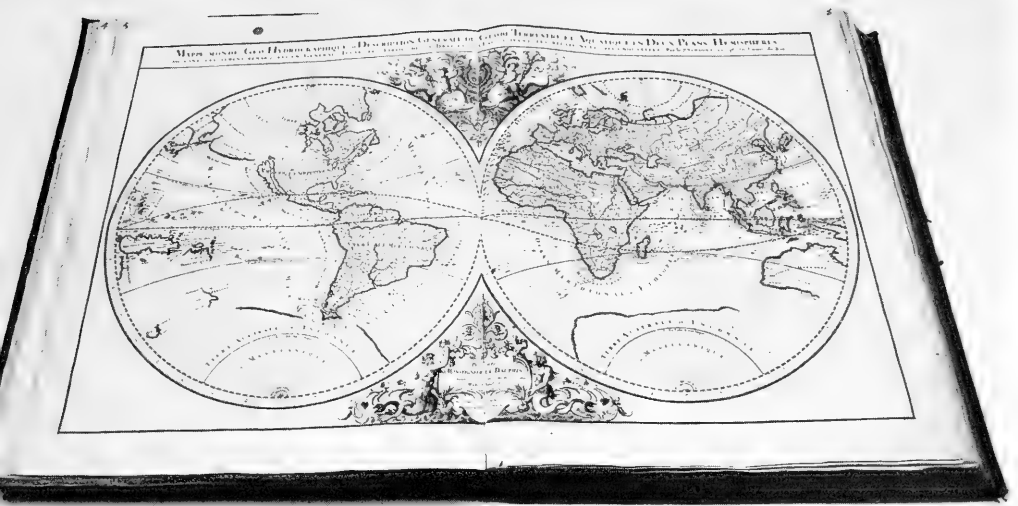
A fine group of chiaroscuro woodcuts was acquired by the division of graphic arts. The group includes two examples by the important early 16th-century pioneer, Antonio da Trento, *St. Matthew* and *The Martyrdom of St. Paul and St. Peter*; *The Descent from the Cross*, by Ugo da Carpi, founder of the chiaroscuro process in Italy; works by the most important 17th century practitioners, such as *Aeneas Carrying Anchises* by Ludolph Busineck; *Death of Lucretia* by Paulus Moreelse; and *Sibyl with Books* and *Virgin with Jesus and John* by Bartolomeo Coriolano. The 18th century is represented by John Baptist Jackson's *Pietà* and the outline block for his *The Virgin in the Clouds and Six Saints*. Ralph E. Wareham presented to the section of photography a Lechrome National Photocolor One-Shot Color Camera. This type of camera simultaneously exposes a complete set of color separation negatives which are used to produce color prints. A display of motion picture film strips explaining their Technirama process of cinematography was donated by Technicolor Corporation.

Several significant specimens were received in the division of manufactures and heavy industries. In the section of petroleum, Universal Oil Products Company and Esso Standard Oil Company, in association with the M. W. Kellogg Company, prepared models and flow charts illustrative of phases in the development of petroleum refining. William C. Cleveland, consultant in the section of general manufacturing, has been successful in locating more than 100 machines typical of the development of the metal working trades. These will provide an excellent basis for a treatment of the history of fasteners of all kinds. A number of important pieces of equipment have been transferred by nuclear physics laboratories at Argonne, Chicago, and Washington, D.C.

Civil History

Received as a gift from President John F. Kennedy was a magnificent volume, the *Atlas Nouveau*, compiled by Nicolas Sanson and published in 1692. This richly illustrated atlas, intended for the instruction of the Dauphin of France, is bound in a contemporary red leather and gilt binding.

Former President Dwight D. Eisenhower donated a Portuguese standing lamp in silver, a carved teakwood elephant and rider presented to him by His Majesty Bhumibol Adulyadej of Thailand, and an elaborately carved scene from the Mahabharata in ivory and san-



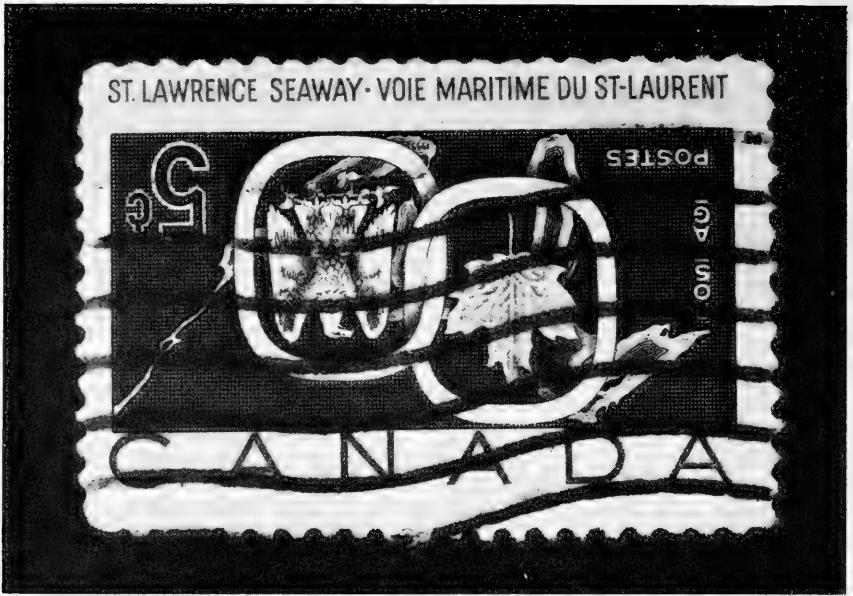
Gift of President John F. Kennedy, this atlas was compiled by Nicolas Sanson and was published in France in 1692.

dalwood, presented to him by the President of India. Mr. Eisenhower also gave the twin microphones over which his voice was frequently carried during his 50,000-mile campaign of 1952.

Mrs. Dwight D. Eisenhower presented a pink embroidered organdy dress given her by Mrs. Carlos P. Garcia, wife of the President of the Philippines.

Ralph E. Becker continued his donations of political campaign paraphernalia of the past. Significant among the gifts is a preserve crock inscribed "25,000 Majority General Jackson"—a protest against the fact that although General Jackson rolled up a majority of greater than 25,000 popular votes over his nearest rival, John Quincy Adams, in the election of 1824, he lost the election. Since no candidate had a majority of the total vote, the House of Representatives chose Mr. Adams from the three candidates having the highest number of electoral votes.

The division of philately and postal history acquired a specialized collection of early Peru, consisting of more than 13,000 stamps and covers in 16 albums, donated by Bernard Peyton. The material portrays the postal history of Peru from the period of Royal Spanish Service to the end of the 19th century. Essays, proofs, and color trials augment the approved stamps, and each issue is thoroughly explored by means of cancellations. One album presents the Pacific



The "Seaway error," a Canadian 5-cent commemorative stamp with inverted center, given to the Museum by George L. Lee.

Steam Navigation Company's stamps and essays, including use on covers. The provisional stamps made necessary by the occupation of Chilean forces in 1879-82 are of great historical value. George L. Lee presented a collection of Egyptian stamps from the Royal Imperforate Printings prepared for Kings Fuad and Farouk. This unusual material was sold by the present Egyptian Government in 1954. Mr. Lee also gave a used copy of the 5-cent Canadian St. Lawrence Seaway stamp with inverted center. This modern printing error, of which only slightly more than 100 are known, including 11 used copies, was discovered in 1959 not long after date of issuance. Widespread interest and limited supply have caused a sharp appreciation for this variety.

The division of numismatics received from Cornelius Van Schaak Roosevelt, grandson of President Theodore Roosevelt, a high-relief experimental 20-dollar gold piece dated 1907, originally owned by President Roosevelt. This rare first striking of a piece designed by the American sculptor Augustus Saint-Gaudens, at the President's request, marks a unique venture in modern monetary history, a venture in which a President of the United States and a famous sculptor worked together to produce a new coin design of high artistic merit. Mr. Willis du Pont donated a very significant additional group of Russian coins and medals of the latter part of the 18th century.

Mrs. Louise Merrick Schermerhorn presented a group of rare gold certificates including a group of three notes dated 1864, 1866, and 1877, typifying the earliest issued of United States gold certificates. To the section of medallic art were added, as a gift from Norman Stack, two rare Washington medals, one made in 1790 by Manly and the other in 1805 by Eccleston. The Medallic Art Company of New York donated an interesting group of models and dies used for the striking of the John F. Kennedy inaugural medal, as well as a process set of medals showing the various steps in the striking and finishing of the medal.

Armed Forces History

The division of military history received a unique Revolutionary War militia color carried at the Battles of Trenton and Germantown, presented by Mr. Francis W. Headman in memory of his son, Francis W. Headman, Jr. Lieut. Col. Calvin P. Titus donated a rare Medal of Honor awarded to him for gallantry in the siege of Pekin, in 1900. Field work at Sackets Harbor, N.Y., Fort Adams, Miss., and on underwater sites in Bermuda yielded significant historical materials for the collections.

The division of naval history received an outstanding collection of German and Japanese ordnance and electronic equipment of World War II, Japanese uniforms, and uniform items of Fleet Admiral Nimitz and Vice Admiral Lockwood. Two objects associated with Pearl Harbor were received. A unique monogrammed dish for the Confederate Navy was added to the Civil War collections.

President John F. Kennedy donated an ancient Greek amphora recovered from the Mediterranean.

Care of Collections

SPECIMENS ACCESSIONED, IDENTIFIED, AND DISTRIBUTED— FISCAL YEAR 1961

<i>Departments</i>	<i>Accessions (transac- tions) 1961 (new)</i>	<i>Received on loan</i>	<i>Exchanged with other institutions</i>	<i>Trans- ferred to education- al institu- tions, etc.</i>	<i>Trans- ferred to other gov- ernment agencies</i>	<i>Lent for study to investigators and to other institutions</i>	<i>Specimens identified</i>
Anthropology . .	61	7	454	5	0	3, 790	21, 006
Zoology	759	1, 552	5, 690	1, 219	116	87, 832	16, 984
Botany	360	8, 074	39, 445	2, 419	2, 046	16, 700	19, 646
Geology	389	385	3, 671	0	159	12, 453	44, 029
Science and Tech- nology.	284	16	4	0	0	73	682
Arts and Manu- factures.	144	25	0	0	0	64	2, 974
Civil History . .	550	22, 531	0	0	0	5, 734	61, 269
Armed Forces History.	123	86	0	0	1	323	2, 533
Total	2, 670	32, 675	49, 264	3, 643	2, 322	126, 969	169, 123

Anthropology

The work of cleaning, repairing, and preserving the basketry in the ethnological collection was continued by chief exhibits specialist A. Joseph Andrews in the anthropological laboratory. Mr. Andrews also made casts of a variety of anthropological specimens and of a few human faces from life, instructed visitors in the special techniques of a museum laboratory, and provided information to correspondents on the care of wooden and ivory objects. He continued the restoration and preservation of various types of specimens, not only from the collections of the department, but also from those of the National Collection of Fine Arts and of the division of cultural history. Scientific illustrator George R. Lewis made 95 drawings, mainly of archeological objects, 35 maps and charts, and he lettered about 16 illustrations.

By contract Henry Courtais remounted, cleaned, and restored 100 more paintings of American Indians by George Catlin. At the close of the year Mr. Courtais was starting work on an additional 100 paintings. New frames are being made in the museum's carpentry

shop for all of the paintings thus far restored. Judging by the frequent inquiries about, and requests for photographs of, the Catlin paintings, there is great public interest in the work of this famous painter of Indians. The second of two large Northwest Coast dugout canoes which had badly deteriorated in the course of years of exposure has been repaired by a boatwright and is soon to be returned to the west court of the Natural History building.

The evacuation of two ethnology exhibit halls under the modernization program made it convenient to check the identification and condition of many specimens, following which the study collections involved were regrouped and consolidated for improved storage and accessibility by assistant curator Robert A. Elder, Jr., and museum aide Clarence A. Bender.

In the new archeological exhibit halls museum aides George Metcalf and Robert Jenkins further reorganized the study collections stored behind the display areas and brought more nearly up-to-date the location records pertaining thereto. Associate curator Gus Van Beek, assisted by museum aide Robert Jenkins, virtually completed the systematic arrangement of the study collections of Old World archeology, so that specimens from Egypt, Mesopotamia, Iran, Palestine, Cyprus, Greece, and Italy are now grouped by culture area and separated by type within the cultural grouping in a manner that permits ready reference by the staff and visiting scientists. Mrs Evelyn Harvey Henning, summer intern, consolidated and fully listed on cards the division's extensive collection of reprints and pamphlets, thus greatly increasing their usefulness.

In the division of physical anthropology, processing of the recently accessioned River Basin Surveys collections was completed by anthropological aide Lucile Hoyme and summer intern Charles G. Strickler.

Zoology

The program of new construction and remodeling involving the Natural History building has made it necessary to move parts of the collection of mammals into temporary quarters and to accelerate some of the long-range projects concerned with the arrangement of that collection.

The merging of the U.S. Fish and Wildlife Service collection into the national collection of mammals was accelerated. With the help of museum aide Reginald Williams, preliminary arrangement of the rodents was almost completed during the year. Miss Viola S. Schantz, of the Fish and Wildlife Service, supervised the index-carding of most of the squirrels. Satisfactory progress was also made on rearrangement of alcoholic specimens and segregated types. A large backlog of unlabeled and unnumbered skulls and skeletons was eliminated by

summer intern John Phillip Angle. During the remainder of the year, this work and the routine cataloging of incoming specimens were kept current by museum aide Robert D. Jackson. The osteological laboratory under Joseph D. Biggs cleaned 3,025 skulls and skeletons of mammals, as well as miscellaneous skeletal materials for other divisions.

All accessions received in the division of birds have been fumigated, identified, and catalogued, and, except for those withheld for study, all have been incorporated into the main collection. Extensive reworking of the North American birds has been done by Dr. J. W. Aldrich and T. D. Burleigh, of the U.S. Fish and Wildlife Service. The taxidermy staff skinned and made up 51 birds, mounted 33, and cleaned and repaired 27 other specimens.

The inventory of the lizards in the division of reptiles and amphibians was completed by museum aide Dorsey Williams.

The processed and catalogued collection of fishes is in an excellent state of preservation and arranged in an orderly manner that makes them readily accessible.

In the division of insects, the transfer and arrangement of the Monrós collection of Chrysomelidae has been completed by Mrs. Doris H. Blake, and the transfer of the Tippman Cerambycidae collection has also been completed; both of those collections are now housed in standard U.S. National Museum drawers and cases. Dr. Oliver S. Flint, Jr., has identified and arranged the large mass of Trichoptera (caddisflies) that had accumulated over the past 75 years, and it is now readily available for study.

Dr. Ralph E. Crabill, Jr., has continued to examine carefully old material in the myriapod collection, with the result that many additional types were discovered, properly labeled, and recorded. Significant strides have been made in systematically arranging and storing the slide collection of myriapods.

William D. Field has reclassified and rearranged the Morphidae, bringing together the old collections and the specimens acquired from the Ernest Shoemaker collection. Those, together with the Megathyridae also reclassified during the year, are now housed in standard drawers. In addition 10 Schmitt boxes and 30 drawers of miscellaneous Lepidoptera were identified and incorporated in the regular series. Summer intern Donald Duckworth completely rearranged the microlepidopteran family Stenomidae to bring it into line with recent revisions and advances in that group, and the large slide collection of genitalia of that family has been carefully arranged in Technicon slide cabinets. The extensive Tippman collection of Cerambycidae has been labeled and transferred to standard cases, and the entire collection of Collembola has been checked and reconditioned.

Rearrangement of the more or less inactive collections of marine invertebrates was continued by Dr. Frederick M. Bayer; about half the hydroid collection has now been rearranged, cleaned, and checked for preservative. Museum aide Nathaniel Livingston has checked the preservative and cleaned the jars in about one-sixth of the echinoderm collection, one-fourth of the polychaete collection, two thirds of the crayfish collection, and the entire collection of primary types other than crustaceans. He has also fumigated all of the quarter-unit dry specimen cases in the attic to forestall damage by dermestid beetles.

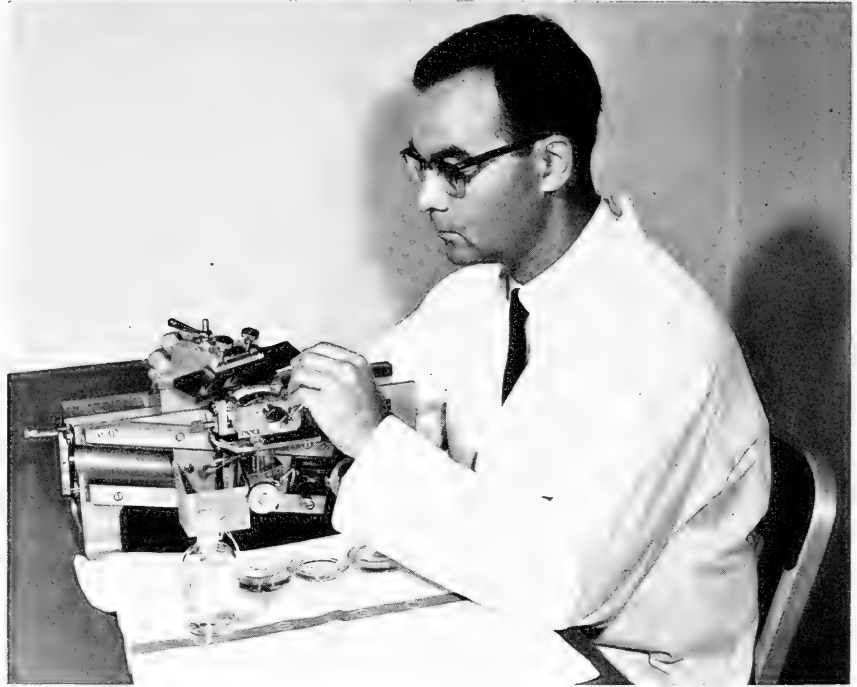
The physical condition of the study collections of mollusks is good, although relatively unchanged from the previous year. Little progress has been made in its reorganization, except for the contribution made by Dr. Joseph Rosewater in adding many drawers of catalogued specimens to the Indo-Pacific marine collection. The condition of the slide and alcoholic collections of helminths at Beltsville continues to be good under the care of members of the staff of the animal disease and parasite branch, who have charge of that collection.

Botany

With the establishment of the division of woods, the wood collection formerly under the division of agriculture and wood products was transferred intact to the new unit. Since the collection is arranged in a numerical sequence, rather than taxonomically, it does not require periodic changes to allow for new material. In anticipation of expansion into other fields of plant morphology, collections of microscope slides of pollen and of sections of wood, both arranged taxonomically, were started this year. The slides are filed vertically in 3- x 5-inch aluminum holders, a method that allows easy interpolation of new slides.

Wood samples and microscope slides require little care. Wood samples recently received from the field may be infested with wood-destroying insects, but treatment with ethylene dichloride-carbon tetrachloride effectively destroys them. Samples which may be in the "green" condition when received are dried in an unheated conditioning room for several months before being placed in the collections. Such treatment allows the woods to dry and minimizes subsequent checking and splitting.

In the division of ferns, summer intern David Lellinger organized the more than 8,000 photographs of type specimens of ferns, taken in Europe by curator Conrad Morton, so that they can be readily consulted. For the first time numbers were assigned to the fern genera, following the numbering and system of Carl Christensen, Index



Sectioning on a sliding microtome is the first step taken by Curator William L. Stern in preparation of microscope slides of wood for reference files and research.

Filicum, which is the principal standard arrangement of ferns. This has made possible the preparation of indices which are now attached to the ends of the cases, to facilitate the finding of the genera.

The W. H. Long fungus collection, which had been kept separate, was interpolated into the general collections by honorary research associates C. R. Benjamin and John A. Stevenson, as were the fungi from the Goucher College herbarium.

The major activities in caring for the permanent collections and the processing of new material are summarized in the following table:

	1959-60	1960-61
Specimens and photographs mounted.....	31, 859	25, 946
Specimens repaired.....	12, 584	11, 693
Specimens stamped and recorded.....	37, 526	33, 462
Specimens incorporated in herbarium or added to the permanent collections.....	48, 729	98, 442

There are now 58,438 types in the segregated type herbarium, including 40,619 phanerogams, 10,051 grasses, 3,372 ferns, and 4,396 cryptogams. This is an increase of 514 types during the year.

Geology

Some progress was made by the division of mineralogy and petrology, with the help of museum aides Masaw Williams and Franklin Stephens, in reorganizing the rock sets transferred to the Museum by the U.S. Geological Survey, and other locality sets. The economic geology and physical geology materials formerly on exhibit in halls 6 and 19 have been consolidated and stored in hall 6, pending installation of a new geology exhibit in hall 20.

A beginning has been made on the considerable changes in the collections of the division of invertebrate paleontology and paleobotany that must be accomplished before the move to the new wing is made. Museum aide Lorenzo Ford has been organizing both unstudied and type collections under direction of associate curator Richard S. Boardman. The types of the Paleozoic Bryozoa, corals, and the trilobites have been put in precise alphabetical order. Mr. Ford has also arranged and labeled the Pennsylvanian and Permian parts of the large Renfro collection acquired this year.

Associate curator Richard Cifelli, with the help of museum aide James P. Ferrigno, has made considerable progress on the continuing task of cataloging, labeling, remounting, and distributing the backlog of specimens into the collections. Dr. Cifelli has also made a small beginning in the establishment of a set of thin sections of Foraminifera. In recent years the study of internal structures observed from thin sections has become very important in the taxonomy of this group. The Museum collection of types is probably the world's largest, and, judging from the present trend in the taxonomy of Foraminifera, requests for thin sections of types will soon be a major problem.

Associate curator Porter M. Kier, in charge of the Springer collection of Echinodermata, has cleaned, sorted, and put away nearly 1,000 echinoids collected by him, or received through purchases and gifts.

Associate curator Erle G. Kauffman developed and initiated a major program for the reorganization of the Museum molluscan collection during the year. Under this program, all type specimens will be placed together in a single collection for each class. Nontype biologic sets will be largely reorganized in biologic rather than alphabetical order, using the *Treatise of Invertebrate Paleontology* as the basis for classification. Mesozoic mollusks in the Museum collection will be integrated with those of the U.S. Geological Survey to form a master biologic set.

Museum aide Henry B. Roberts reorganized the collection of fossil decapod crustaceans, arranging this collection in accordance with the classification employed by Bales in the new edition of "Das Tierreich."

The exhibition modernization program in the division of vertebrate paleontology has occupied nearly all of the time of the laboratory personnel in the preparation, mounting, and installation of vertebrate materials, so that very little has been accomplished in the care of the study collection except for the preparation of certain fossil whale materials that came in during the year. Associate curator David H. Dunkle utilized the services of museum aide John D. Gassaway in rearranging part of the fossil fish collection, and curator C. Lewis Gazin, in the course of research on the Knight faunas, has nearly completed cataloging the lower Eocene mammalian collections, the results of five seasons' field work.

Science and Technology

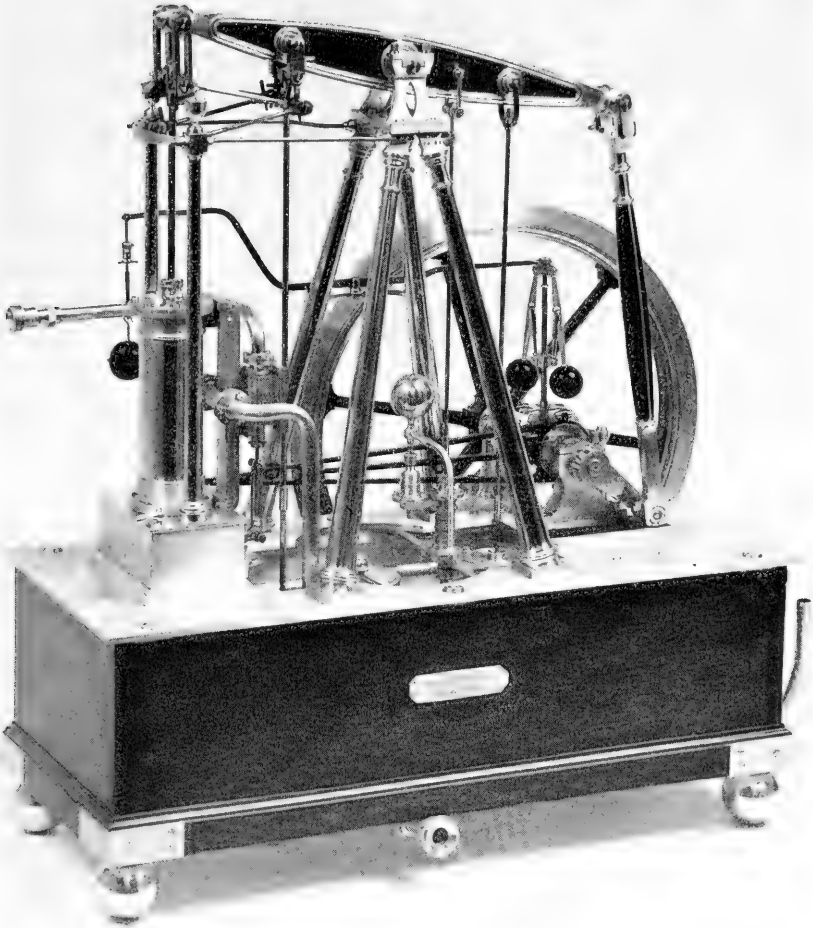
All specimens received this year in the division of electricity have been accessioned, catalogued, cleaned, and placed in storage or on exhibit. Electronics technician Roy La Roche cleaned the specimens and checked their placement on the catalog cards. Additional storage space set up in the wood court was of considerable assistance because of the growing size of the collections.

Two of the finest models in the division of mechanical and civil engineering were thoroughly restored this year, an exquisitely detailed beam steam engine of about 1830, built by Banks of London, and a large waterworks pumping engine, built at the Corliss works in 1870. Both models will be exhibited in the new Museum.

Through machinist William Henson, adequate equipment for a machine shop has been obtained through surplus channels from the Washington Naval Weapons Plant, and under his hands the systematic restoration of machine tools and other objects for the hall of tools is being carried out at an accelerated pace.

In the division of medical sciences, museum aide Everett A. Jackson has been engaged in a cleaning and restoring program, beginning with objects scheduled for exhibition in the new museum. Acquisition of a small amount of new storage space has made possible a more logical and orderly rearrangement of the reference collection. The catalog cards in the section of medical and dental history, heretofore filed numerically, were refiled by subject groupings, and a similar project is progressing in the section of pharmacy and health. A new subject-group index to the photograph collection is also being prepared by museum aide George H. Ford, who continues to devote a major part of his time to the maintenance of operating exhibits in the hall of health.

In the division of transportation, restoration of the Locomobile steam automobile is nearly completed, and restoration of the cycle collection is proceeding fairly rapidly.



This teaching model of a beam steam engine, made about 1830 by Banks of London and now on loan from the Massachusetts Charitable Mechanics Association, was restored for eventual exhibition in the new Museum.

The rail collection was inventoried and many unidentified sections were catalogued. Detailed sketches were made of each rail section and placed on the catalog cards for future reference. The cards were refiled according to style and material.

Arts and Manufactures

The division of agriculture and forest products has continued its program of renovation of the farm machines in storage at Silver Hill. Most of this is being done at the model shop, where laborer John W.

Smith has cleaned, repainted, and restored several machines, including a horse-drawn drill and a disc harrow. Through the efforts of museum aide John Wingo, the farm machinery hall ranked as one of the best maintained. Consolidation of storage has continued in the division of ceramics and glass, with sixteen additional units being added to the Arts and Industries building storage section. Inventory and rearrangement of storage items has been well advanced. Cataloging and accessioning of new objects and recataloging and checking identification of objects received by transfer from other divisions is progressing satisfactorily.

In the division of graphic arts museum aide James W. Norwood matted and made minor repairs to approximately 820 prints. Some 315 patent models of presses and allied inventions dealing with printing, typefounding, and typecasting were cleaned and inventoried by museum aide James Norwood, who also gathered information for use in preparing divisional record cards for these unlisted specimens. Associate curator Eugene Ostroff, in cooperation with consultant Dr. Rudolf Kingslake, Director of Optical Design of Eastman Kodak Company, completed identification of the photographic lens collection. Wherever necessary the lenses were restored.

The division of manufactures and heavy industries continued its program of review of existing collections and has completed reorganization of storage. Museum aides John Carter and Linwood Lucas have cleaned and renovated a number of specimens and models and handled the large number of items received at the Smithsonian storage facility. In the division of textiles hundreds of textile patent models previously stored on open shelving were removed, checked, cleaned, and relocated in new metal lockers by museum aide Everett Parker. Reorganization of the fabric and lace storage continued. Lace edgings were rolled on plastic film for easy handling. The work of re-storing by type and style in preparation for improved study storage in the new building is slow, but important.

Civil History

A major project in the division of cultural history was the restoration of a rare early American wooden statue of William Pitt, carved in 1801 by Joseph Wilson for "Lord" Timothy Dexter. The figure had been ravaged by carpenter ants and dry rot. Most of one arm had disintegrated, while concrete poured into the hollow center of the torso had caused the remaining solid wood to split. Considerable work was involved in removing the concrete and rotten wood, constructing the interior surface to form a solid mass, and substituting new wood to rebuild the statue. The task became one of artistic skill disciplined by painstaking observation of existing evidence as



What remained of carved wooden statue of William Pitt, before restoration. It is the last of some 30 figures made in 1801 by Joseph Wilson to decorate the lawn of "Lord" Timothy Dexter's estate in Newburyport, Mass.

Above right: Restorer Gordon Dentry sculpturing reconstructed parts of William Pitt statue.

The completed restoration is now on exhibit in the hall of life in early America.



missing surface areas were sculptured in the new wood. Careful study of the paint colors was made, using both documentary references and the archeological evidence of paint layers. A white undercoat was applied, followed by exact copies of the earlier applied colors, leaving inconspicuous squares of original paint as evidence. The result is a bizarre and gaudy figure with much gold trim, quite in keeping with the attention-seeking flair of the self-titled "Lord" Timothy, as well as an outstanding restoration of an American masterpiece of folk carving.

In the division of numismatics, all the United States bronze and silver coins on exhibit were mounted in tightly closed boxes, made of clear cellulose triacetate K IV, that provide an airtight enclosure and should prevent noticeable corrosion or tarnishing. The boxes are attached to the display panel with a recently developed fastener consisting of two strips of woven nylon tape, one covered with a row of stiff nylon hooks and the other with tiny, soft nylon loops. When the strips are pressed together the hooks and loops engage to create a secure and easily removable fastener.

Most of the foreign silver coins and medals on display could not be suitably enclosed in such boxes because of extreme variations in diameter and thickness. To prevent tarnishing these specimens were given a protective coating, which proved satisfactory.

The program of regrouping stamps in new stockbooks in the division of philately and postal history is being continued. Specialty and reference collections have been maintained intact, and the albums stored with the stockbooks according to country for easy identification. The philatelic and historic collection of covers has been started with several transfers of material from The Library of Congress. More than 4,500 covers have been added to the collection, many of which are to be used in the new "History of the Posts" exhibit.

Armed Forces History

Substantial progress was made in the restoration of objects in the collections. The program of repairing and cleaning firearms and other military equipment progressed satisfactorily. Renovation of the ship and half model collections continued at an accelerated rate.

Under the direction of Dr. Philip K. Lundeborg, 25 half models were restored, including a plank-on-frame model of the frigate *Constitution*, a frame model of the 74-gun ship *Ohio*, a squirrel cage model of the 120-gun ship *Pennsylvania*, a lift model of the sloop-of-war *Hartford*, and a decorative model of the monitor *Monadnock*.

Old, wet wood recovered from underwater shipwreck sites is being preserved with polyethylene glycol, an inert, water-soluble material

which penetrates and fills the cells of the wet wood, and supports them when the wood dries out. In the higher molecular weights this substance is a white solid of waxlike consistency.

Wood recovered from salt water should, upon drying out, retain its original shape if treated by the following routine:

1. The wet specimen from sea water is soaked in a bath of fresh water, renewed every four hours.
2. When the fresh water no longer shows the presence of chlorides through the silver nitrate test, the wood is placed in a solution of one part polyethylene glycol (molecular weight 1,500) to one part hot distilled water.
3. The specimen is left in the solution until it sinks, indicating complete saturation.

Investigation and Research

Museum of Natural History

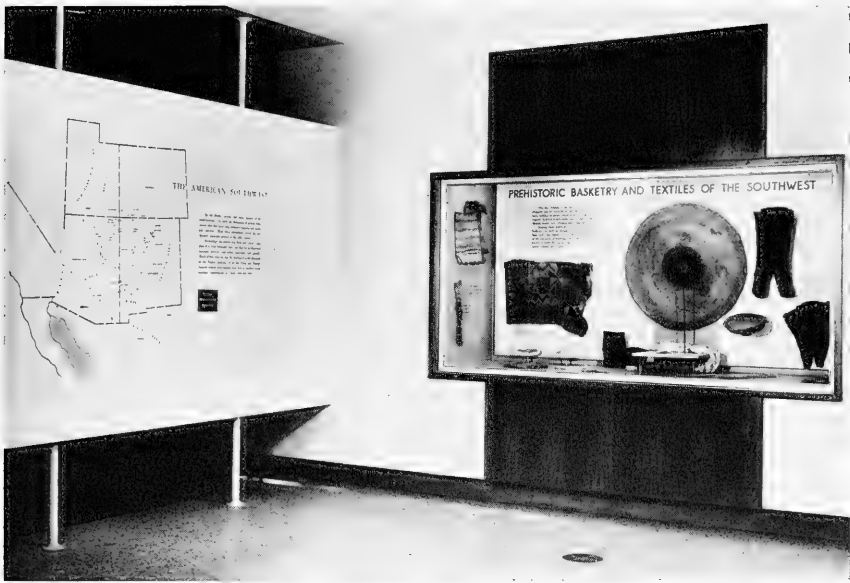


In the newly opened North American archeology hall, Indian remains from western North America include a mummy bundle from an Aleutian island burial cave. Chumash Indians (right) are depicted roughing out bowls and quarrying soapstone on Catalina Island, off California.

Anthropology

Late in 1960, preparatory to retirement, former head curator Frank M. Setzler turned over to C. Malcolm Watkins, curator of cultural history, the draft of his report on archeological excavations carried out in 1956 at the site of the colonial town of Marlborough, near the point bearing that name on Potomac Neck, in Stafford County, Va. Mr. Watkins will integrate the account with his own studies carried out at this interesting colonial site and with others on the historical documents relating thereto to produce a unified report for publication.

After taking over the head curatorship, Dr. T. Dale Stewart completed a manuscript on Neanderthal cervical vertebrae, with special attention to the Shanidar Neanderthals from Iraq. As the work



Prehistoric Indian basketry and textiles of the American Southwest. Large round basketry shield is one of three or four known to exist.

progressed he found it necessary to borrow from the Peabody Museum of Harvard University the original cervical vertebrae of the Skhül V Neanderthal from Mount Carmel in Palestine. The Skhül-Shanidar cervical spines are the most complete thus far recovered from ancient times. In general the neck vertebrae of the Neanderthals are not as different from those of modern man as earlier studies had indicated.

Archeology.—Dr. Waldo R. Wedel, curator of archeology, made some headway in the preparation of field reports on the 1952 investigations by the Smithsonian Institution and Princeton University at the Horner site near Cody, Wyo., and of the report on field work for the River Basin Surveys in 1951, and again in 1955–57, in Stanley County, S. Dak. In addition, he completed for publication in a dedicatory pamphlet projected by the Museum of the Great Plains, Lawton, Okla., a paper on some archeological problems in the Great Plains, and began work on a paper dealing with the High Plains and their utilization by the Indian, essentially an ecological study of native man and environment in the heart of what was once known as the Great American Desert. He also read proof on his book, “Prehistoric Man on the Great Plains,” being published by the University of Oklahoma Press.

Early in the year, as a result of the discovery near Littleton, Colo., of a late Pleistocene bone bed with possible human associations,

Dr. Wedel, in conjunction with Dr. C. Lewis Gazin, curator of vertebrate paleontology, developed plans to explore the site. Field work was initiated in June, with museum aide George Metcalf conducting the field operations.

During the summer of 1960 associate curator Clifford Evans and his wife, honorary research associate Betty J. Meggers, attended the 34th International Congress of Americanists in Vienna, Austria, and the 6th International Congress of Anthropological and Ethnological Sciences in Paris, France, reporting on the results of their recent research. Before and after the congresses, they studied South American archeological collections in museums in Norway, Sweden, Denmark, Austria, Switzerland, and France. While in France Drs. Evans and Meggers also visited the following sites of the Paleolithic period: Lascaux, Laugerie Haute, Laugerie Basse, Combarelles, Abri de Cap Blanc, Les Eyzies, Abee Pichaud, and Le Moustier.

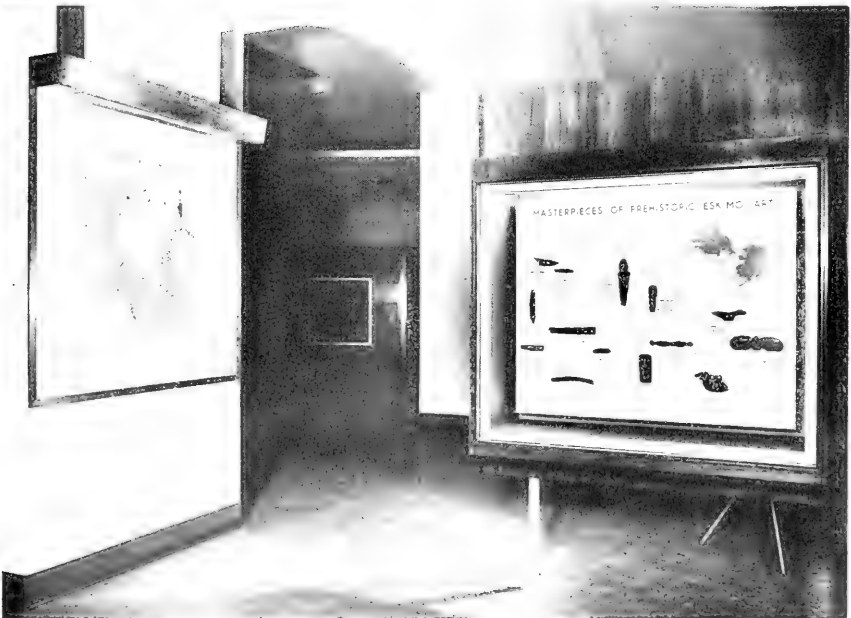
The obsidian dating project, under Dr. Evans' supervision, got under way in September when Dr. Donovan Clark arrived from Stanford University to assume the position of research assistant in the division of archeology. Since then Dr. Clark has examined and measured the hydration layers in over 600 specimens from various parts of the world.

Drs. Evans and Meggers continued their study of the cultural sequences of Coastal Ecuador in conjunction with Emilio Estrada, Director of the Museo Arqueológico "Victor Emilio Estrada," of Guayaquil, Ecuador, who was in Washington during parts of March and April.

Associate curator Gus W. Van Beek developed plans for a program of research in South Arabian culture history, involving an expedition to depart for Arabia in the fall of 1961. Accordingly much time during the spring was spent in organizing the expedition, selecting equipment, and making necessary arrangements with the various officials of the area in which the investigations will take place.

Dr. Van Beek continued work on a monograph entitled "Hajar Bin Humeid," which will be the final report on the excavation of the South Arabian site of that name and will contain the first pottery chronology of the area. He also collaborated in the preparation of a report on a squeeze of a South Arabian stamp seal discovered in the collections of the Vienna Academy by Dr. Albert Jamme, research professor, Catholic University of America. The stamp seal from which the squeeze

Exhibits worker (top) applying detail to map locating sites of prehistoric Eskimo cultures in the Arctic. Among the decorated artifacts (bottom) are knives, handles, harpoon heads, and figurines made of walrus ivory. They illustrate the various art styles around Bering Strait from 300 BC to AD 1000.



was made is virtually identical to a stamp found in Palestine in 1957 and jointly published by Drs. Van Beek and Jamme.

Museum aide George Metcalf made considerable progress on the analysis of data in connection with the preparation of a monograph on the Davis Creek site in central Nebraska.

Honorary research associate Neil M. Judd continued his research on the archeological materials from Chaco Canyon, N. Mex., which he collected years ago for the National Geographic Society.

Physical anthropology.—From the first of June until the latter part of August, curator T. Dale Stewart participated in a jointly sponsored Columbia University-Smithsonian Institution expedition to Iraq. Between June 3, the date of his arrival in Baghdad, and July 16, when he departed for Shanidar in northern Iraq, Dr. Stewart spent most of his time in the Iraq Museum restoring and studying the skull and associated vertebrae of Shanidar II, the Neanderthal found in 1957 about 23 feet below the present floor of the cave at Shanidar and thus suggesting an age of around 60,000 years. From July 18 to August 15 he aided in the recovery and removal of three new Neanderthal skeletons from the cave. Study of the new finds could not be undertaken this year and will require a return visit to the country. However, Dr. Stewart was able before leaving Baghdad to prepare a description of the Shanidar II skull for publication in *Sumer*.

Before leaving for Iraq Dr. Stewart amplified a paper he had read at the annual meeting of the American Association of Physical Anthropologists in 1959. This had to do with the unusual morphology of the mastoid region in the Shanidar I Neanderthal and the possibility of deducing therefrom that the Swanscombe skull fragments from England, attributed to the last interglacial period, had the same structures and therefore likely the same primitive appearance of the face.

The research of associate curator Marshall T. Newman included the preparation of papers on such topics as evolutionary changes in body size and head form in American Indians, the physiology of Middle American Indians, the biological adaptation of man to his environment, generalizations on phenotypic and genotypic differences among American Indians, and ecology and nutritional stress in man. These papers were presented at various symposia and seminars. Dr. Newman also completed two chapters of his Vicos monograph, which involved the recasting of the metric data and the analyzing of eight blood group systems. Not only did this relate to the Quechua Indians of Vicos but to other Indians for which suitable data are available. At the end of the year he was preparing to return to Peru for his final field study at Vicos.



Lounge, with a view of the Mall, provides a place for changing topical exhibits in the new hall of North American archeology, and a change of pace for Museum visitors.

Anthropological aide Lucile E. Hoyme visited the laboratories of the Eastman Kodak Company in Rochester, N.Y., in November. While there she consulted with the staff, and with W. S. Cornwell in particular, on various radiographic problems that arise in the course of her work in the division and received intensive instruction in new radiographic techniques.

Ethnology.—Curator Saul H. Riesenbergs was occupied throughout the year with planning for the new ethnological halls. Also, he served as convener of the symposium on ethnohistory of the 10th Pacific Science Congress, scheduled to meet in Honolulu in August–September 1961. In this capacity he arranged for the participation of various persons from several nations and for the editing and publishing in a scientific journal of all papers to be presented.

Associate curator Gordon D. Gibson spent most of the year in ethnological field work and in collecting among the Herero of southwest Africa and Bechuanaland. He was on his way home via Europe at the close of the year.

Associate curator Eugene I. Knez, like Dr. Riesenbergs, was mainly occupied this year with exhibit problems. However, he was able to complete for publication a preliminary paper on mutual aid groups of

Korea. Also he continued his research pertaining to change in Korean village technology.

Research by visiting investigators.—Among the distinguished visitors and scientists who utilized the collections and other resources of the department of anthropology in furthering their research were the following:

Carlos Zevallos Menendez, Casa de la Cultura Núcleo del Guayas, Guayaquil, Ecuador; Naotune Watanabe, Shozo Masudo, and Namio Egami, University of Tokyo, Japan; John Murra, Vassar College; José Rafael Arboleda, Universidad Javeriana, Bogotá, Colombia; Luis Aveleyra Arroyo de Anda, Museo Nacional, Mexico; Frederico Engel, Institute of Prehistoric Archeology, Lima, Peru; Hansjürgen Müller-Beck, Historiska Museum, Bern, Switzerland; Artur Hehl Neiva, Catholic University, Rio de Janeiro, Brazil; Edward V. McMichael, Charleston, W. Va.; Ripley Bullen, Florida State Museum; James A. Ford, American Museum of Natural History; Raymond S. Baby, Ohio State Museum; Alex Krieger, University of Washington; Paul A. Clement, University of California at Los Angeles; Immanuel Ben-Dor, Emory University; Ray L. Cleveland, W. F. Albright, and George Kratkov, Johns Hopkins University; Albert Jamme, Catholic University of America; William Y. Adams, UNESCO; A. Henry Detweiler and W. L. Reed, Cornell University; Charles Fritsch, Princeton Theological Seminary; Prescott H. Williams, Jr., Austin Theological Seminary; Ralph S. Solecki, Columbia University.

Melvin L. Moss, Columbia University; Montague W. Cobb and Janet A. Hartle, Howard University; John A. Cooper, Honolulu, Hawaii; H. J. Mehta, B. J. Medical College, Ahmedabad, India; Howard Shaub and Bonita J. Peterson, Baltimore, Md.; Juan R. Munezaga, University of Chile; Martin Gusinde, Catholic University of America; Tadeusz Bielicki, Catholic University, Lublin, Poland; E. Dávalos Hurtado, Instituto Nacional de Antropología e Historia, Mexico; H. Karplus, L. Greenberg Institute of Forensic Medicine, Jaffa, Israel; D. F. Roberts, Oxford University, England; Elwyn Simons, Yale University; Unto Uatilo, Helsinki, Finland; Gerardo Zapata, Don Fernando Medical School, Lima, Peru.

Omer C. Stewart, University of Colorado; Norman Feder, Museum of the American Indian; Colin Turnbull, American Museum of Natural History; James B. Byrnes, North Carolina Museum of Art; C. R. H. Taylor, Alexander Turnbull Library, Wellington, New Zealand; Aarne A. Koskinen, Academia Scientiarum Fennica, Helsinki; Robert B. Inverarity, Adirondack Museum; Wan Soo Han and Sang Guk Ahn, Seoul, Korea; Dilowa Hutukhtu (Living Buddha), Mongolia; Urgunge Onon, Mongolia; Herbert H. Vreeland III, Washington, D.C.; H. H. Pian, Cambridge, Mass.

Zoology

After 32 years of service on the Museum staff, Dr. Herbert Friedmann retired as head curator May 31, 1961, to become director of the Los Angeles County Museum. His bulletin on the parasitic weaverbirds was published, and the latest of this series of monographs, "Host Relations of the Parasitic Cowbirds," was accepted for publication by the National Museum.

Mammals.—Curator David H. Johnson continued to study the mammals of the southeastern Asiatic and Pacific Ocean areas, and

in addition he began a survey of the existing specimens and records of mammals collected by the United States Exploring Expedition of 1838–1842. Brief visits to Philadelphia in September and to Boston, New York, and Philadelphia in March were devoted to these projects.

Associate curator Henry W. Setzer continued to identify and report on the mammals collected in Egypt and adjacent countries by U.S. Naval Medical Research Unit No. 3. A paper describing two new Egyptian mammals was published. From early March until mid-May, Dr. Setzer participated in the Smithsonian-Collins Expedition to Libya, which was organized and led by Robert L. Pomeroy and Alan C. Collins. The party traveled overland from Benghazi by way of Cufra Oasis to Faya in northern Tchad, investigated the little-known Tibesti Mountains on the Libyan-Tchad frontier, and returned to the Mediterranean coast by way of Sebha Oasis. In all, the party traveled about 5,000 miles, and Dr. Setzer obtained a valuable collection of mammals. Enroute to join the expedition, he spent three days in early March at the British Museum (Natural History) in London, comparing type specimens of various European and African mammals.

Associate curator Charles O. Handley, Jr., continued his taxonomic studies of mammals from the Neotropical region and from the southeastern United States. He also completed a manuscript on the marine mammals of the Middle Atlantic coast of the United States.

Birds.—Curator Herbert G. Deignan read proof of his bulletin on the type specimens of birds in the National Museum, published this year, and of his checklist of the birds of Thailand.

Bernard R. Feinstein, museum aide, spent the year in South Vietnam collecting with an expedition jointly conducted by the Bernice P. Bishop Museum of Honolulu and the U.S. Army Medical Research and Development Command.

Dr. Alexander Wetmore, honorary research associate and former Secretary of the Smithsonian Institution, resumed his field studies in Panama from January to April and continued the study of his Panamanian and Colombian collections.

Reptiles and amphibians.—Curator Doris M. Cochran and Dr. C. J. Goin, of the University of Florida, continued their studies on Colombian frogs and published the description of a new genus and species in connection with those studies. Her Museum bulletin "Type Specimens of Reptiles and Amphibians in the U.S. National Museum," was published.

Fishes.—Curator Leonard P. Schultz and Dr. Carl L. Hubbs, of the Scripps Institution of Oceanography, completed a study of the nomenclature of the nominal genus *Oregonichthys* and the blennioid fish, *Pholis schultzi*. With Dorothea B. Schultz and Randy Mardres,

the curator supervised the preparation of additional microscope slide sections of fossil shark teeth as a preliminary to the proposed study of fossil shark teeth of Chesapeake Bay as compared with the teeth of living sharks. With Dr. Lachner, he continued the preparation of the third and final volume of "Fishes of the Marshall and Marianas Islands."

Dr. Schultz has also directed several continuing programs dealing with sharks: Dr. Carter R. Gilbert has nearly completed a revision of the hammerhead sharks, genus *Sphyrna*; Mrs. Marilyn Malin has assisted in the preparation of a documented file of shark attacks throughout the world, and one paper, in collaboration with Dr. Perry W. Gilbert and Stewart Springer, on attacks during 1959 was completed during the fiscal year; Dr. Victor G. Springer is revising the sharks related to the genus *Scoliodon*; and Dr. J. A. F. Garrick has started a revision of the carcharhinid sharks of the Indo-Pacific region.

Associate curator Ernest A. Lachner, with Dr. Earl E. Deubler, Jr., completed a nomenclatural study of the rosyside dace of eastern North America. Dr. Lachner has also completed the manuscript on the family Echeineidae and has nearly finished the manuscripts on the families Gobiidae, Eleotridae, and Taenioididae for the final volume of the "Fishes of the Marshall and Marianas Islands," referred to above. He has continued his study of the diskfishes, order Echeineiformes, and his revisions of the cardinal fishes, family Apogonidae, and of the goatfishes, family Mullidae.

Associate curator William R. Taylor has completed the manuscript on the fishes of the Arnhem Land Expedition of 1948 and has submitted it for publication in Australia. He has also essentially completed his revision of the North American catfishes of the genus *Noturus*.

Insects.—Curator J. F. Gates Clarke delivered an invitational paper on host specificity in certain moths at the XI International Congress of Entomology held in Vienna in August. Several visits to the Vienna Museum afforded the opportunity to examine and study numerous types of Neotropical Microlepidoptera in connection with researches being conducted on that fauna. While in Europe, Dr. Clarke also took advantage of the opportunity to study for a month at the British Museum (Natural History), where many types of the same group were examined. His continuing work on the Meyrich types of Microlepidoptera has progressed well during the year: proof has been read on volume four, and more than 200 plates have been completed for volume five. Dr. Clarke's research on the Neotropical Microlepidoptera has also received a great deal of attention, and one small paper on this fauna was completed.

Associate curator Oscar L. Cartwright has completed his extensive study of the genus *Onthophagus* (Scarabaeidae) and is continuing his research on the genus *Ataenius* in the same family. Species of both genera are important as suspected intermediate hosts of parasites of domestic and other animals.

Associate curator Ralph E. Crabill, Jr., completed his work in European museums in August 1960, having begun this study trip in March. From February 13 to March 13, he examined typical and ordinary specimens of Chilopoda at the Museum of Comparative Zoology in connection with his study of this group of animals, concerning which several significant papers have been published. On May 31, 1961, Dr. Crabill left again for study in London, Hamburg, and Frankfurt.

Associate curator William D. Field is continuing his studies on the Lycaenidae and is also working on the genus *Ceramidia*, a group of moths destructive to bananas. A paper in preparation on this genus is important because it proposes to provide a ready means of identifying these banana pests. Following a trip to Atlanta, Ga., in June in connection with the acquisition of a collection, Mr. Field undertook a visit to the mountainous regions of North and South Carolina to conduct field work on Rhopalocera.

Associate curator Oliver S. Flint, Jr., is engaged in research on the immature stages of the Trichoptera (caddis flies), and he is acquiring much needed material to fill the many gaps in our collection. In addition to week-end field trips to procure material, Dr. Flint, in May 1961, visited Cornell University, obtaining more than 200 specimens of Neotropical species for study, and from June 3 to 10, conducted field investigations in the vicinity of Highlands, N.C., an area in which are many relic forms and one from which we have nothing of this group in the national collection.

Marine Invertebrates.—Curator Fenner A. Chace, Jr., completed his joint manuscript with Harry Pederson and the late Conrad Limbaugh on the fish-cleaning habits and life color patterns of six species of caridean and stenopodidean shrimps.

Associate curator Frederick M. Bayer has completed the revision and correction of the second page proof of his handbook of shallow-water West Indian octocorals now in press in the Netherlands.

Associate curator Thomas E. Bowman, in collaboration with Z. Kabata, of the Marine Laboratory at Aberdeen, Scotland, completed a manuscript reassigning the lernaepodoid copepod *Tracheliastes grandis* Wilson to the genus *Vanbenedenia*, as a synonym of *V. kroyeri* Malmgren, based upon a thorough redescription of Wilson's holotype specimen. He has brought to virtual completion the description of a new species of the copepod genus *Tisbe*, including an account of its

developmental stages reared in the divisional laboratory. Finally, he has made some progress upon his study of the calanoid copepods collected off the southeastern coast of the United States by the M/V *Theodore N. Gill*.

Associate curator Charles E. Cutress, Jr., began a report on the sea anemones of Port Phillip Bay, Australia, and continued his study of the sea anemones of the Chatham Islands Expedition of 1954.

Mrs. LaNelle W. Peterson, museum aide, in addition to her other duties, has made steady progress in the preparation of a catalogue of the octocorallian type specimens contained in the museum's collections; this study has been of unexpected value by bringing to light more than 90 lots of type material that had been improperly incorporated in the general study collections. She has also thoroughly reorganized and completed the locality records included in a major manuscript on Pacific tunicates in the national collections recently prepared by Takasi Tokioka, of the Seto Marine Biological Laboratory, Japan.

J. Percy Moore, honorary research associate, now in his 93rd year, continues his research activities in spite of many obstacles. He writes that "research on leeches has continued actively but with limitations imposed by certain personal problems. Most attention was given to large collections submitted by the U.S. National Museum and Tulane University, supplemented by other small lots of leeches of our southern Gulf states. While a large body of notes and drawings is on hand, further studies will be made before a manuscript will be prepared." A few months ago, Dr. Moore's laboratory was vandalized and the results of many years of study destroyed or severely damaged, a blow that would have felled many a younger man. However, he advises us that some progress has been made toward the restoration and identification of whole mounts and serial sections that were intermixed, broken, or otherwise damaged, although he expects that "it will take most of my remaining life to restore them." During the year he completed an account of his personal recollections of Joseph Leidy, whom he knew from boyhood days, to be published by the American Society of Zoologists in a volume on distinguished zoologists.

Mildred S. Wilson, honorary research associate, has completed in collaboration with J. C. Tash a manuscript on the life cycles of calanoid copepods in shallow lakes of the Cape Thompson region, Alaska, and she has begun a manuscript on copepods of Nuwuk Peninsula, Point Barrow, Alaska. In addition, she has continued to make progress on her monograph of the fresh-water calanoid copepods of North America, a long range study.

Horton H. Hobbs, Jr., honorary research associate, has completed, with H. H. Hobbs, III, a paper describing a new crayfish of the genus

Cambarus from Georgia. In addition, he has undertaken (with P. C. Holt and Margaret Walton) an intensive survey of the crayfishes and their commensal associates in the region of Mountain Lake, Va., made further progress on a manuscript (with T. C. Barr) dealing with troglobitic crayfishes of the genus *Orconectes*, continued work on a paper describing the ostracods of the genus *Entocythere* from Mexico and Cuba, and another (with A. Villalobos) on crayfishes from Cuba, and nearly completed a manuscript on troglobitic ostracods of the genus *Entocythere* (with C. W. Hart). He has also found time to identify approximately 1,000 specimens for other persons and to make a collecting trip into West Virginia, southern Ohio, and Kentucky, during which he obtained about 500 additional specimens for his study collection. He reports that his collection has increased by some 3,000 specimens through gifts.

Dr. L. B. Holthuis, curator of Crustacea at the Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands, during a temporary appointment to Smithsonian rolls under the program of systematic studies on Pacific marine animals, reached an advanced stage in his monographic study of scyllarid and palinurid lobsters and completed a manuscript describing the new species involved, before returning to his permanent post.

Mrs. Beatrice L. Burch, general systematic zoologist on temporary appointment under the Pacific program, has completed an inventory of the unidentified Indo-Pacific marine invertebrates contained in our collections, amounting to 23,000 lots containing over 200,000 specimens and representing 64 major invertebrate groups.

As usual, a large share of the burden of marine invertebrate identification services was borne by collaborating specialists in other institutions, in most cases for no more recognition than a word of thanks. This year, 26 specialists have agreed to identify material of several invertebrate groups which owing to limitation of staff and time could not be handled within the division. The individuals listed below have received 35 shipments containing 1,931 specimens:

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| Dr. M. Bacescu: mysidacean crustaceans. | Dr. R. U. Gooding: copepod crustaceans. |
| Dr. J. Laurens Barnard: amphipod crustaceans. | Dr. E. H. Grainger: starfishes. |
| Dr. E. L. Bousfield: amphipod crustaceans. | Miss Janet Haig: porcellanid crabs. |
| Dr. David B. Causey: copepod crustaceans. | Dr. Willard D. Hartman: sponges. |
| Dr. Ralph W. Dexter: fairy shrimps. | Dr. Dora P. Henry: barnacles. |
| Dr. John S. Garth: crabs. | Dr. L. B. Holthuis: decapod and stomatopod crustaceans. |
| Dr. Gordon E. Gates: earthworms. | Dr. Libbie H. Hyman: flatworms. |
| Dr. Robert Given: cumacean crustaceans. | Mr. Wilfred Kings: hydroids. |
| | Mr. Raymond B. Manning: stomatopod crustaceans. |
| | Dr. Marvin C. Meyer: leeches. |

Dr. Donald R. Moore: starfishes.	Mr. Lowell P. Thomas: ophiuroids.
Dr. William A. Newman: barnacles.	Dr. W. Vervoort: hydroids and hydro-
Mr. Harrison Steeves III: isopod crus-	corals.
taceans.	Dr. Marvin L. Wass: hermit crabs.
Dr. Olive S. Tattersall: mysidacean	Dr. Harry C. Yeatman: copepod crus-
crustaceans.	taceans.

Mollusks.—Curator Harald A. Rehder devoted most of his research time to work on the Indo-Pacific marine molluscan fauna, starting with a study of the family Tellinidae of the area. In addition, he completed a number of smaller papers, one on the Pleistocene mollusks of Grand Cayman, and another on the status of the generic name *Nucella*. In October, Dr. Rehder joined a party of scientists who conducted a survey of Jaluit Atoll in the southern Marshall Islands; he spent six days studying the malacological collections in the Bernice P. Bishop Museum in Honolulu and ten days, from October 20 to 29, on Jaluit, collecting a representation of the marine molluscan fauna and studying the ecology of the reefs.

In connection with the Museum's program of study of Pacific marine animals, Dr. Joseph Rosewater, under the direction of Dr. Rehder, has completed a monograph of the family Pinnidae and has initiated studies on the families Tridacnidae and Littorinidae.

Associate curator Joseph P. E. Morrison continued his studies of the family Melampidae and of certain brackish water genera of the Mactridae. He also presented, at the meetings of the American Malacological Union, in Montreal, a paper on the bivalved gastropods of the family Juliidae.

Research by visiting investigators.—Among visiting scientists who studied the research collections of mammals during the year were:

W. Herbert L. Alsopp, British Guiana Department of Agriculture; Sydney Anderson and Joseph C. Moore, American Museum of Natural History; Rollin H. Baker, Michigan State University; John E. Frisch, University of Chicago; Carl L. Hubbs, Scripps Institution of Oceanography, University of California; Hans E. Kaiser, University of Tübingen, Germany; E. V. Komarek, Thomasville, Georgia; Karl F. Koopman, Chicago Natural History Museum; Philip Krutzsch, University of Pittsburgh; Kenneth I. Lange and Howard Uible, Washington, D.C.; Thomas H. Manning, Canadian Wildlife Service; Eustorgio Mendez, Gorgas Memorial Laboratory, Panama; Mrs. Bahtire Mursaloglu, University of Ankara, Turkey; Howard J. Stains, Southern Illinois University; William L. Straus, Johns Hopkins University; and Richard W. Thorington, Jr., Harvard University.

Among those who worked in the division of birds were:

Robert W. Dickerman, University of Minnesota; Ricardo Novatti, Argentine Antarctic Institute, Buenos Aires; Harry C. Oberholser, Cleveland, Ohio; Allan R. Phillips, Globe, Ariz.; Max C. Thompson, Udall, Kans.; and Francis S. L. Williamson, Anchorage, Alaska.

Specialists working in the division of reptiles and amphibians included:

Joseph R. Bailey, Duke University; R. Edgren, Philadelphia, Pa.; Carl Gans, University of Buffalo; Coleman J. Goin, University of Florida; Richard Highton, University of Maryland; W. Gardner Lynn, Catholic University of America; Albert Schwartz, Albright College; and E. H. Taylor, University of Kansas.

Among ichthyologists who studied material in the division of fishes were:

Elbert H. Ahlstrum, Frederick H. Berry, and W. W. Anderson, U.S. Fish and Wildlife Service; Joseph R. Bailey, Duke University; E. Bertelsen, Copenhagen, Denmark; Rolf Bolin, Hopkins Marine Station, Stanford University; David C. Caldwell and Mrs. Caldwell, Los Angeles County Museum; C. E. Dawson, Gulf Coast Research Laboratory; Robert W. Harrington, Vero Beach, Fla.; Carl L. Hubbs and Mrs. Hubbs, Scripps Institution of Oceanography, University of California; L. Krefft, Institute of Seafisheries, Germany; William Massmann, Virginia Fisheries Laboratory; Robert R. Miller, University of Michigan; Theodore Monod and Emile Postel, Muséum National d'Histoire Naturelle, Paris; Yaichiro Okada, Prefectural University of Mie, Japan; John E. Randall, Marine Laboratory, University of Miami; Robert D. Ross, Virginia Polytechnic Institute; Frank Schwartz, Maryland Department of Research and Education; Donald C. Scott, University of Georgia; Gerald Smith and T. Uyeno, University of Michigan; John Stephens, Occidental College, Los Angeles; Royal D. Suttkus, Tulane University; V. D. Vladykov, University of Ottawa, Canada; Norman Wilimovsky, University of British Columbia; and Ralph W. Yerger, Florida State University.

Among entomologists who worked in the collection of insects were:

Dr. Daley de O. Albuquerque and Mrs. Isolda Rocha e Silva Albuquerque, Museu Nacional, Rio de Janeiro, Brazil; Edward C. Becker, W. J. Brown, H. F. Howden, L. A. Kelton, W. H. M. Mason, and Eugene Munroe, Department of Agriculture, Ottawa, Canada; Gordon F. Bennett, Ontario Research Foundation, Toronto, Canada; Thomas Borgmeier, Jocarepagua, Brazil; George Burton, WHO, British Guiana; James O. Harrison, Palomar Research Station, Palomar, Costa Rica; Claude Herbulot, Paris, France; W. R. Hynd, Farnham, Surrey, England; Gerhard Knerer, University of Toronto, Toronto, Canada; Paul Murphy, University of Nottingham, England; Karlis A. Princis, Zoological Institute, University of Lund, Sweden; W. R. Thompson and Mrs. Thompson, Commonwealth Institute of Biological Control, Ottawa, Canada; H. R. Wong, Forestry Laboratory, Winnipeg, Manitoba, Canada; and Ing. Fernando de Zayas and Mrs. de Zayas, Agricultural Experiment Station, Havana, Cuba.

Some of those who worked in the division of marine invertebrates were:

Máximo Cerame-Vinos, D. C. Miller, and Joanne O'Connell, Duke University; Elizabeth Deichmann, Museum of Comparative Zoology, Harvard University; Thomas Goreau, University College of the West Indies, Mona, Jamaica; Dieter Hantschmann and George Hechtel, Yale University; C. W. Hart, Academy of Natural Sciences of Philadelphia; John R. Holsinger, Harrisonburg, Va.; Paul L. Illg, University of Washington; Edwin A. Joyce, Jr., University of Florida; Karl Lang, Naturhistoriska Riksmuseet, Stockholm, Sweden; Alan C. Lewis,



University of Hawaii; Marian H. Pettibone, University of New Hampshire; David Raup, Johns Hopkins University; Tune Sakai, Yokohama National University, Kamakura, Japan; Raymond B. Manning, Lowell P. Thomas, and Gilbert L. Voss, Marine Laboratory, University of Miami; C. W. Thomas and John R. Thompson, U.S. Fish and Wildlife Service; David Tranter, Commonwealth Scientific and Industrial Research Organization, Cronulla, New South Wales, Australia; Stephen A. Wainwright, University of California; G. P. Wells, University College of London, England; Harry Wells and Mrs. Wells, Cape Hatteras Marine Laboratory; Austin B. Williams, Institute of Fisheries Research, University of North Carolina; and Fred C. Ziesenhenné, Allan Hancock Foundation, University of Southern California.

The collections of mollusks were consulted by the following:

Sheldon C. Bergman, U.S. Geological Survey; John B. Burch, Museum of Zoology, University of Michigan; Ian McTaggart Cowan, University of British Columbia; Jules R. DuBar, University of Houston; Willis G. Hewatt, Texas Christian University; Alan J. Kohn, Florida State University; Fred W. Sieling, Maryland Department of Research and Education; Myra L. Smith, University of Queensland; G. Alan Solem, Chicago Natural History Museum; Ruth D. Turner, Museum of Comparative Zoology, Harvard University; and Stephen A. Wainwright, University of California.

Botany

Head curator Jason R. Swallen arranged for a reprinting, by the Smithsonian Institution, of Standley's "Trees and Shrubs of Mexico," a standard work which has been out of print for more than a quarter century.

Phanerogams.—Curator Lyman B. Smith prepared a paper on plant migrations as a part of his studies of the phytogeography of southern Brazil. He continued the study of his collections from Santa Catarina along with further large collections from Padre Raulino Reitz, director of the Herbário Barbosa Rodrigues. Dr. Smith constructed keys for his monograph of the Bromeliaceae, covering about two-thirds of the more than 1,800 species. He prepared a treatment of the Bromeliaceae of the Guayana Highland, and, with Dr. Bassett Maguire of the New York Botanical Garden, a similar treatment of the Xyridaceae.

Associate curator E. C. Leonard continued the preparation of a Flora of Hispaniola, correcting the locality data for the Dominican Republic collections in line with numerous recent changes in the delimitations of the provinces. He also completed an index to all the grasses of Hispaniola. Mr. Leonard has resumed work on the Acanthaceae of Peru for the Chicago Natural History Museum, completing the revision of the genus *Mendoncia*.

Associate curator Velva E. Rudd nearly completed her revision of American *Ormosia* and expects to have it ready for publication soon. She continued assembling data for a floristic treatment of the papilio-

nate legumes of Mexico. Dr. Rudd attended the "Primer Congreso Mexicano de Botánica," where she presented a paper on the Mexican species of *Ormosia*. She also participated in the excursion of the Congress, making a brief reconnaissance survey of the vegetation along a coast to coast transect.

Associate curator Richard S. Cowan continued his monographic studies of the genus *Swartzia*, completing a key to all species and descriptions for nearly all. He completed and published his studies of the Leguminosae collected in the Guayana Highland by Dr. Bassett Maguire and others, and finished a short paper on miscellaneous novelties in the Leguminosae.

Associate curator John J. Wurdack completed a detailed treatment of the Melastomataceae of Santa Catarina, Brazil, including 13 genera and 116 species. He continued his studies of the Melastomataceae of the Guayana Highland with the aim of publishing a complete treatment, and prepared descriptions of miscellaneous novelties in the same family from other parts of tropical America.

Dr. A. C. Smith, Director of the Museum of Natural History, resumed his work on southwestern Pacific plants by revising, in collaboration with research assistant Benjamin C. Stone, the genus *Genios-toma* (Loganiaceae) in that area. Progress was also made on the families Araliaceae and Guttiferae, and Dr. Stone conducted independent work on Pandanaceae, Rutaceae, and other groups.

Dr. José Cuatrecasas, research associate, continued his studies on the flora of Colombia. He completed a monograph of the genus *Theobroma* (cacao) and continued the preparation of a revision of Colombian Compositae consisting of approximately 800 species.

Dr. Kittie F. Parker, honorary research associate, furthered her studies of western and Mexican Compositae.

Grasses.—Head curator Jason R. Swallen continued his studies of the grasses of southern Brazil. He also prepared a key to the genera of grasses of Mexico, to be included in a book on Mexican grasses, at the request of Dr. Efraím Hernández. Two other short papers describing new species and several book reviews were written on request.

Dr. Thomas R. Soderstrom, assistant curator, prepared a treatment of the species of *Muhlenbergia* at one time referred to the genus *Epicampes*.

Mrs. Agnes Chase, honorary research associate, continued her work on the comprehensive catalogue of grass genera and species.

Dr. F. A. McClure, honorary research associate, advanced his studies on the bamboos. He completed the manuscript cards of the genera of the Bambusoideae for the "Index Nominum Genericorum," and furthered his treatment of the bamboo genera of the world for the

new edition of "Die Natürlichen Pflanzenfamilien." He prepared an article on "Bamboo" published in the *Encyclopaedia Britannica* and another entitled "Toward a fuller description of the Bambusoideae" to be published in the *Kew Bulletin*.

Ferns.—Curator Conrad V. Morton continued with the study of the ferns of tropical America, particularly with the genera *Blechnum*, *Gleichenia*, and *Dicranopteris*, for which revisions of the Andean species are well under way. During the summer of 1960 he spent two weeks in study in Europe, at the Muséum National d'Histoire Naturelle, Paris, the British Museum (Natural History), and the Royal Botanic Gardens, Kew, England, where a number of type specimens and other interesting material were studied. During these visits he also examined material of some phanerogamic genera, notably *Solanum* and *Columnea*.

Cryptogams.—Dr. Mason E. Hale, associate curator in charge, continued work on a monographic revision of the lichen genus *Parmelia* in the Western Hemisphere. The collections that he made in Mexico were chemically tested and identified, and large miscellaneous collections from various herbaria were studied. Michael Wirth, a former graduate student at Harvard University, was engaged for ten months as a research assistant and carried out much of the routine work. Dr. Hale's "Lichen Handbook," was published by the Smithsonian Institution as a companion work to Agnes Chase's "Handbook of Grasses," which the Institution recently reprinted.

Associate curator Paul Conger carried forward work on research projects in progress, including a study of the diatoms of Chincoteague Bay, a revision of the genus *Grammatophora*, and an analysis of diatom samples of the British, Australian, and New Zealand Antarctic Expedition.

Assistant curator Robert Ireland continued work on a long term project of writing a moss flora for Virginia. He also studied the moss collections made by Dr. Hale in Mexico, and started a detailed study of several species of the moss genus *Atrichum*.

Woods.—Curator William L. Stern made a brief anatomical survey of the woods of *Theobroma*, the genus to which cacao belongs, in conjunction with a taxonomic study of the genus by Dr. José Cuatrecasas. Much of his time was taken up in the organization and curatorial work of the newly created division. For the purposes of examining facilities, observing collections, and arranging for exchanges, he visited various similar laboratories.

Research by visiting investigators.—Dr. Oscar Tovar, of the University of San Marcos, Lima, Peru, completed his work on the grasses of the Central Andes and returned to Peru early in December. Tuguo Tateoka, National Institute of Genetics, Misima, Japan, spent

several days at the herbarium examining specimens of critical genera of grasses. Mrs. E. R. Faithorn, Annapolis, Md., spent a day each week through the year studying diatoms.

More than 1,000 visitors made use of the National Herbarium and its facilities to advance their research projects or to gather information on a variety of subjects. Among them were:

Clair Brown, Louisiana State University; Carl Epling and Harlan Lewis, University of California, Los Angeles; Lincoln Constance, University of California, Berkeley; George R. Proctor, The Institute of Jamaica; H. E. Moore, Jr., Bailey Hortorium; A. J. Sharp, University of Tennessee; R. K. Godfrey, Florida State University; Richard A. Howard, Dr. and Mrs. Rolla M. Tryon, Jr., Miss Edith Scamman, and Kenneth A. Wilson, Harvard University; C. B. Heiser, Jr., Indiana University; Richard W. Holm, Stanford University; Bassett Maguire and H. W. Rickett, New York Botanical Garden; Edgar T. Wherry, University of Pennsylvania; A. H. Smith, University of Michigan; Vernon Ahmadjian, Clark University; Margaret Green, Candler, N.C.; Grace Howard, University of Washington; K. Mosbach, Lund, Sweden; T. Seshadri, University of New Delhi; A. Conger, University of Florida; J. H. Hankins and Henry Curry, Richmond, Va.; Sherwin Carlquist and Philip A. Munz, Rancho Santa Ana Botanic Garden; Ernst C. Abbe, University of Minnesota; Ken Shimaji, University of Tokyo; Oswald Tippo, University of Colorado; Lester Holdridge, Costa Rica; C. Earle Smith, Chicago Natural History Museum; and B. Francis Kukachka, Forest Products Laboratory.

As in the past, staff members of various Government agencies, especially the Department of the Interior and the Department of Agriculture, made use of the facilities of the National Herbarium in their work.

Geology

Mineralogy and petrology.—Curator George S. Switzer completed his annual review of the diamond industry and continued work on a long-term research project on the sulfate and related minerals. In August a 10-day period was spent collecting in southern Norway, where interesting and valuable series of minerals were obtained for the national collections. During his European visit Dr. Switzer participated in the International Geological Congress and the second general session of the International Mineralogical Association in Copenhagen.

Associate curator Paul E. Desautels continued to work on a mineralized vein at Centreville, Va., and on the lead oxychloride minerals of Laurium, Greece. During the year he made collecting trips to Illinois and New Jersey, and in January he was elected president of the Mineralogical Society of the District of Columbia.

Roy S. Clarke, Jr., chemist in the division, continued work on tektites from Georgia and the single specimen from Martha's Vine-

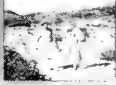
PREPARING FOSSILS. WITH CHEMICALS

In the Glass Mountains of Texas, as in many other places in the world, limestone deposits contain stunted fossils. When placed in weak acid the limestone dissolves readily but the fossils, which are protected by or altered to insoluble silica (a major ingredient of glass), are unaffected. This is an easy means of preparing delicate and elaborate fossils which would be lost by any other method.

Since 1939, Smithsonian scientists have been collecting limestone blocks from the Glass Mountains. About 50 tons of limestone have been dissolved to produce the fossils exhibited here, as well as hosts of others.



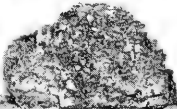
Photomicrograph of fossiliferous limestone. The fossils are small, thin, flattened shells, typical of the Glass Mountains.



SCIENTIST
While the limestone is being treated in chemical solution in large tanks, and submerged in it with hydrochloric acid solution only of moderate strength.



A TREASURE CHEST OF FOSSILS.
Such as found in this hall, showing how to prepare the fossils with weak hydrochloric acid.



TREASURE CHEST
Such as found in this hall, showing how to prepare the fossils with weak hydrochloric acid.

Introducing exhibits in new hall of fossil invertebrates is this explanation of method by which the scientist dissolves away the limestone in which the fossils are imbedded, using a weak solution of hydrochloric acid that leaves fossils separated and unharmed. Below: Alcove in new hall, showing extinct giant shell-bearing invertebrates.





Nine large dioramas such as these reconstruct ancient sea-bottom habitats. The plants and animals are modeled from fossils. Below: Permian sea bottom of 200 million years ago. Fossil originals of the plant-like animals were dissolved out of limestone from the Glass Mountains of West Texas by process illustrated on opposite page.



yard, Mass. These studies, the results of which will shortly be published, point to a remarkable similarity in properties of tektite specimens from widely separated localities, and give new descriptive data. A completely satisfactory interpretation of these data has not been possible, and related studies are in progress. In addition, Mr. Clarke continued work on a long-range study of the solubility of calcium borate minerals.

The research of associate curator E. P. Henderson continued to be centered on meteorites and tektites. The acceleration of accessions in these areas during the year greatly improves the national collections as a source of future research material.

Invertebrate paleontology and paleobotany.—During the year substantial progress was made by most members of the division. Head curator G. A. Cooper, accompanied by museum aide Henry B. Roberts and Dr. Druid Wilson, of the U.S. Geological Survey, spent two days at Hampton, Va., searching for Miocene invertebrate fossils with Mr. George Webb, a local collector who guided the party. A large collection of exceptionally fine mollusks, some new to the national collection, was obtained.

Dr. Cooper and research assistant Richard E. Grant have made excellent progress on their Glass Mountains brachiopod studies. To date they have described 459 species belonging to 109 genera, of which 32 genera are new. The manuscript now totals 2336 pages. At the close of the fiscal year Dr. Cooper and Dr. Grant were conducting field work in New Mexico, Texas, and adjacent States, collecting invertebrate fossils and studying Pennsylvanian and Permian strata in the Glass, Chinati, and Guadalupe Mts. Dr. Cooper was elected president of the Geological Society of Washington in December.

Dr. Richard S. Boardman, associate curator in charge of the division, continued work on the revision of the genera of Paleozoic trepostomatous bryozoans. Study photographs, revised generic concepts, and sorting of thin sections have been completed for 14 genera and the included species. Dr. Boardman spent July, August, and part of September collecting lower Paleozoic fossils in Sweden. The collections made will provide the Museum with good reference collections to compare with American faunas. He also took advantage of this European trip to attend the International Geological Congress in Copenhagen.

Associate curator Porter M. Kier has completed his monograph on the cassiduloid echinoids. In June 1960 he visited Europe to study specimens in museums in Paris, Geneva, Basel, Liège, London, and Cambridge. He photographed many type specimens, which will be published in the monograph. This restudy of type specimens has shown that many of the species have been inaccurately described and has revealed several evolutionary trends, thus resulting in a new and

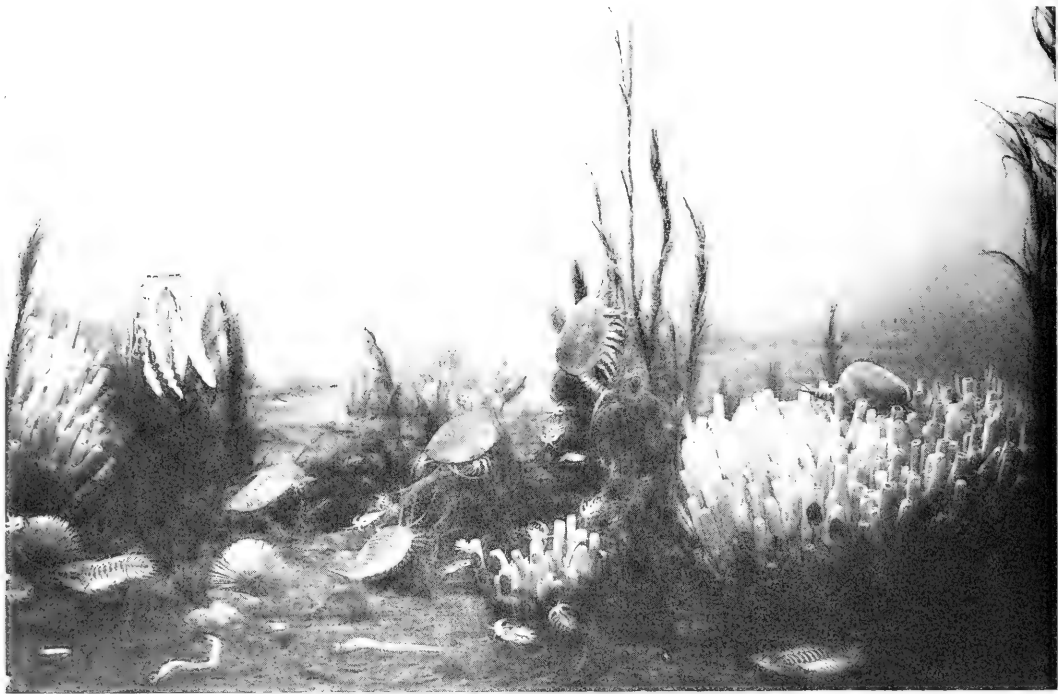
more natural classification. In addition to other projects, Dr. Kier is working on the redescription of the Paleozoic echinoids from Belgium. These echinoids were described in 1929 by R. T. Jackson. However, the specimens were not completely cleaned and many important features were therefore not described. As this fauna of Paleozoic echinoids is the largest in the world, 25 species, its redescription should prove of interest. All specimens have been cleaned, photographed, and described, and the manuscript is approaching completion.

Dr. Kier joined Dr. Druid Wilson, of the U.S. Geological Survey, on a collecting trip in Alabama and Georgia in April. Many Paleocene and Eocene echinoids were collected, including one large slab, covered with many sand dollars, now exhibited in the new hall of fossils.

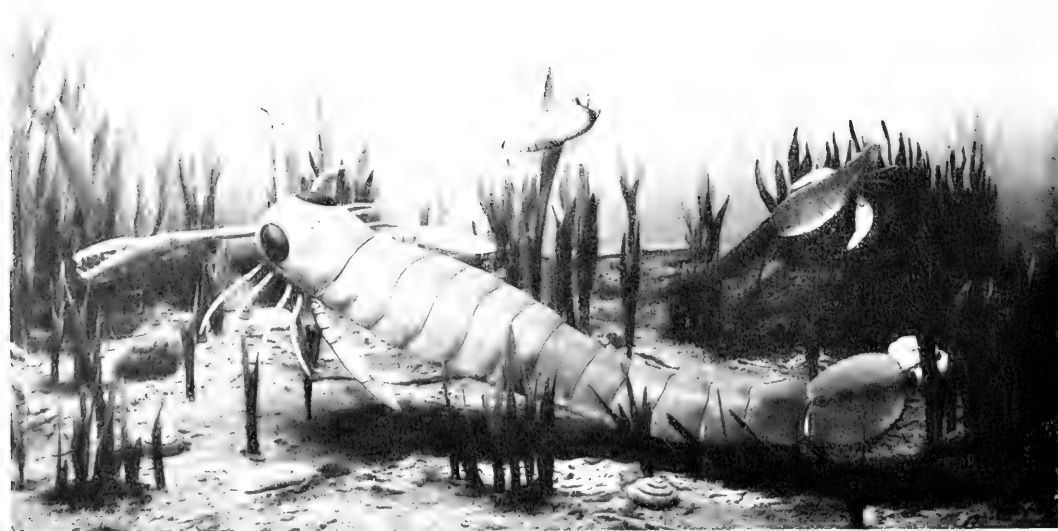
Associate curator Richard Cifelli accompanied Dr. Ralph Imlay, of the U.S. Geological Survey, to the western interior of the country and collected Foraminifera from the key Jurassic sections. In August, November, January, and May, Dr. Cifelli made collections of pelagic Foraminifera from plankton hauls between Woods Hole and Bermuda. This is a project conducted in cooperation with the Woods Hole Oceanographic Institution, to study the seasonal variation of pelagic Foraminifera. In April and May, Dr. Cifelli was aboard the Woods Hole research vessel *Chain* on a cruise to the eastern equatorial Atlantic. Scientists on the ship made plankton hauls between Bermuda and the equator, took five bottom cores, and collected several bottom samples. These are very important collections because they come from a remote, not easily accessible part of the world. The Foraminifera from these collections will be studied in cooperation with Woods Hole.

Dr. Cifelli is preparing for publication a study of the morphology and internal structure of *Streblus beccarii* (Linné). This is a key species in the classification of a large group of Foraminifera and its internal structure has been misinterpreted, affecting the classification of the group. The sampling program for the seasonal variation study of pelagic Foraminifera was completed this year, all material has been examined, and preliminary identifications of species have been made.

Dr. Erle G. Kauffman, associate curator, completed a major study of Mesozoic paleontology, stratigraphy, and paleoecology in south-central Colorado, started before he joined the Museum. He plans to publish the work in sections in the *Journal of Paleontology* and the *Bulletin of the American Association of Petroleum Geologists*. Dr. Kauffman has also initiated a broad program of study on the pelecypod genus *Inoceramus* in North America, primarily concerned with the formation of a working species concept, redefinition of the existing species, description of new forms, and biostratigraphic zonation.



Reconstruction of Cambrian black-mud sea bottom of 500 million years ago. Plants and animals of this period were first recognized and described by Charles D. Walcott, fourth Secretary of Smithsonian Institution. Below: Eurypterid, or sea scorpion, about 3 feet long, from the brackish Silurian sea that covered the Buffalo, N.Y., area about 320 million years ago.





Cephalopods, brachiopods, trilobites, and other animals in a coral-reef habitat in the Silurian sea near the Rochester, N.Y., area 350 million years ago. Below: Devonian sea bottom 250 million years ago. The flower-like clusters are coral polyps.



In July and August, Dr. Kauffman accompanied a party from the University of Michigan on a paleontological expedition to the coal fields of central Alaska and the Kenai Peninsula. Large collections of fossil plants were made, but vertebrate and invertebrate fossils were not discovered in the lower Tertiary sediments examined. During the fall, many of the classical Maryland Upper Cretaceous localities were revisited and extensive invertebrate faunas collected. This is part of a restudy of the Maryland Cretaceous stratigraphy and invertebrate paleontology now under way by several workers.

Museum aide Henry B. Roberts completed a manuscript on the fossil and Recent decapod crustaceans from Marshall Island bore holes, to be published by the U.S. Geological Survey. He is also working on a new species of decapod crustacean of the genus *Retrocypoda* that is the first record of the genus in the United States.

Dr. C. Wythe Cooke, honorary research associate, is continuing his studies on the Mesozoic and Tertiary Echinoidea, and R. S. Bassler, honorary research associate, is continuing his study of leperditid ostracods. Dr. Allison R. Palmer, of the U.S. Geological Survey, was attached to the department for a month while visiting museums and universities in Australia; he brought back beautifully prepared casts of important Cambrian trilobites which will make a valuable addition to the Museum's trilobite collection.

Vertebrate paleontology.—Curator C. Lewis Gazin has advanced his investigation of the lower Eocene mammalian faunas of the Knight formation, having completed study of all but one of the thirteen orders of mammals then extant. Only the Perissodactyla, a relatively large and diversified group as early as Eocene time, remains to be reviewed. A part of this study concerned with sciuravid rodents was abstracted and submitted for publication separately in order to place on record more promptly certain new genera and species. The Knight investigation is supplemental to a report published in 1952 and is based on later, more extensive collections from a variety of localities representing successive horizons in the lower Eocene of Wyoming.

Dr. Gazin completed a report on the occurrences of Paleocene Mammalia in various Tertiary basins of deposition in Wyoming for the guidebook of the 1961 field conference of the Wyoming Geological Association. In this were discussed the history of exploration and research, the results of faunal studies, and the evidence on which correlations have been made between basins and with regions outside the State.

In connection with his general study of early Tertiary mammals, Dr. Gazin spent the early part of this year and the latter part of the preceding year reviewing and studying collections in the principal natural history museums of Europe. This included in particular

detailed examination of upper Paleocene mammals from Cernay, France, in the Muséum National d'Histoire Naturelle, Paris, and various lower Eocene to Oligocene collections in museums at Lyon, Basel, Stuttgart, Frankfurt, Vienna, Brussels, and London, as well as Paris.

While in Europe Dr. Gazin attended, as the delegate for the Smithsonian Institution and for the Society of Vertebrate Paleontology, the meetings of the International Geological Congress held in Copenhagen in August. He also participated in an international symposium on early mammals held at the Institut Royal des Sciences Naturelles, Brussels, and later attended the 8th symposium on vertebrate paleontology and comparative anatomy held at Oxford University.

Associate curator David H. Dunkle interrupted his studies of Mesozoic origins of living orders of ray-finned fishes early this year in order to accept a two-year appointment with the U.S. Geological Survey, to participate in a training program in Pakistan, involving the teaching of modern research and laboratory methods in paleontology in connection with a State Department project.

Associate curator Nicholas Hotton III has continued his study of Permian reptiles. He investigated the occurrence of a large Miocene baleen whale near Hampton, Va., reported to the Museum by George Webb of that city, in September. Accompanied by Dr. Frank C. Whitmore, Jr., of the U.S. Geological Survey, and Kurt F. Hauschildt, of the laboratory of vertebrate paleontology, he spent a week in the excavation of this whale, unusual for so early a stage in the Tertiary. Also, in the company of William E. Moran, formerly of our laboratory of vertebrate paleontology, he investigated localities for Mississippian tetrapods in the vicinity of Greer, W. Va., where Mr. Moran had earlier located remains of a labyrinthodont amphibian; and at Fairchance, Pa., at the Greer limestone quarry they were successful in finding remarkably good material of an embolomorous amphibian.

In February, Dr. Hotton left for South Africa for an extended collecting season in the famous Karroo beds. In this work he was furnished every accommodation by Dr. A. S. Brink, of the Bernard Price Institute for Paleontological Research at the University of Witwatersrand in Johannesburg, and was helped immeasurably in the field by the Institute's field officer, J. W. Kitching, whose knowledge of the Karroo region is second to none. Considerable success was achieved in securing many skulls and other skeletal portions of a variety of Permian and Triassic vertebrate forms, none of which were previously represented in the collections of the Museum. This work is continuing at the close of the fiscal year.

Research by visiting investigators.—Among those who worked in the division of mineralogy and petrology during the year were:

Paul D. Lowman, Jr., National Aeronautics and Space Administration; John D. Gassaway, George Washington University; Alvin J. Cohen, Mellon Institute; E. C. T. Chao, U.S. Geological Survey.

Several foreign and American visitors have been working on invertebrate fossil materials:

A. K. Miller, W. M. Furnish, and Richard Moyle, University of Iowa; R. C. Moore, University of Kansas; Norman D. Newell, American Museum of Natural History; Roger Batten, University of Wisconsin; Harry B. Whittington, Museum of Comparative Zoology; June R. P. Ross, Yale University; and Martin J. Rudwick, Cambridge University.

Among those who used the collections in vertebrate paleontology were:

Craig C. Black, Carnegie Museum; Mary R. Dawson, Smith College; Coleman J. Goin, University of Florida; George E. Jakway, University of Nebraska; Hans Kaiser and Mrs. Kaiser, Hanover, West Germany; Ernest L. Lundelius, Jr., University of Texas; Robert Miller and Teruyo Uyene, University of Michigan; Bryan Patterson and A. S. Romer, Museum of Comparative Zoology; John McIntosh, Leonard Radinsky, Elwyn Simons, and Jeff Smith, Yale University; H. P. Roebing, Columbia University; Horace J. Swain, University of Delaware; G. T. MacIntyre, Malcolm C. McKenna, and Bobb Schaeffer, American Museum of Natural History; Paul Y. Sondaar, Loenen, a.d. Vecht, Holland; Howard J. Stains, Southern Illinois University; and Albert E. Wood, Amherst College.

Museum of History and Technology

Science and Technology

Physical sciences.—In the field of physical sciences, Dr. Robert P. Multhauf, head curator of the department, continued his research on the history of early chemistry. He read proof on his paper dealing with self-registering meteorological instruments.

Mechanical and civil engineering.—Curator Eugene S. Ferguson has completed the editing and annotating of the book-length early engineering reminiscences of George Escol Sellers. This first-person narrative, which covers the years 1815–1840, will provide scholars with important source material for the history of early mechanical and civil engineering practice in the United States and England. The detailed descriptions of machines and processes are unique, and insights into the character and behavior of some outstanding early mechanics are often sharp and fresh. Mr. Ferguson has also made satisfactory progress with his bibliography for the history of technology (with emphasis upon mechanical engineering), which is in-

tended to complement the existing bibliographies in allied fields, such as the history of science. His paper "John Ericsson and the Age of Caloric" was published by the Museum.

Associate curator Edwin A. Battison, in documenting a unique 15th-century thread-cutting device in the collections, has made important progress on his paper dealing with thread-cutting lathes without gears, since 1480.

Robert M. Vogel, associate curator, substantially completed a study of the 19th-century civil engineer and bridge builder, Wendell Bollman, who introduced the first iron bridge trussing system that was used consistently on an American railroad. His study of the elevator systems of the Eiffel Tower was published.

Transportation.—Much research work is being done in the division of transportation to prepare plans for new exhibit models. The requirements of exhibits have necessitated an extensive research program and this will continue until the gaps are filled in the collection.

Curator Howard I. Chapelle completed work on his new catalog of the watercraft collection, which was published by the Museum in November. His paper on the steamship *Savannah* is now in the hands of the printer. Editorial work continues on his manuscript of the bark canoes of North America, and his manuscript on Arctic skin boats has been accepted for publication by the Museum.

John H. White, Jr., associate curator, has completed research on the Cincinnati locomotive builders and the first draft is about 85 per cent complete. His paper on the introduction of the locomotive safety truck was in press.

Electricity.—In the division of electricity long-range research includes expansion of the data and biographical files, preparation of bibliographies, accumulation of documentary material in the history of electricity, additions to the collection of electrical patents and photographs, and consolidation of the Clark collection on the history of the radio.

Curator W. James King's doctoral dissertation, on the history of 17th-century science, has been accepted by the Graduate School of Cornell University. Two of his papers on 19th-century electrical technology were in press.

Medical sciences.—During the year, curator John B. Blake continued his research on the history of public health in the United States, 1900–1950. He has uncovered and published, with comments, a description of the first hypodermic syringe. He has prepared brief biographies of Lydia Folger Fowler and Mary Gove Nichols for *Notable American Women, 1607–1950*, a biographical dictionary being prepared under the sponsorship of Radcliffe College, and he is preparing a longer biographical article on Mrs. Gove Nichols.

Associate curator Sami K. Hamarneh examined several Arabic manuscripts related to pharmacy and medicine during his trips to New Haven, Conn., Philadelphia, Pa., and Cambridge, Mass. He also advanced his research on chemical therapy and the rise of pharmacy and hospitals in Islam. He read proof on his study of al-Zahrāwī's 10th-century surgical treatise.

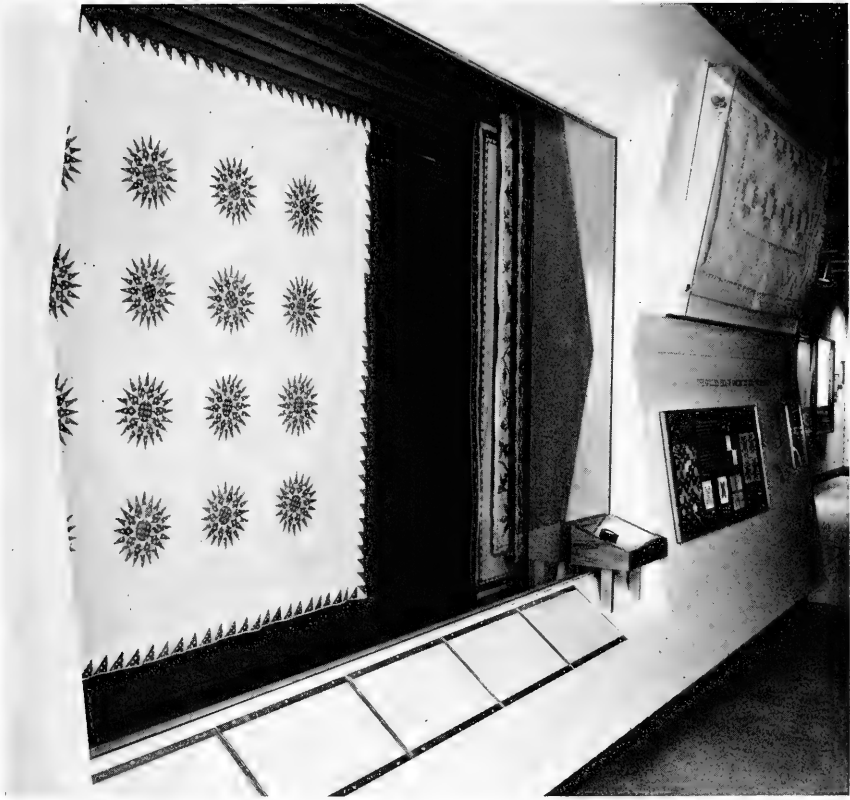
Research by outside investigators.—Frances Gudemann and others representing the U.S. Science Exhibit, Century 21 Exhibition (Seattle), consulted Dr. Multhauf concerning the exhibition of physical sciences. Lew Suverkrop, of Bakersfield, Calif., made a study of the Ramsden dividing engine and screw cutting lathe in connection with a research project in the history of the dividing engine. Siegfried Graebner consulted the collections on several occasions in connection with his work in preparing a classroom text of the history of surveying. Dr. Hugh Hicks, of Baltimore, Md., visited the division of electricity several times to study the collection of incandescent lamps.

A number of visitors requested technical information in all fields of transportation.

Arts and Manufactures

Textiles.—Grace L. Rogers, associate curator in charge, continued her investigation of the samplers in the museum collection in preparation for a history and catalog. In answer to a request from the Society for the History of Technology, Miss Rogers wrote an extensive review of the textile portions of the five-volume work by Charles Singer and others, "A History of Technology." Her paper "Textiles and Textile Machines" was published in the fall, 1960, issue of *Technology and Culture*. In December Miss Rogers examined over three hundred old sewing machines at the Singer Manufacturing Company's Elizabethport factory. These machines, representing products of a great many 19th century companies, were found to have great historical significance. One hundred and forty-two were selected for the museum collection, several being of the earliest manufactured styles and previously unrepresented in our collection. Miss Rogers continued her work as senior adviser for the *Encyclopaedia Britannica*, reviewing twenty textile papers for technical content and writing the section on sewing machines for the 1962 printing.

Museum aide Doris Bowman began a detailed study of 19th-century sewing clamps and related needlework accessories. Information in book form is quite limited. Patent Office records, contemporary periodicals, and related journals are being investigated. The information will be used in cataloging a large collection of such implements recently donated to the textile collections. If the findings are



Third section of textile hall, recently reconditioned, features a quilt exhibit case with selector dial that permits visitor to see 8 quilts in space normally required to display one. This is a sunburst quilt of about 1840.

extensive, the information will be presented for publication in the form of a history and catalog.

Mr. Milton Eisler, physical science technician, continued his textile laboratory work devising techniques and performing practical experiments in the safe removal of soil and stains from all types of natural fiber textiles. Experiments in determining appropriate adhesives for use in mounting fragile textiles also have been initiated.

Ceramics and glass.—Paul V. Gardner, associate curator in charge, continued his research on the collections of ceramics and glass in the Museum. He has started to assemble data for a biography of Frederick Carder, founder of the Steuben Glass Works and outstanding artist in glass.



Hand knitting and netting are explained and compared with machine methods in the newly opened section of the textile hall.

Graphic arts.—Curator Jacob Kainen completed articles for the *Encyclopaedia Britannica*, on Lithography, Gravure, Collotype, Silk Screen Printing, Electrotyping, and Sepia. He also completed for the *Grolier Encyclopedia* articles on Engraving, Drypoint, and Lithography, and wrote a preface to an illustrated booklet, *Irving Amen: Woodcuts*, published by Artists Studio, New York. An illustrated article on John Baptist Jackson was prepared for publication in *The Print Council Annual*. He also read proof on his monograph of Jackson, the English artist who pioneered in color printing from wood blocks in the first half of the 18th century. This study, the first full-length work on the artist, is being published by the Museum. Mr. Kainen continued to work on the Dutch engraver Hendrick Goltzius (1558–1617); his study will examine some phases of Goltzius' style, which had a wide influence.

Mr. Kainen served as juror for an exhibition, "Trends in American Art," at Howard University, and received first prize for his watercolor, *Woman with Bird*, at the 64th Annual National Exhibition of the Washington Water Color Association.

Fuller O. Griffith, associate curator, completed his illustrated catalog of the lithographs of Childe Hassam (1859–1935), which have been



Examples of rugs made by hand and machine are displayed with an explanation of the techniques used in their making.

neglected, although they probably make up his most original work. Mr. Griffith served as juror for two exhibitions of art.

Associate curator Eugene Ostroff, section of photography, in cooperation with Dr. Rudolf Kingslake, director of optical design for the Eastman Kodak Co., restudied the entire collection of photographic lenses. These optics were identified and cross-indexed according to design and manufacture.

Manufactures and heavy industries.—Head curator Philip W. Bishop extended his contribution to *Histoire Générale des Techniques* and continued his research on the history of manufacturing techniques. He also began a study of the influence of Andrew Ure (1778–1857) on American technology. During the summer he visited the Science Museum in London, the Conservatoire des Arts et Métiers, in Paris, and the Deutsches Museum, in Munich, and consulted with their officials.

Dr. Charles O. Houston, Jr., associate curator, continued his work on a chronology of innovation in the coal industry.

Agriculture and forest products.—In September Edward C. Kendall, associate curator in charge, visited the Western Development Museum in Saskatoon, Saskatchewan, Canada, to study an extensive collection of farm steam engines and tractors dating from the 1880's to the recent past. Mr. Kendall also visited Seattle and the central part of Washington to inspect the kind of agriculture and lumbering carried on in the Northwest. At the Daniel Parrish Witter Agricultural Museum on the State Fair Grounds at Syracuse, N.Y., Mr. Kendall was able to study some interesting and rare pieces of equipment, including an Ames portable farm steam engine built in 1866 and other valuable source material on farm machines manufactured in New York State.

In May Mr. Kendall and Mr. Carl Rishell, consultant to the section of forest products, visited New Orleans while the National Lumber Manufacturers' Association was meeting there. This visit resulted in many offers of cooperation and assistance from individuals and lumber firms in the development of the Forest Products Hall now being planned for the new Museum of History and Technology.

Research by visiting investigators.—Many visitors used the department's collections and were aided in their work by staff members. Included were representatives of the National Geographic Society. Other visitors were:

Mildred Davidson, Art Institute of Chicago; Mrs. George Weems Williams, Maryland Historical Society; Adolphe Cavallo, Boston Museum of Fine Arts; Richard Pennington, Graphic Arts Museum of McGill University, Montreal, Canada; Norman Barbee, Howard University; R. L. Stehle and Aline Fruhauf, Washington, D.C.; Andrei A. Mylnikov and Orest G. Vereiski, of the Soviet Union, sponsored by the Committee on Leaders and Specialists of the American Council on Education; Balakrishna Sarna, Nepal; Francois Mathey, Curator of Decorative Arts, Musée du Louvre, Paris; and Gordon Hendricks, New York City.

Civil History

Head curator Richard H. Howland is currently engaged in two research projects concerned with architectural history: one involves the White House, the other concerns James Renwick's original Smithsonian Institution building.

Peter C. Welsh, associate curator, has completed studies on the value of patent documents to the social historian, on the correlation of popular attitudes and technical progress, and on the lithograph as a cultural document. He is continuing long range research in the United States Patent Office records.

Assistant curator Arlene Krimgold has nearly brought to completion an investigation of the stained glass industry in the United States before 1900 and has completed a study of children's games and their educational value in 19th-century America.

Political history.—Curator Wilcomb E. Washburn has undertaken several studies; one, prepared for delivery at the American Indian Ethnohistoric Conference at Indiana University in November, attempts to define and justify the concept of ethnohistory. Another paper, which analyzes the origin of several seventeenth-century Indian wars, was delivered at the Eleventh Conference on Early American History held at the University of Michigan in March. A third study, of the effects of Bacon's Rebellion on government in England and Virginia, was carried through several editorial stages prior to its scheduled publication in the coming year.

Associate curator Margaret B. Klapthor continued her research on furnishings of the White House and on White House china. She completed an article on china of the Lincoln administration, and her manuscript on presentation silver in the U.S. National Museum is in press.

Assistant curator Anne W. Murray continued her research on costume history and on the Copp collection. She has two articles ready for publication, one in *Antiques* magazine, on the apron, and another for the *Encyclopaedia Britannica* on costume in 17th- and 18th-century America.

Cultural History.—Curator C. Malcolm Watkins spent five weeks in England examining 17th-century earthenwares in numerous English museums and archeological collections, in connection with his long-range study of ceramics found in colonial American sites. This has resulted in the identification and dating of many pottery types exported to the colonies, with consequent new inferences to be drawn with respect to colonial trade. In collaboration with honorary research associate Ivor Noel Hume, he has also worked on a historical archeological study of the career and products of William Rogers, Virginia's principal potter, who worked in Yorktown in the early 18th century. His study of North Devon pottery and its export to America in the 17th century was completed and published.

Associate curator John D. Shortridge has continued his catalog of the musical instrument collection and has completed, with Frank Breckenridge, a paper on the mechanics of the harpsichord jack.

Rodris C. Roth, associate curator, has carried on her studies of domestic furnishings. These have proved useful to historical museums and social historians alike. Her paper on tea service in 18th-century America was published by the Museum. She is bringing to conclusion a paper on American floor coverings and has advanced another on 18th-century fireplace equipment. She has also been working on a study of the American-made furniture displayed at the Centennial Exhibition in Philadelphia in 1876.



Research on White House china, a continuing program in the Museum, has resulted in identification of services used by various First Ladies. The gravy boat, held by associate curator Margaret Brown Klapthor, and the soup plate (right) are from a service ordered by Mrs. Lincoln in 1865.

Assistant curator John N. Pearce is collaborating with the Maryland Archeological Society in the excavation of two late 18th- and early 19th-century stoneware and earthenware pottery sites in Baltimore. His findings will enable him to enlarge upon his unpublished manuscript on the early Baltimore potters and their wares. Another study in progress on the trans-Atlantic culture of late 18th-century America deals with the Plimpton sisters and their French husbands and centers upon an unusual collection of heirlooms in the National Museum from a Massachusetts family of French and New England descent. This study will demonstrate a frequent but little noted French impingement on American culture in the Federal Period. Mr. Pearce has completed articles on a Seymour desk and on New York silver 2-handled paneled bowls, and in collaboration with Professor Robert C. Smith of the University of Pennsylvania, has advanced a paper on the Meeks furniture makers.

Anthony W. Hathaway, junior curator, has in draft a manuscript on patented structural elements of the pianoforte between 1800 and 1875, and has begun another on patented musical notation during the first three-quarters of the 19th century. He is also continuing a study of the structural use of iron in 19th-century St. Louis, as illustrated in the collection of iron architectural material recently transferred to the Smithsonian Institution from the National Park Service.

Ivor Noël Hume, honorary research associate, has excavated a closely dated early 18th-century Virginia plantation site, artifacts from which will be of value to archeologists for purposes of comparative dating as well as being of intrinsic historical interest. He is currently preparing a report on the excavation.

Philately and postal history.—George T. Turner, associate curator in charge, continued his research on early stagecoach mail contracts, and served as Washington representative of the Hobbies Committee of the People-to-People Program.

Frank J. McCall, associate curator, continued research on early Florida postal history and Hawaiian postal history of the early missionary days. He acted as philatelic advisor to the Dead Letter Office and to former Postmaster General Arthur E. Summerfield.

Assistant curator Carl H. Scheele continues his research on United States posts.

Numismatics.—Vladimir Clain-Stefanelli, associate curator in charge, progressed in his work on his dictionary of American engravers and medallists and the corpus of his work on ancient Greek coins of northern Greece. A preliminary report concerned with the chronological sequence of posthumous Lysimachus gold staters struck at Kallatis was presented at the Sixty-Second General Meeting of the Archaeological Institute of America. Dr. Clain-Stefanelli frequently functioned as a consultant to the Treasury Department, Bureau of the Mint, in his capacity as special adviser on the numismatic status of modern gold coins and medals.

Mrs. Elvira Clain-Stefanelli, associate curator, completed a study on numismatics which presents the evolution of scientific research in the field of numismatics throughout the ages. A select critical bibliography completes this basic reference book. The modern gold coinages of Germany and the German States, and of South America, were studied and prepared for a special publication to appear as part of a general study on the modern gold coinages of the world issued since 1800. A new project in connection with modern medallic art is concerned with the study of the engravers and medalists who produced the coins and medals of Peter the Great of Russia.

Armed Forces History

Military history.—Curator Edgar M. Howell, in conjunction with Colonel J. Duncan Campbell, completed and submitted for publication a comprehensive, critical and descriptive catalog of American military insignia, 1800–1851. His paper on Herman Steiffel, soldier-artist of the West, was published by the Museum. He prepared an annotated edition of Civil War uniform regulations illustrated with official War Department uniform photographs, which was published by the Smithsonian Institution. He also completed a biographical sketch of Harvey Dunn, the World War I combat artist, for publication by *American Heritage*, and a study “Early Military Insignia and American Design” for *Antiques* magazine.

Mr. Howell, in conjunction with Colonel J. Duncan Campbell, continued archeological investigation of War of 1812 cantonment sites at Sackets Harbor, New York. A number of outstanding recoveries were made and comprehensive plans were completed for continuing investigation. Mr. Howell, again in conjunction with Colonel Campbell, located and excavated Ft. Adams (1799–1810) near Woodville, Miss., with excellent results.

Associate curator Craddock R. Goins, Jr., revised and expanded portions of the script for the new hall of ordnance, and in conjunction with this added considerable data to the catalog he is preparing of the weapons collections. Additional documentation was found and included in a study being prepared by Mr. Goins on the Hall rifle and the weapons and ammunition developed by Edward Maynard.

Museum aide Donald Kloster continued his study on the American usage and changes in the floral motif “Rosemaling” as brought to the United States by Norwegian immigrants.

Museum aide John L. Rawls, long a student of naval and military ordnance, contributed to *The American Rifleman* an article, “Safety with the Rifle-Musket.”

Naval history.—Mendel L. Peterson, head curator of the department, made substantial progress in his study of the marking and decoration of muzzle-loading cannon, completing the collating of dates and photographs gathered during the past six years. He also continued the research associated with the underwater exploration program in the fields of preservation of materials recovered from sea water and identification of shipwreck sites through internal evidence and documents in European archives. On the basis of the investigation of the site of an early 17th century wreck site on the reefs of Bermuda, he prepared two manuscripts on materials found on that site. These are in the hands of editors and will be published this fall.

Continuing his study of the development of United States naval construction, Philip K. Lundeberg, associate curator in charge of the division, began preparation of a catalog of American warship models and half models in the national collections. During the year he studied naval and maritime collections in museums, naval shipyards, and departments of naval architecture at universities on the east and west coasts. Dr. Lundeberg contributed a chapter on the Battle of the Atlantic to "The Great Sea War," a history of naval operations during the Second World War, edited by E. B. Potter and Fleet Admiral Chester W. Nimitz. In addition, he reviewed works on the naval history of World War II in the *American Historical Review* and *Military Affairs*.

Research by visiting investigators.—Assistance was provided to other government and private agencies throughout the year. Among organizations which utilized the collections and resources of the department of armed forces history were: Heraldic Branch, Office of Quartermaster General, Department of the Army; Historical Division and Technical Intelligence Branch, Office of Chief of Ordnance, Department of the Army; Prints Division and General Reference Service, Library of Congress; Civil War and Early Wars Branch, National Archives; Division of Naval History, Department of the the Navy; United States Marine Corps Museum, Department of the Navy; National Geographic Society; and researchers from the Company of Military Collectors and Historians.

Publications

The scientific publications of the United States National Museum continued under the editorship of John S. Lea.

In addition to the Annual Report, the Museum issued publications based on research in the national collections. Of these, 4 whole volumes and 7 papers as parts of 2 additional volumes were in the Bulletin series, 21 publications were in the Proceedings series, and 1 was in the Contributions from the National Herbarium.

At the close of the year, 5 proceedings papers and the following bulletins were in press:

- 82, vol. 1, part 5. A monograph of the existing crinoids, the Comatulids, suborders Oligophreata and Macrophreata, by Austin Hobart Clark and Ailsa McGown Clark.
- 216, part 3. Incheonumon-flies of America north of Mexico: 3. Subfamily Gelinae, Tribe Mesostenini, by Henry and Marjorie Townes.
222. John Baptist Jackson: 18th-century master of the color woodcut, by Jacob Kainen.
224. Robber flies of the world: The genera of the family Asilidae, by Frank M. Hull.
225. Contributions from the Museum of History and Technology: Papers 12-18, by members of the staff and others.
Paper 17. The effect of Bacon's Rebellion on government in England and Virginia, by Wilcomb E. Washburn.
Paper 18. Excavations at Rosewell in Gloucester County, Virginia, 1957-1959, by Ivor Noël Hume.
226. Checklist of the birds of Thailand, by Herbert G. Deignan.
- 227, part 1. Marine Polychæete worms of the New England region: 1. Families Aphroditidae through Trochochaetidae, by Marian H. Pettibone.
228. Contributions from the Museum of History and Technology: Papers 19-30, by members of the staff and others.
Paper 21. The pioneer steamship Savannah: A study for a scale model, by Howard I. Chapelle.
Paper 22. Drawing and pharmacy in al-Zahrāwī's 10th-century surgical treatise, by Sami Hamarneh.
Paper 23. The introduction of self-registering meteorological instruments, by Robert P. Multhauf.
Paper 24. Introduction of the locomotive safety truck, by John H. White.
Paper 25. The migrations of an American boat type, by Howard I. Chapelle.
Paper 26. Holcomb, Fitz, and Peate: Three 19th-century American telescope-makers, with introduction by Robert P. Multhauf.
Paper 27. Kinematics of mechanisms from the time of Watt, by Eugene S. Ferguson.
Paper 28. Electrical technology in the 19th Century: 1. The electrochemical cell and the electromagnet, by W. James King.

- Paper 29. Electrical technology in the 19th century: 2. The telegraph and the telephone, by W. James King.
229. Contributions from the Museum of History and Technology, Papers 31-34. Paper 33. Italian coin engravers since 1800, by Elvira Clain-Stefanelli.
230. Contributions from the Museum of History and Technology, Papers 35-36. Paper 35. The bark canoes of North America by Edwin Tappan Adney and Howard I. Chapelle.
231. Contributions from the Museum of History and Technology, Papers 37—. Paper—Presentation silver in the U.S. National Museum, by Margaret Klaphthor.

Publications by the staff, including honorary members, totaled 182. These, listed on pages 105 to 115, were distributed as follows:

<i>Department</i>	<i>Publi- cations</i>	<i>Department</i>	<i>Publi- cations</i>
Anthropology	22	Civil History	11
Botany	36	Arts and Manufactures	4
Geology	13	Armed Forces History	4
Zoology	77		
Science and Technology	15	Total	182

Publications of the United States National Museum

July 1960 through June 1961

REPORT

The United States National Museum annual report for the year ended June 30, 1960. Pp. vi+175, illustr., January 13, 1961.

BULLETINS

219. The national watercraft collection, by Howard I. Chapelle. Pp. xi+327, 204 figs., November 23, 1960.
220. Type specimens of reptiles and amphibians in the U.S. National Museum, by Doris M. Cochran. Pp. xv+291, April 4, 1961.
221. Type specimens of birds in the United States National Museum, by Herbert G. Deignan. Pp. x+718, March 17, 1961.
223. The parasitic weaverbirds, by Herbert Friedmann. Pp. viii+196, 3 figs., 16 pls. (4 color), December 30, 1960.
225. Contributions from the Museum of History and Technology: Papers 12-18, by members of the staff and others.
- Paper 12. Hermann Stieffel, soldier-artist of the West, by Edgar M. Howell. Pp. 1-16, 11 figs., July 8, 1960.
- Paper 13. North Devon pottery and its export to America in the 17th century, by C. Malcolm Watkins. Pp. 17-60, 36 figs. (1 color), December 30, 1960.
- Paper 14. Tea drinking in 18th-century America: Its etiquette and equipment, by Rodris Roth. Pp. 61-91, 22 figs., 1 color pl., January 30, 1961.
- Paper 15. Italian harpsichord-building in the 16th and 17th centuries, by John D. Shortridge. Pp. 93-107, 12 figs., December 15, 1960.
- Paper 16. Drug supplies in the American Revolution, by George B. Griffenhagen. Pp. 109-133, 4 figs., March 9, 1961.

228. Contributions from the Museum of History and Technology: Papers 19-30, by members of the staff and others.
 Paper 19. Elevator systems of the Eiffel Tower, 1889, by Robert M. Vogel. Pp. 1-40, 41 figs., February 21, 1961.
 Paper 20. John Ericsson and the age of caloric, by Eugene S. Ferguson. Pp. 41-60, 11 figs., January 25, 1961.

CONTRIBUTIONS FROM THE NATIONAL HERBARIUM

FROM VOLUME 35

- Part 2. A taxonomic revision of the Humiriaceae, by José Cuatrecasas. Pp. iii+25-214, 38 figs., 24 pls., April 14, 1961.

PROCEEDINGS

FROM VOLUME 110

- Title page, table of contents, and index. Pp. i-iii, 599-619, August 19, 1960.

FROM VOLUME 111

- Title page, table of contents, and index. Pp. i-iv, 681-692, March 15, 1961.
 No. 3429. A revision of the genus *Ogcodes* Latreille with particular reference to species of the Western Hemisphere, by Evert I. Schlinger. Pp. 227-336, 9 figs., 13 pls. (112 pl.-figs.), September 9, 1960.
 No. 3430. Cydnidae of the Western Hemisphere, by Richard C. Froeschner. Pp. 337-680, 13 pls. (300 pl.-figs.), October 25, 1960.

FROM VOLUME 112

- No. 3431. Lace-bug genera of the World (Hemiptera: Tingidae), by Carl J. Drake and Florence A. Ruhoff. Pp. 1-105, 5 figs., 9 pls., July 7, 1960.
 No. 3436. Revision of the milliped genus *Cherokia* (Polydesmida: Xystodesmidae), by Richard L. Hoffman. Pp. 227-264, 7 figs., 1 pl., October 12, 1960.
 No. 3437. Reexamination of species of Protura described by H. E. Ewing, by F. Bonet and S. L. Tuxen. Pp. 265-305, 103 figs., October 13, 1960.
 No. 3438. Studies in neotropical Mallophaga, XVII: A new family (Trochiliphagidae) and a new genus of the lice of hummingbirds, by M. A. Carriker, Jr. Pp. 307-342, 12 figs., October 13, 1960.
 No. 3439. The pelagic amphipod genus *Parathemisto* (Hyperidea: Hyperiidae) in the North Pacific and adjacent Arctic Ocean, by Thomas E. Bowman. Pp. 343-392, 19 figs., October 13, 1960.
 No. 3440. Assassin bugs of the genus *Ghilianella* in the Americas (Hemiptera, Reduviidae, Emesinae), by J. Maldonado-Capriles. Pp. 393-450, 146 figs., September 9, 1960.
 No. 3441. Welcome Mound and the effigy pipes of the Adena people, by Frank M. Setzler. Pp. 451-458, 1 fig., 4 pls., September 9, 1960.
 No. 3442. Descriptions of new bats from Panama, by Charles O. Handley, Jr. Pp. 459-479, October 6, 1960.
 No. 3443. Cultural sequences in Hokkaido, Japan, by Lt. Col. Howard A. MacCord. Pp. 481-503, 5 figs., 14 pls., December 5, 1960.
 No. 3444. Noctuid moths of the Scopulepes group of *Hemeroplanis* Hübner, by E. L. Todd. Pp. 505-515, 6 figs., 1 pl., September 13, 1960.
 No. 3445. *Lithoglyptes spinatus*, a burrowing barnacle from Jamaica, by Jack T. Tomlinson and William A. Newman. Pp. 517-526, 10 figs., December 20, 1960.

- No. 3446. Notes on mysidacean crustaceans of the genus *Lophogaster* in the U.S. National Museum, by O. S. Tattersall, D. Sc. Pp. 527-547, 7 figs., December 20, 1960.
- No. 3447. The fairy shrimp *Brachinecta campestris* from northwestern United States (Crustacea: Phyllopora), by James E. Lynch. Pp. 549-561, 5 figs., December 5, 1960.
- No. 3448. Stargazer fishes from the western North Atlantic (family Uranoscopidae), by Frederick H. Berry and William W. Anderson. Pp. 563-586, 1 fig., 4 pls., April 12, 1961.

FROM VOLUME 113

- No. 3450. *Paraconger*, a new genus with three new species of eels (family Congridae), by Robert H. Kanazawa. Pp. 1-14, 3 figs., 2 pls., January 26, 1961.
- No. 3451. Revision of the milliped genus *Deltotaria* (Polydesmida: Xystodesmidae), by Richard L. Hoffman. Pp. 15-35, 4 figs., March 17, 1961.
- No. 3452. Four new species of *Pseudocyclops* (Copepoda: Calanoida) from Puerto Rico, by Thomas E. Bowman and Juan G. González. Pp. 37-59, 11 figs., March 20, 1961.

Publications by Members of the Staff of the United States National Museum

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- Bailey, Reeve M., and Gilbert, Carter R. The American cyprinid fish *Notropis kanawha* identified as an interspecific hybrid. *Copeia*, No. 4, pp. 354-357, 1 fig., 1960.
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- Bayer, Frederick M., and Deichmann, Elisabeth. The Ellisellidae (Octocorallia) and their bearing on the zoogeography of the eastern Pacific. *Proc. Biol. Soc. Washington*, vol. 73, pp. 175-182, 2 figs., December 30, 1960.
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- Blake, John B. American Association for the History of Medicine: report of the thirty-third annual meeting. *Bull. Hist. of Medicine*, vol. 34, No. 5, pp. 348-365, September-October 1960.
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- Boardman, Richard S. A revision of the Ordovician bryozoan genera *Batostoma*, *Anaphragma*, and *Amplexopora*. *Smithsonian Misc. Coll.*, vol. 140, No. 5, pp. 1-28, 7 pls., 1960.
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- Bowman, Thomas E. The pelagic amphipod genus *Parathemisto* (Hyperidea: Hyperiididae) in the North Pacific and adjacent Arctic Ocean. *Proc. U.S. Nat. Mus.*, vol. 112, No. 3439, pp. 343-392, 19 figs., October 13, 1960.

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- Carriker, M. A., Jr.** A note on the identity of *Acidoproctus hopkinsi mexicanus* Carriker, 1954 (Mallophaga: Philopteridae). Journ. Kansas Ent. Soc., vol. 33, No. 1, pp. 47–48, 4 figs., January 1960.
- . Studies in neotropical Mallophaga, XVII: A new family (Trochiliphagidae) and a new genus of the lice of hummingbirds. Proc. U.S. Nat. Mus., vol. 112, No. 3438, pp. 307–342, 12 figs., October 1960.
- . New species of *Ardeicola* (Mallophaga) from Colombian hosts. Novedades Colombianas, vol. 1, No. 5, pp. 317–329, 8 figs., August 1960.
- . Itinerario del autor durante sus recolecciones en la region de Santa Marta, Colombia de Junio de 1911 a Octubre de 1918 (Continuación). Novedades Colombianas, vol. 1, No. 5, pp. 330–335, August 1960.
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(Except when otherwise indicated, the specimens were presented by individual donors or were transferred by the Bureaus of the Government in accordance with law.)

A. M. Byers Co., Pittsburgh, Pa.: (Through B. M. Byers) Puddling furnace (233505).

Abendroth, Mrs. A., Teresópolis, Brazil: Phanerogam from Brazil (231936).

Academy of Natural Sciences of Philadelphia, Philadelphia, Pa.: (Through Dr. Selwyn S. Roback) 7 midges, paratypes, from the U.S. (231-929); (through Dr. Robert Robertson) 9 mollusks, including a paratype, from Bimini, Bahamas (233790, exchange).

Academy of Sciences of the U.S.S.R., Moscow, U.S.S.R.: (Through Dr. Z. A. Filatova) 607 fresh-water mollusks from the U.S.S.R. (235694, exchange); (through Prof. Sh. I. Sarycheva) 17 brachiopods from the Carboniferous, Permian, and Triassic of Russia (231-894, exchange); (through Mrs. Z. G. Stschedrina) 100 Recent Foraminifera from various localities (227928, exchange). *Zoological Institute*: (Through Dr. A. Stackelberg) 344 flies from Russia (232094, 231923, exchanges).

Acuña, Ing. Julián (See Estación Experimental Agronómica)

Adelaide, University of, Adelaide, South Australia: (Through Dr. A. W. Kleeman) 11 minerals from Onadatta, South Australia (231710, exchange).

Adler, Dr. Hans H. (See Atomic Energy Commission)

Adrian, Dr. H. (See Naturhistorisches Museum)

Agee, Comdr. George W., New York, N.Y.: Pocket medicine kit and Civil War diary of Dr. Matthew A. Henderson (233497).

Agence Philatelique Haitiene (See Haiti, Government of)

Agriculture, Department of, Suva, Fiji: 2 phanerogams from Fiji (235621).

Agriculture, U.S. Department of, Washington, D.C.: 2 phanerogams, isotypes (232059); 172 phanerogams from collection of the late Dr. S. F. Blake (233549); (through Dr. Gabriel Edwin) phanerogam, isotype (236114); (through Edna Hoover) 2 sponges (231305); (through Dr. B. Francis Kukachka) 210 wood samples (234750); (through Dr. Alan Stone) 2 crayfishes, also parasites, from Montana (234-316). *Agricultural Research Service*: 12 land snails from Mexico (229236); 301 phanerogams, 7 grasses, and 21 ferns collected by Howard Scott Gentry in Mexico and southwestern United States (231039); 39 phanerogams from South Africa collected by Dr. Walter Hodge (231041); 69,400 miscellaneous insects, world-wide (232035, 235785); 55 phanerogams and 62 grasses (232053, 234985); 11 phanerogams collected in Alabama by R. E. Perdue, Jr. (233039); (through E. J. Ford) 2,915 miscellaneous insects from Hawaii (232034); (through Dr. F. J. Hermann) 86 phanerogams and 7 grasses of the U.S. (231028); (through Dr. G. E. Hilbert) 4,611 parasitic flies from the Orient and Palaearctic, and 490 associated slides (236028); (through Dr. Fred G. Meyer) 28 bamboos (231554); (through Dr. P. W. Oman) 150 land and fresh-water snails and 8 snakes from Colombia, Costa Rica, Ecuador, El Salvador, France, Mexico, Netherlands New Guinea, Okinawa, Panama, Peru, Philippine Islands, Taiwan, Arizona, and South Carolina (229031, 229554, 229747, 230007, 230755, 231087, 233532,

- 233971); (through Dr. R. I. Sailer) 2 land snails from Mexico (230332). *Forest Service*: 565 phanerogams, 205 grasses, and 9 ferns (231552). *National Arboretum*: 255 phanerogams collected in Afghanistan by Walter Koelz (232212). *Soil Conservation Service*: 3 grasses from Florida (232921).
- Ahlner, Dr. Sten** (See Naturhistoriska Riksmuseet)
- Ahlstrom, Dr. Elbert H.** (See Interior, U.S. Department of the)
- Aitken, Dr. T. H. G.**, Port of Spain, Trinidad: 47 flies from Trinidad (232191).
- Akerley, James C.** (See Chas. T. Main, Inc.)
- Alaska Department of Fish and Game**, Kodiak, Alaska: (Through Guy C. Powell) 2 crabs (233340).
- Albanese, John S.**, Union, N.J.: 10 minerals from various localities (232255, 235444, 235452, 235548).
- Albasin, Laird**, Cadiz, Ohio: Hailwood lamp, 2 Davy lamps, and a miner's pick (235039).
- Albert, Mr. and Mrs. Ernest**, San Francisco, Calif.: 16 marine mollusks from Okinawa, Ryukyu Islands (226400).
- Albert, Sidney G.**, Great Neck, Long Island, N.Y.: Russian paper money consisting of 726 currency notes and documents of value (232127).
- Albert and J. M. Anderson Mfg. Co.**, Boston, Mass.: (Through L. C. Cobbett) Sprague electric motor (235993).
- Alberta, University of**, Edmonton, Alberta, Canada: (Through Dr. R. E. Follinsbee) 4 specimens of the Bruderheim, Canada, meteorite (233177, exchange).
- Albertson, John**, Washington, D.C.: Parchment deed of the 18th century and French sampler, 1841 (235056, 235641).
- Albuquerque, Dalcy**, Washington, D.C.: 3 flies, paratypes, from Brazil (232751).
- Aldrich, Dr. Lewis E., Jr.**, Portland, Oreg.: 4 slides, holotypes and paratypes, of trematode worms (232797).
- Alexander, Dr. Charles I.**, Dallas, Tex.: (Through Dr. I. Gregory Sohn) 500 ostracodes from the Paleozoic, Mesozoic, and Tertiary of North America and Europe (231015).
- Alexander, Dr. Charles P.**, Amherst, Mass.: 3,306 miscellaneous insects from North and South America (231218).
- Alexander, R. J.**, Washington, D.C.: Copper nugget from the Kennecott Copper Corp. Mine, Kennecott, Alaska (233822).
- Alexander, Dr. Taylor R.**, Coral Gables, Fla.: 3 land snails from Balboa, Panama (225391).
- Alexis, Louis J.** (See Commerce, U.S. Department of)
- Alicata, Dr. J. E.** (See Hawaii, University of)
- Allan, Greever** (See Post Office Department)
- Allen, Dr. H. W.**, Moorestown, N.J.: 16 wasps from the West Indies (235890).
- Allen, Dr. J. A.** (See Dove Marine Laboratory)
- Allen, James E.**, Alexandria, La.: Worm tube, Eocene, from the Red River at Montgomery Landing, Grant Parish, La. (232346).
- Allen, William Slater**, Providence, R.I.: Robertson-Thompson steam engine indicator, ca. 1900 (234643).
- Allis-Chalmers Manufacturing Co.**, Milwaukee, Wis.: (Through Will Mitchell) fuel cell tractor (232284).
- Allred, Dr. Donald M.**, Provo, Utah: 12 slides of mites from Utah (235021).
- Allred, Rev. Hoyle T.**, Albemarle, N.C.: 8 fresh-water snails from Cuba (231307).
- Allsopp, Dr. W. H. L.** (See British Guiana Department of Agriculture)
- Alsaker, Dr. R. L.**, St. Petersburg, Fla.: 4 marine mollusks from Australia (232015).
- Alsaker, Dr. R. L., Estate of:** (Through Mrs. Irene E. Draper) 45 marine mollusks (236044).
- Altick, H. K.**, Dayton, Ohio: Steel rule, calipers, and engineer's handbook (229732).
- Aluminum Co. of America**, Rosiclare, Ill.: (Through W. S. Skeels, W. C. Lay, and W. H. Harrison) 13 minerals from Colorado, Illinois, and Kentucky (231900).

American Fastener Co., Waterbury, Conn.: (Through Max Keissling) eyelet press for production of snap fasteners (235968).

American Heritage Foundation, New York, N.Y.: (Through Ralph E. Becker) 62 items from recent elections (236121).

American Museum of Natural History, New York, N.Y.: Bird skin (233388, exchange); 12,445 phanerogams, 439 grasses, 2,449 ferns, 439 cryptogams, and 8 woods collected by Dr. L. J. Brass on the 6th Archbold Expedition to New Guinea (235425); (through Dr. Francesca T. LaMonte) fish, paratype, from the Philippines (233719); (through Dr. Norman D. Newell) 20,000 silicified brachiopods from the Permian of Guadalupe, Sierra Diablo, and Glass Mountains, Tex. (233905, exchange); (through Dr. J. G. Rozen, Jr.) 34 legionary ants from Arizona (235017); (through Dr. Donald F. Squires) 110,000 invertebrate fossils constituting the greater part of the Greene collection (232542); (through Dr. Richard G. Van Gelder) 2 paratypes of a squirrel from Burma (232942, exchange).

American Oil Co., New York, N.Y.: (Through John B. Goodman) Amoc trophy (236165).

American Rolex Watch Corp., New York, N.Y.: (Through R. Dentan) 3 Rolex submariner watches and the Piccard Rolex watch which was attached to the bathyscaph when it carried Jacques Piccard and Lt. Don Walsh, USN, to the floor of the Pacific Ocean (233565).

American Society of Gem Counselors (See Browne, Meyer)

Anderson, Albert and J. M., Mfg. Co. (See Albert and J. M. Anderson Mfg. Co.)

Anderson, Dr. D. M., Washington, D.C.: 2 holotypes and 18 paratypes of Coleoptera from Utah (234140).

Anderson, J. M. S. (See Danish Postal and Telegraph Museum)

Anderson, Oliver E., Cave-in-Rock, Ill.: Calcite and sphalerite from Crystal Mine, Ill. (231909).

Anderson, Raymond C. (See Rockwell Manufacturing Co.)

Anderson, Mr. and Mrs. Robbins Battell, and O'Neil, Mrs. Gilbert M., Norfolk, Conn.: Chinese Mandarin coat of the 19th century (230781).

Anglada, D. (See Wolf Safety Lamp Co. of America, Inc.)

Anonymous: 8 lace articles, rifle from Kentucky, and 4 Medals of Honor (231488, 232966, 235565).

Ansonia Manufacturing Co., Ansonia, Conn.: (Through Clarence G. Nordstrom) Davenport automatic screw machine (235974).

Antonson, K. A., Falls Church, Va.: 44-star U.S. flag (233304).

Antunez, Francisco, Mexico, D.F.: Piece of native antimony and kermesite from Arechuyo, Chihuahua, Mexico (231677).

Araga, Dr. Chûichi (See Natural Aquarium)

Architect of the Capitol, Washington, D.C.: (Through J. George Stewart) DC generator panel assembly and 2 DC motors (235994).

Ardigo, Joseph J., Williamson, W. Va.: Miner's needle, 3 copies of the pictorial section of the Washington Post of 1923, and an old photograph of the mine workers' meeting of 1921 (235970).

Argonne National Laboratory, Argonne, Ill.: (Through Dr. Norman Hilberry) Langsdorf pile oscillator (215530).

Aristeguieta, Dr. Leandro (See Ministerio de Agricultura y Cria)

Arizona, University of, Tucson, Ariz.: (Through Dr. E. L. Cockrum) 45 mammals from Mexico and the U.S. (232690, exchange); (through Dr. Francis Drouet) 9 algae from Antarctica (233759); algae, isotype (234456); (through Dr. J. T. Marshall, Jr.) bird's nest from the Caroline Islands (232011).

Armstrong, Dr. Florence A., Alexandria, Va.: Chest of drawers and mirror, 3 rocking chairs, 4 side chairs, and a pitcher (236052).

Arnett, Dr. R. H., Jr., Washington, D.C.: Beetle from Africa (232027).

- Arnold, Charles** (See Gilbert Clock Co.)
- Arnow, Theodore**, Santurce, Puerto Rico: Gorgonian (234784).
- Aron, Dr. William** (See Washington, University of)
- ARS Polona** (See Poland, Government of)
- Arthur D. Little, Inc.**, Cambridge, Mass.: Silk purse made from sows' ears (236084).
- Arthur J. Dyer Observatory**, Nashville, Tenn.: (Through Robert Hardie) 4 specimens of the Murray Co., Ky., meteorite (236022).
- Artman, Dr. R. A.** (See Bucknell University)
- Ashbrook, Arthur G.**, Pittsburgh, Pa.: 3 original cartoons by Cyrus Cotton Hungerford (231932).
- Ashley, George**, Pala, Calif.: 3 agate bowls and bowl of amethyst and agate (230719, exchange).
- Ashlock, Peter D.**, Berkley, Calif.: 673 miscellaneous insects from California and other western states (232306, exchange).
- Ashworth, F. L.** (See E. E. Souther Co.; and Peck, Stow and Wilcox Co.)
- Aslakson, Capt. Carl I.**, Bethesda, Md.: 13 marine mollusks from Australia and the Canary Islands, also 1 hermit crab from the Canary Islands (233502).
- Athearn, Herbert D.**, Cleveland, Tenn.: 995 fresh-water mollusks from southeastern U.S. (234451).
- Atlantic Refining Co.**, Dallas, Tex.: (Through A. J. Krumholz) 32 invertebrate fossils from the Devonian of the Spanish Sahara (231898).
- Atlantic Union College**, South Lancaster, Mass.: (Through Dr. David Kissinger) holotype and 2 paratypes of Coleoptera from Central America, Mexico, and the U.S. (234022, exchange).
- Atomic Energy Commission**, Washington, D.C.: (Through Brigham Young University) 790 beetles and 10 weevils from Nevada (234579); (through Dr. Hans H. Adler) 50 drums of uranium ores from various localities (231580).
- Atyeo, Dr. Warren T.**, Lincoln, Nebr.: 8 mites, 2 holotypes and 6 paratypes (222747, 232044).
- Atyeo, Dr. Warren T.**, Lincoln, Nebr., Crossley, Dr. D. A., Oak Ridge, Tenn., and Falla, Dr. R. A., Wellington, New Zealand: 8 slides of mites, paratypes (235884).
- Auburn University**, Auburn, Ala.: 86 grasses and 7 phanerogams from Alabama (231372, 233461).
- Augur, Mrs. Morris C.**, Washington, D.C.: 2 feathered Hawaiian hat bands (234067).
- Australia, Government of: *Australian Museum***: (Through Dr. Donald F. McMichael) 39 mollusks mostly from Australia (234717, exchange). *Botanic Gardens*: 51 phanerogams, 26 grasses, and 23 ferns from Australia (231855, 234079, exchanges).
- Axelrod, Dr. Herbert R.**, Jersey City, N.J.: 727 fishes, including 3 types, and 36 reptiles from various localities (231149, 231641, 232567, 232615, 235204, 235493). (See also Géry, Dr. J. R.)
- Aye, Capt. Tin**, Fort Lee, Va.: 14 postage stamps of the Union of Burma (234712).
- Ayre, Katie May**, Washington, D.C.: Man's watch chain of the mid-19th century (233395).
- Bacas, Mrs. Harry** (See Zon, Mrs. Henry)
- Badger, Mrs. S. E.**, Middleburg, Va.: 1 lot of frogs and 21 snails from St. Vincent, B.W.I., collected by donor (235354).
- Baer, Carlos A.**, Lehighton, Pa.: Samples of quartz yarn and fabric (232963).
- Bagnal, John E.**, Arlington, Va.: German Army wound badge of World War II (234627).
- Bailey, Prof. Stanley F.** (See California, University of)
- Baker, Dr. Arthur A.** (See Interior, U.S. Department of the)
- Baker, Mrs. Beatrice E. Wilson**, Washington, D.C.: Gentleman's hatbox of the 19th century (230588).
- Baker, Lt. Col. Hinton J.** (See Defense, U.S. Department of)

Baker, James H., Baker, Oreg.: 50 centipedes, millipedes, scorpions, and spiders from northwestern U.S. (233328).

Baker, Ray A., Lompoc, Calif.: Fossil teleost fish in the nodule from the Miocene near Lompoc, Calif. (232555).

Balan Menon, P. K. (See Forest Research Institute)

Baldwin, Wayne J. (See California, University of)

Ball, Arthur W., Jr., Amarillo, Tex.: 40-star U.S. flag (231500).

Ball, Dr. George E., Jr., Edmonton, Alberta, Canada: 35 centipedes from Texas (234153).

Ball, Wiley S. (See San Fernando Lodge No. 365)

Baltimore and Ohio Railroad Co., Baltimore, Md.: (Through L. W. Sagle) 6 railroad car drawings (236163).

Baltzo, Howard, Seattle, Wash.: Slender-billed shearwater (233534).

Bandy, Dr. Mark C., Wickenburg, Ariz.: Trilobite from the Devonian of Bolivia (234442).

Banks, J. T., Norfolk, Va., and Mullmann, T. M., Charlottesville, Va.: 44 mammals from Virginia (236099).

Bann, Helen, Cincinnati, Ohio: Photograph of Abraham Lincoln, engraved wood-block based on this photograph, and a proof impression (233838).

Barnawell, Dr. Earl B., Berkeley, Calif.: Holotype and paratype of a marine mollusk from San Francisco, Calif. (232766).

Barnes, Col. Theodore, Miami Beach, Fla.: Garnet engagement ring, Chinese straw fan, and a Chinese scroll issued to a government official during the 19th century (234860).

Barney Neighborhood House, Washington, D.C.: 2 children's dresses of the late 19th and early 20th centuries (230837).

Barr, Dr. A. Ralph, Fresno, Calif.: 24 insects from North America (234606, 236032).

Bartholomew, Elizabeth Ann (See West Virginia University)

Bartunek, John, Warren, Ohio: 15 Bureau precancel stamps with narrow format, of Warren, Ohio (232125).

Basilewsky, Dr. P. (See Musée Royal de L'Afrique Centrale)

Basilio, Rev. Father Aurelio, Santa Isabel, Spanish Guinea, West Africa: 115 mollusks from Spanish Guinea (227639).

Bassler, Dr. R. S., Washington, D.C.: Ancient exposure meter (233046).

Batchelor, Charles and Rosanna Memorial, Inc. (See Charles and Rosanna Batchelor Memorial, Inc.)

Bauer, Henry R., Atlanta, Ga.: Woven sandal from Arizona (228236).

Baxter, Mrs. Dorothy Lee, Chester, Md.: Bottle, pipe, and 2 pieces of pottery dredged from the Chesapeake Bay (231845).

Bearden, Dr. Alan J., Ithaca, N.Y.: (Through Edwin Over) 12 minerals from Colorado and Utah (234600, exchange).

Beardsley, John W. (See Experiment Station of the Hawaiian Sugar Planters' Association)

Beattie, Robert, Lane Cove, Australia: 9 fishes from the Jurassic and 4 insects from the Permian of New South Wales (232524, exchange).

Beaudette Foundation for Biological Research, Solvang, Calif.: (Through Dr. E. Yale Dawson) 3 marine algae, isotypes (232206).

Beck, Henry, Cumberland, R. I.: Micrometer caliper (234026).

Becker, Edward C. (See Entomological Research Institute)

Becker, Ralph E. (See American Heritage Foundation; Bemiss-Jason Corp.; Cameron, Mrs. Betty F.; Campaign Products Co.; Columbia Specialty Co.; Darcy Specialties Co., Inc.; Don Marshall Co.; Elegant Button and Novelty, Inc.; Ever-Ready Lace and Textile Co.; Grogan Photo Co.; Handy Hanky, Inc.; Howden Jewelers; Jolle Jewelers International, Inc.; Knobby Krafters; Marsh, Walt; Needlecraft House; Paperlynen Co.; Porter, Lenore E.; R. B. Associates; Rapp, Andrew; Romero, R.; United Publishing Co., Inc.; Vari-vue Animations; Waldman Button Co.; and Zoo-Line.)

Bees, L. E. (See Union Hardware Co.)

Beil, Dr. Hanswilhelm, Göttingen, Germany: 2 autunites from Italy (231024, exchange).

Bekker, Konrad, Washington, D.C.: 6 tourmalines from Loikaw, Burma (233823).

Belkin, Dr. John N., Los Angeles, Calif.: 66 mosquitoes, types, from the South Pacific (234012).

Bell, Dr. J. Frederick (See Health, Education, and Welfare, U.S. Department of)

Bellis, M/Sgt. E. H., Forest Heights, Md.: Card with signature of Charles Guiteau, assassinator of James A. Garfield (232214).

Bemiss-Jason Corp., Chicago, Ill.: (Through Ralph E. Becker) 6 corrugated cardboard posters from the Republican 1960 campaign (236132).

Benesh, Bernard, Burrville, Tenn.: 7 beetles from Tennessee (234857).

Bennett, Dr. Charles F., Jr., Los Angeles, Calif.: 4 shrimps and 2 crabs (232704).

Bennett, Gordon F., Toronto, Canada: 25 rodent bot flies from Ontario (235885).

Benninghoff, Dr. William S. (See Michigan, University of)

Benoub, Mounir Wadie (See Institute of Hydrobiology and Fisheries)

Ben-Tuvia, Adam (See Sea Fisheries Research Station, The)

Berard, Samuel J., Providence, R. I.: Early type of zipper (235963).

Berdan, Dr. Jean M. (See Interior, U.S. Department of the)

Berkebile, Don, Takoma Park, Md.: Saw jointer and gage (232225).

Bern, University of, Bern, Switzerland: (Through J. Geiss) specimen of Kandahar, Afghanistan meteorite (235709, exchange).

Berry, Charles A., Wilkes-Barre, Pa.: Original sketch by James Montgomery Flagg (232967).

Berry, Frederick (See Musée Royal de L'Afrique Centrale)

Berwick, Mrs. Clara W., Norwood, Mass.: 6 Persian rugs (234458, 234459).

Betts, Basil Henry (deceased): (Through Brig. Gen. T. J. Betts) 2 Japanese chairs (232172).

Betts, Brig. Gen. T. J. (See Betts, Basil Henry, deceased)

Betz, Mrs. George, Washington, D.C.: American rocking chair, ca. 1838, and a plush jacket of the 19th century (233836).

Bevier, E. B., Grand Island, Nebr.: Drum, strap, and baldric of the Civil War period (232886).

Beyer, Dr. H. Otley, Manila, Republic of the Philippines: 6,991 tektites from the Philippines and Laos and 258 pseudotektites from the Philippines (224866, 226211).

Biaggi, Dr. Virgilio, Jr. (See Puerto Rico, University of)

Biays, Mrs. E. Tuckerman (See Triest, Mrs. Willard)

Bideaux, George, Tucson, Ariz.: 3 minerals from various localities (235919, exchange).

Bideaux, Pvt. Richard A., Fort Monmouth, N.J.: 2 minerals from Arizona and Montana (235448).

Bien, Corabel, Bethesda, Md.: 11 items used and made at the Takoma Park kindergarten and articles associated with donor's family (234821).

Biese, Dr. Walter, Santiago, Chile: 39 marine and land mollusks from Chile (230599).

Biezanko, Dr. C., Pelotas, Brazil: 453 miscellaneous insects from Brazil (231010, 233527, 235833).

Bigi, Prof. Federico, Republica di San Marino, Italy: First-day cover franked with 14 postage stamps of San Marino commemorating the 17th Olympiade (231756).

Bingham, Mrs. Millicent Todd, Washington, D.C.: Shaving mirror and lamp (233035).

Bishop, Dr. Philip W., Washington, D.C.: 2 philatelic covers of Russia (236148).

Bishop Museum, Bernice P., Honolulu, Hawaii: (Through Dr. E. H. Bryan, Jr.) 31 woods (235628, exchange).

Bishop Museum, Bernice P., Honolulu, Hawaii; **Defense, U.S. Department of**; and **Smithsonian Institution, Washington, D.C.**: (Through Col. Robert Traub) 600 mammals, 591 birds, 39 reptiles and amphibians, 92 mollusks, 2 marine invertebrates, and 22 insects from South Viet Nam collected by Bernard Feinstein (231561, gift-transfer).

Black, Harriet, E., Washington, D.C.: 34-star U.S. flag (232061).

Blackford, James Baylor, Richmond, Va.: U.S.S.R. naval ensign (235566).

Blackmar, Mrs. H. B., Omaha, Nebr.: 30 varied items, including Victorian table silver, shaving mirrors, and children's books (232677).

Blacksin, Mrs. Martin, Hyattsville, Md.: Russian silver dinner knife and fish knife and fork (231741).

Blaker, Mrs. Margaret (See Omwake, H. G.; and Smithsonian Institution).

Blancett, Esther G., Washington, D.C.: 5 first-day covers of the U.S. and 2 Italian post cards (234176, 236159).

Blanchard, Ruth (See Smithsonian Institution)

Blanford, Ned, McLean, Va.: 33 minerals from various localities (232087).

Bogert, R. K., Jr. (See Morrell, Junior)

Boles, Emil, Amawalk, N.Y.: Collection of unusual dental instruments (231721).

Bonarski, Dr. Adam (See Poland, Government of)

Borro, Dr. Primitivo, Havana, Cuba: 5 brachiopods from the Eocene of Cuba (234131).

Boss, Marcellus Graeme (See Guam Department of the Interior)

Boston University, Boston, Mass.: (Through Dr. Arthur G. Humes) 10 sea anemones (235126).

Bostrom, Martin, Orebro, Sweden: First jet flight cover, Stockholm to New York, May 1, 1960 (234045).

Botanical Museum and Herbarium, Utrecht, Netherlands: 20 phanerogams (233900).

Botanische Staatssammlung, Munich, Germany: Lichen from Europe (229764).

Botanischer Garten und Museum, Berlin-Dahlem, Germany: 116 photographs of phanerogams (231749, exchange).

Boucot, Dr. Arthur J., Cambridge, Mass.: 6 andalusites from Ireland (236021).

Bournier, Dr. A. (See Laboratoire de Zoologie)

Bourquin, Fernand, Buenos Aires, Argentina: Small moth, paratype, from South America (232095).

Bousfield, Dr. E. L. (See Canada, Government of)

Boutelje, Dr. Julius (See Swedish Forest Products Research Laboratory)

Bowen, Leroy F., Beltsville, Md.: 2 stoneware gingerale bottles (232192).

Bowker, H. F., Oakland, Calif.: 3 coins from Hong Kong (231056).

Bowman, Thomas E., Washington, D.C.: Plankton (232145). (See also Scripps Institution of Oceanography)

Boyd, E., Santa Fe, N. Mex.: 16 table knives and a ceramic tile (235049).

Boyd, F. R. (See Carnegie Institution of Washington)

Boyd, Mrs. Helen L., East Orange, N.J.: 209 U.S. Emergency and Depression Scrip (234050).

Boyer, Prof. R. A. (See Muhlenberg College)

Boyer, Mrs. William P., Bethesda, Md.: Korona view camera with Dallmeyer lens (232965).

Braden, G. C., Darlington, Pa.: 2 sets of cannel coal (235636).

Bradford, Faith, Washington, D.C.: Pair of 19th-century hair earrings and daguerreotype of subject wearing a dress now in the Smithsonian collections (230605); souvenir flags and photographs relating to the official reception given Admiral Dewey in 1899 (235952).

Bradley, E. A. (See Norton Co. of Canada, Ltd.)

Bradshaw, Mrs. Frederic H., Oak Park, Ill.: 6 etchings by Charles W. Dahlgreen (231414).

Bramlette, Dr. M. N., La Jolla, Calif.: 43 slides containing microfossils, types, from the Early Tertiary of California (231571).

Branch, Nina (See Entomological Research Center)

Brandhorst, C. T., Seward, Nebr.: 8 moths from Nebraska (232023, 232029).

Brandt, John H., Brooklyn, N.Y.: 84 ethnological items from the Caroline and Marshall Islands; 66 eggs and 18 nests from the Caroline Islands (231380, 231718, exchanges).

Brandt, Dr. Rolf A., Hamburg, Germany: (Through Al Hoffman) 652 land and fresh-water mollusks from Libya, including 235 paratypes (234612).

Branham, Mrs. Hugh, Baltimore, Md.: (Through William E. Old, Jr.) mollusk, paratype, from Kermadec Islands, New Zealand (234155).

Bratter, Herbert M., Washington, D.C.: Mandarin hat of the Chinese Empire (232174).

Brazenor, Dr. Charles W. (See National Museum of Victoria)

Breakey, E. P. (See Washington State University)

Bredin, Mr. and Mrs. Bruce (See Bredin Fund)

Bredin Fund, Smithsonian Institution: (Through Mr. and Mrs. Bruce Bredin) A large collection of mammals, reptiles, fishes, insects, arthropods, other invertebrates, and mollusks collected by the Smithsonian-Bredin Expedition to the Cayman Islands and Mexico, 1960 (229190).

Breland, Dr. Osmond P., Austin, Tex.: 17 mosquitoes from Colorado (234011).

Brennan, James M. (See Health, Education, and Welfare, U.S. Department of)

Bretzfelder, Dr. K. B., New Haven, Conn.: 46 fire-fighting accessories and set of child's picture blocks (233360, 235943).

Brigham, Lester H., Southbridge, Mass.: 163 U.S. stamps precanceled "Southbridge, Mass." (236144).

Brigham Young University (See Atomic Energy Commission)

Brinkley, Russ (See Silver Wings Fraternity)

British Columbia, University of, Vancouver, Canada: 194 phanerogams,

7 grasses, and 80 ferns (236116, exchange).

British Guiana Department of Agriculture, Georgetown: (Through Dr. W. H. L. Allsopp and Dr. Stillman Wright) 78 shrimps (230758).

British Honduras Department of Agriculture, Central Farm, British Honduras: 36 grasses from British Honduras (231128).

Brock, Norman H., New York, N.Y.: (Through Clarence P. Mitchell) 325 World War I posters (232120).

Brown, F. K. (See Continental Screw Co.)

Brown, Janice, Washington, D.C.: Votes for Women pin (233301).

Brown, Noel K., New York, N.Y.: 6 Foraminifera, types, from the Upper Cretaceous of Cuba (235002).

Brown, Dr. W. J. (See Canada, Government of)

Brown, Dr. W. L. (See Harvard University)

Brown University, Providence, R.I.: (Through George M. Smith) 55 pieces of electrical apparatus (235101).

Browne, Meyer, and American Society of Gem Counsellors, Boston, Mass.: 33 watches (231060).

Brunner, John, Brooksville, Fla.: Worm lizard (230961).

Bryan, Dr. E. H., Jr. (See Bishop Museum, Bernice P.)

Buckley, Mrs. Evelyn Bright, Washington, D.C.: 84 newspapers published in the early 19th century (231750).

Buckley, Mrs. W. W., Washington, D.C.: 3 original drawings by William Allen Rogers and a lithograph of Distribution of the American Art-Union Prizes, Dec. 1847 (235649).

Bucknell University, Lewisburg, Pa.: (Through Dr. R. A. Artman) 8 pieces of ancient physical and electrical apparatus (235481).

Buffalo Society of Natural Sciences, Buffalo, N.Y.: 10 phanerogams collected in Mexico by R. F. Andrie and H. H. Axtell (230993).

Bulkeley, Morgan, Copake Falls, N.Y.: Fossil lobster claw from the Miocene of Gay Head, Mass. (234443).

Bullis, Harvey R. (See Interior, U.S. Department of the)

Bullock, Dr. D. S., Angol, Chile: 8 woods and 6 herbarium vouchers (231551).

Bunker, Mrs. Evans, Colfax, Wash.: Framed "Coat of Arms" illustrating the military career of Capt. George A. Deering (235949).

Burbanck, Dr. W. D. (See Emory University).

Burch, Dr. John B. (See Michigan, University of).

Burch, John Q., Los Angeles, Calif.: 20 snails from various localities, including a species from Inaccessible Island (230968).

Burchfiel, Clark, New Haven, Conn.: 6 brachiopods from the early Ordovician of Nevada (235464).

Burden, Mrs. W. A. M., New York, N.Y.: Chaise longue and four-post bed with hangings of the 18th century (232405).

Burdette, Mrs. John S., Arlington, Va.: Rocking chair, 4-poster bed, a Philippine Moro shield, a trundle bed, and a sofa (235051).

Burdette, Mr. and Mrs. John S., Arlington, Va.: Seth Thomas striking and alarm clock and a Calumet watch (231953).

Bureau, Dr. René, Quebec, Canada: 70 brachiopods from the Ordovician of Port Neuf, Quebec (232272).

Burgess, Dr. C. M., Honolulu, Hawaii: 245 marine mollusks from Hawaii and 2 marine mollusks from the Marquesas and Red Sea (232407, 233961, 235678, exchanges).

Burke, Dr. Horace R., College Station, Tex.: 2 paratypes of weevils from America north of Mexico (236034).

Burke, John P., Brookmont, Md.: Yellow-bellied sapsucker (236024).

Burks, Dr. Barnard D., Washington, D.C.: 30 covers bearing miscellaneous foreign postage stamps (233843, 236160).

Burleigh, T. D. (See Interior, U.S. Department of the)

Burnstine, Bernard N., Chevy Chase, Md.: Ivory thimble and wooden case, possibly of the 18th century (233959).

Burton, Mrs. E. J., Washington, D.C.: Curtain ring from the White House East Room, ca. 1900, and a serving dish and plate from the state china of the Theodore Roosevelt and Benjamin Harrison administrations, respectively (235385).

Bushee, Mrs. Florence, Newburyport, Mass.: 7 antique chairs and a table (231316).

Bushey, Dr. Harold L., Barbourville, Ky.: Wooden nickel commemorating the 1960 Daniel Boone festival (233311).

Bushman, John B., Dugway, Utah: Kit fox from Utah (235217).

Butler, Dr. Philip A. (See Interior, U.S. Department of the)

Byers, B. M. (See A. M. Byers Co.)

Cadenat, Dr. Jean (See Institut Français d'Afrique Noire)

Caldwell, Dr. W. G. E., Saskatoon, Canada: 200 invertebrate fossils from the Devonian, Norman Wells area, N.W.T. (234133).

Calhoun, C. A., Port Lavaca, Tex.: Brackish-water clam from Calhoun Co., Tex. (233226).

California, University of: *Berkeley Campus*: 55 phanerogams and 29 ferns (230988, 231388, 231454); 673 phanerogams, 48 grasses, and 20 ferns collected on the University of California Botanical Garden's Sixth Expedition to the Andes (231978, 234403, gift-exchanges); 58 phanerogams (230898, 233040, exchanges); (through Dr. J. Wyatt Durham) fossil termite from Chiapas, Mexico (234814); (through Dr. Paul D. Hurd, Jr.) 6 bees, paratypes, from California (234605, exchange); (through J. W. MacSwain) slide mount of insect larvae from California (231409); (through William A. Newman) 9 barnacles (235133); (through Jerry A. Powell) 4 small moths from California (230862) and 80 small moths from the U.S. (235894, exchange). *Davis Campus*: (Through Prof. Stanley F. Bailey) 2 slides of thrips from California and Guam (232186). *La Jolla Campus*: (Through Dr. H. E. Suess) 4 meteorites from France and West Australia (231812, exchange). *Los Angeles Campus*: 98 phanerogams

and 90 grasses (232110, exchange); (through Wayne J. Baldwin) 13 fishes from the eastern Pacific (230727); (through Alfred W. Ebeling) fish, holotype, from the Galapagos Islands (231479); (through Ernst S. Reese) 8 hermit crabs (230591); (through Dr. Boyd W. Walker) 35 congrid eels, including holotypes and paratypes (216157, exchange). *Citrus Experiment Station*: (Through Dr. Evert I. Schlinger) 73 parasitic wasps, including 3 holotypes, from Hong Kong and California (233280).

California Academy of Sciences, San Francisco, Calif.: 2 flies, paratypes, and 12 grasses from California (232701, 233333, 233665); (through W. I. Follett) 35 shrimps (233587); (through Dr. Leo G. Hertlein) 152 marine mollusks from Clipperton Island (232147, exchange); (through C. Don MacNeill) 3 toad bugs from New Guinea (230815); (through Dr. Allyn G. Smith) 2 land snails, paratypes, from Trinity Co., Calif., and 4 marine mollusks from Easter Island (234158, 235900, exchanges).

California Department of Public Health, Berkeley Calif.: (Through Gail Grodhaus) 23 flies from California (231001).

Cambridge, Sgt. Philip, Cardiff, Wales: 72 brachiopods and 15 vertebrate fossils from the Paleozoic and Mesozoic of Great Britain (232470, exchange).

Cameron, Mrs. Betty F., Bethesda, Md.: (Through Ralph E. Becker) 2 "Pin the Trunk on the Elephant" games created by donor (234651).

Cameron, Prof. G. H. (See Hamilton College).

Campaign Products Co., Hollywood, Calif.: (Through Ralph E. Becker) 16 plastic hats from the 1960 presidential campaign (236133).

Campbell, Mrs. Ann S., Washington, D.C.: 4 U.S. and foreign postal cards (234465).

Campbell, Dr. K. S. W. (See New England, University of)

Canada, Government of: Department of Agriculture: 318 phanerogams, 49

grasses, and 9 ferns from Canada (233555, 234984, exchanges); (through Dr. W. J. Brown) 19 tiger beetles from Canada (235844); (through George R. Hopping) 32 scolytid beetles from Canada (233347); (through Dr. L. A. Kelson) 11 insects, paratypes, from North America (231002); (through G. E. Shewell) 2 flies (232871, exchange).

Department of Forestry: (Through A. W. H. Damman) 5 lichens from Labrador (233726); (through Dr. George H. Hopping) 8 paratypes of insects (233-938). *Department of Northern Affairs and National Resources*: (Through A. W. H. Damman) 6 lichens from Newfoundland (232547). *Geological Survey of Canada*: (Through Dr. K. R. Dawson) slice of the Abeo meteorite (235719, exchange). *National Museum of Canada*: (Through Dr. E. L. Bousfield) 10 amphipods (230590, exchange); (through Dr. Arthur H. Clarke, Jr.) 223 brackish-water mollusks from the West Indies (230715, exchange).

Canfield Fund, Smithsonian Institution: 15 minerals from various localities (231192, 231689); sphene from Baja California, Mexico (232086); peridot crystal, 90 carats, from the Isle of St. John, Red Sea, Egypt (235440).

Cannard, S. George, Dewart, Pa.: Potsherds and charred wood from Indian River Co., Fla. (234974).

Cantelo, Dr. W. W., San Francisco, Calif.: 2 snakes from Guam (229175).

Capart, Dr. A. (See Institut Royal des Sciences Naturelles de Belgique)

Cape Haze Marine Laboratory, Placida, Fla.: (Through Dr. Eugenie Clark and Dr. H. Steinitz) 778 marine fishes from the Red Sea (231715).

Caplin, Mortimer M. (See Treasury, U.S. Department of the)

Card & Osborne, Inc., Washington, D.C.: (Through Charles M. Osborne) garnet from Russia, 3.36 carats (234999, exchange).

Cárdenas, Dr. Martin, Cochabamba, Bolivia: 3 phanerogams from Bolivia (231220).

Caribbean Marine Biological Institute, Curaçao, Netherlands West Indies: (Through Dr. J. S. Zaneveld) 12 gorgonians (210447).

Carlquist, Dr. Sherwin, Claremont, Calif.: 800 slides of pollen preparation (232109, 233045, exchange); (through Dr. Warren S. Drugg) 100 slides of pollen (234068, exchange); (through Dr. A. R. Loeblich) 200 slides of pollen (232961, 233553, exchanges). (See also Rancho Santa Ana Botanic Garden)

Carnegie Institution of Washington, Washington, D.C.: (Through F. R. Boyd) analyzed actinolite from Manchester, N.H. (235917).

Carothers, Mrs. Genevieve Moore, Cape Cod, Mass.: Dress of the Empire period (233597).

Carpenter, Charles W. (See Technicolor Corp.)

Carpenter, Mrs. Eva Amelia, North Miami Beach, Fla.: 7 marine mollusks from Key Biscayne, Fla. (226192).

Carpenter, Maj. Walter N., Springfield, Va.: 49 miscellaneous mollusks (233533).

Carr Fastener Co., Cambridge, Mass.: (Through Wylmer Churchill) six-spindle eyelet machine and die set complete with component parts and samples (235964).

Carranza, Jorge (See Instituto Tecnológico de Veracruz)

Carrier Corp., Syracuse, N.Y.: (Through L. Logan Lewis) Carrier centrifugal refrigeration compressor (232896).

Carrillo, Ing. José Luis, Mexico, D.F.: 8 insects from North America (232041). (See also Rockefeller Foundation)

Carroll, Mrs. J. J., Arlington, Va.: 9-piece Korean costume for a 1-year-old boy (232171).

Carry, J. M. (See M. W. Kellogg Co. and Esso Standard)

Cartwright, O. L., Washington, D.C.: 3 isopods (233449); 10,000 miscellaneous scarab beetles, mostly from North America (235807); 10,000 miscellaneous beetles from the Western Hemisphere (235825).

Casanova, Richard L., Statesville, N.C.: 8 fossil blastoids from the Gasper limestone of Moulton, Ala. (231895).

Casco Products Corp., Bridgeport, Conn.: (Through L. F. Taylor) automatic screw machine (235961).

Cate, Crawford N., Los Angeles, Calif.: Paratype of a marine mollusk from Oahu, Hawaii (235898).

Causey, Dr. Nell B., Fayetteville, Ark.: 27 millipedes, including paratypes, from the U.S. (234144, 234813); 35 centipedes from Alabama, Mexico and Texas (235026, 235843).

Centre de Recherches Agronomiques des Antilles, Petit-Bourg, Guadeloupe: 2 phanerogams (230773).

Centro Nazionale del Legno, Florence, Italy: (Through Dr. G. Giordano) 23 woods (233761, exchange).

Chace, E. P., San Diego, Calif.: 14 crabs (230592).

Chaconas, Mrs. Mary-Grace (See Chaconas, Peter)

Chaconas, Peter, Annandale, Va.: (Through Mrs. Mary-Grace Chaconas) hybrid fish from Virginia (234815).

Chagnon, George E., New Bedford, Mass.: 138 precanceled stamps (233568).

Chalk, Dr. L. (See Oxford, University of)

Chamberlain Fund, Frances Lea, Smithsonian Institution: Peridot, 22.9 carats, from Arizona (233154); tourmaline from Brazil (234436); topaz, 146.35 carats, from Mason Co., Tex. (234597); pink scapolite, 12.33 carats, from Burma (235446).

Chapelle, Howard I., Alexandria, Va.: 2 builder's half-models from Connecticut (232979).

Charles and Rosanna Batchelor Memorial, Inc., New York, N.Y.: 54,930 items of stamps, seals, coins, buttons, lamps, bottles, vases, scientific instruments, and miscellaneous items, including the Emma E. Batchelor collection of stamps (233749).

Chas. T. Main, Inc., Port Hawkesbury, Nova Scotia, Canada: (Through James C. Akerley) iron nail believed to be from a Spanish vessel of the 18th century (229907).

Cheatum, E. P., Dallas, Tex.: 3 cam-podids from Sitton's Cave, Ark. (231350).

Chen, Chi Ling, New Haven, Conn.: 5 microscope slides of wood (235631).

Cheng, Dr. Thomas C., Easton, Pa.: 4 fresh-water snails from Pennsylvania (230990).

Cheng, Dr. Tien-Hsi, University Park, Pa.: (Through Dr. Edwin L. Cooper) dried fish from Hong Kong (235734).

Chesapeake Biological Laboratory, Solomons, Md.: (Through Dr. Frank J. Schwartz) 4 fishes from Chesapeake Bay (232872).

Chicago, University of, Chicago, Ill.: 8 phanerogams from Bolivia (232199); (through Dr. Mark G. Inghram) A. J. Dempster's mass spectrometer (235318).

Chicago Natural History Museum, Chicago, Ill.: Grass from Montana collected by John W. Thieret (234071); 1,360 phanerogams, 52 grasses, 20 ferns, 53 cryptogams, and 600 photos of phanerogams, types (232878, 233543, 233837, 234804, 235119, 236117, exchanges); (through Dr. J. W. Thieret) 42 wood samples (232752, exchange); (through Dr. Louis O. Williams) fern from Panama and a wood specimen (232633, 234993).

Childs, Prof. H. R. (See Rochester, University of)

Christ, Dr. Edwin A., Vermillion, S. Dak.: One-half sheet of ½-cent Cincinnati precancel stamps with five "OIHO" errors, proof sheet and a sample stamp of Vermillion, S. Dak. precancels (232124).

Christenson, L. W., Cleveland Heights, Ohio: 2 complete Japanese stamp booklets of 1899 and 4-volume specialized collection of 2-sen and 4-sen postage stamps of Japan, 1872-74 (233314, 233688).

Christie, Lansdell K., New York, N.Y.: Rigged model of brigantine sloop *Ferret* (231566).

Christie, Robert D. (See Historical Society of Western Pennsylvania)

Chuang, Dr. S. H., Singapore, Malaya: 100 Recent fossil brachiopods from the north coast of Singapore (231740).

Chudnoff, Martin (See Forest Research Station)

Churchill, Wylmer (See Carr Fastener Co.)

Cierezko, Dr. Leon S. (See Oklahoma, University of)

Cincinnati, University of, Cincinnati, Ohio: (Through Dr. Thomas K. Wilson) 39 slides of woods (234621, exchange).

Clain-Stefanelli, Mrs. Elvira, Washington, D.C.: 8 silver and copper coins of the world (232219).

Clain-Stefanelli, Dr. V., Washington, D.C.: 34 miscellaneous U.S. and foreign covers bearing postage stamps and postal meter impressions (234180, 236158).

Clark, Dr. Eugenie (See Cape Haze Marine Laboratory)

Clark University, Worcester, Mass.: Phanerogam (231221, exchange); (through Dr. Burton N. Gates) 76 ferns and 60 lichens from Massachusetts (232204, 233332).

Clarke, Dr. Arthur H., Jr. (See Canada, Government of)

Clarke, Dr. J. F. Gates, Washington, D.C.: 8 U.S. 2-cent envelopes, with various watermarks, revalued 6-cents for airmail use (236146).

Claudy, Carl H., Jr., Washington, D.C.: American flag and album associated with the Massachusetts gubernatorial campaign of 1913 (235934).

Claybourn, Mrs. Catherine J., Albert Lea, Minn.: Portrait lithograph of Abraham Lincoln in its original gilt frame, 1864 (231939).

Clement, B. E., Marion, Ky.: 9 minerals from Southern Illinois-Kentucky fluorspar mining district (232180).

Clement, Robert E., Chester Springs, Pa.: Radio receiver kit (235390).

Clements, D. Thomas (See United Nations Postal Administration)

Clench, Dr. William J. (See Harvard University)

Clifton Springs Sanitarium and Clinic, Clifton Springs, N.Y.: (Through C. D. Corwin, Jr.) Frick refrigeration compressor, 1898 (236002).

Cline, Howard F. (See Library of Congress)

Clinton, Daniel J., Annandale, Va.: Felt hat and pan-pipe from the Otavalo Indians of Ecuador collected by donor, 1946 (234980).

Cloake, T. Reginald, Collegeville, Pa.: Blouse of the early 1900's (233922).

Closs, Prof. Dr. D. (See *Universidade do Rio Grande do Sul*)

Cloud, Dr. Preston E. (See Interior, U.S. Department of the)

Coats and Clark Co., Warren, R.I.: (Through Frederick E. Lohse) group of die-cast slide fasteners (235960).

Cobbett, L. C. (See Albert and J. M. Anderson Mfg. Co.)

Cockrum, Dr. E. L. (See Arizona, University of)

Cohen, Dr. Daniel M. (See Interior, U.S. Department of the; Sea Fisheries Research Station, The; Verhoeff, Roger; Washington, University of)

Cointepoix, Robert R., West Palm Beach, Fla.: Manx shearwater (233474).

Colby, Susan, Washington, D.C.: Malayan post card, Kenya cover, and Spanish cover (234467).

Cole, Dr. Gerald A., Tempe, Ariz.: 21 amphipods, including holotype and paratypes (231129).

Colegio de La Salle, Vedado, Cuba: Fern and grass from Cuba (231030, 231046).

Colgate University, Hamilton, N.Y.: (Through Prof. Clement L. Henshaw) 17 items of physical and electrical apparatus (234695).

College of Physicians of Philadelphia, Philadelphia, Pa.: (Through Mrs. Ella N. Wade) 8 surgical instruments (235475).

Collette, Dr. Bruce B., Washington, D.C.: 14 crayfishes (233140). (See also Cornell University; and Miami, University of)

Collier, Frederick J., Alexandria, Va.: 20 mollusks from the Miocene of Rice's Pit, Hampton, Va. (235003).

Collins, Jeremiah (See Smithsonian Institution)

Collins, Robert (See Moore, Sewell P.)

Cologne, University of, Cologne, Germany: 11 phanerogams from Bolivia and Peru (233550).

Colorado School of Mines, Golden, Colo.: (Through Donald H. Johnson) 2 minerals from Colorado and Nevada (233776, exchange).

Columbia Specialty Co., Van Nuys, Calif.: (Through Ralph E. Becker) 2 plastic hats from the 1960 presidential campaign (236124).

Coluzzi, Dr. Mario, Rome, Italy: 14 mosquitoes from Italy and Somalia (235808).

Combs, Lee, Beverly Hills, Calif.: 2,568 State Decalcomania Revenue stamps known as the Lee Hefner Combs Memorial collection (234170); 1,715 city Decalcomania Revenue stamps (234822).

Commerce, U.S. Department of, Washington, D.C.: *Bureau of the Census*: (Through Louis J. Alexis) U.S. census enumerator's kit from the 1960 census, including ordinary enumerating materials (235937). *National Bureau of Standards*: (Through Carl F. Snyder) laboratory apparatus and equipment (231765). *Weather Bureau*: 3 psychrometers, radiosonde, and 3 pyrliometers (231230).

Commonwealth Institute of Entomology, London, England: (Through Donald Macfarlane) centipede from Australia (235800).

Commonwealth Scientific and Industrial Research Organization, Canberra, Australia: 266 phanerogams and 52 grasses from Australia (233679, exchange).

Communaute Europeenne de l'Energie Atomique, Brussels, Belgium: (Through Dr. L. Van Wambeke) 14 minerals (231904, exchange).

Compton, Henry (See Game and Fish Commission)

Condrashoff, Dr. S. F. (See Forest Biology Laboratory)

Conkin, Dr. James E., Louisville, Ky.: 167 Foraminifera from the Mississippian of southern Indiana, Ken-

tucky, northern Tennessee and south-central Ohio (235008).

Conklin, Mrs. Dora R. (See Interior, U.S. Department of the)

Conley, Blaine, Swan River, Minn.: Goethite from Mesabi Range, Itasca Co., Minn. (232903).

Connally, J. Ed., Abilene, Tex.: Engraved copy of President John F. Kennedy's Inaugural Address and a booklet on his State of the Union message (235647).

Connor, L. R. (See Hill Acme Co.)

Conover, Dr. Robert J. (See Woods Hole Oceanographic Institution)

Conrad, Lyle, McLean, Va.: 2 bats from Virginia and West Virginia (233833).

Continental Screw Co., New Bedford, Mass.: (Through F. K. Brown) Asa Cook thread shaving and chasing machines (235978).

Convers, Mrs. Olivia, Valle de Bravo, Mexico: 8 ferns from Mexico (231043).

Cooper, Dr. Edwin L. (See Cheng, Dr. Tien-Hsi)

Cooper, Dr. and Mrs. G. Arthur, Washington, D.C.: 1,000 invertebrate fossils from the Middle Devonian of Michigan and Ontario collected by donors (233034).

Cooper, S. L., Washington, D.C.: 3 scrap books containing ballots and clippings of the late 19th century and a volume "The Christian Minister's Affectionate Advice to a Married Couple," by Rev. James Bean (235646).

Copenhagen, University of, Copenhagen, Denmark: 52 phanerogams, 14 grasses, and 2 ferns from Greenland (234803, exchange).

Corcoran, Mrs. William J., Washington, D.C.: Fruit compote from the state china used during the administration of President James K. Polk (235648).

Cordes, Richard, White Plains, N.Y.: U.S. Army canteen cup, ca. 1898 (233991).

Corey, Bruce (See National Highway Post Office Society)

Corkum, Kenneth C., Baton Rouge, La.: Holotype of trematode worm (232980).

Cornell University, Ithaca, N.Y.: (Through Bruce B. Collette and Dr. Royal D. Suttkus) blind catfish from near San Antonio, Tex. (233289, exchange); (through Dr. William Erickson) Westinghouse generator alternator (231780); (through Prof. M. L. Nichols) 17 items of chemical apparatus and a hydraulic press (231262). *Bailey Hortorium*: 230 phanerogams and 527 photographs of phanerogams, types, from the Philip Miller Herbarium (231037, 236104, 236106, exchanges); 46 cryptogams from Arno Atoll (233545); 22 phanerogams and 1 fern from Peru and Mexico (234513, gift-exchange); (through Dr. Harold E. Moore, Jr.) 15 phanerogams (229195, 231038, gift-exchange).

Corny Institute Museum, Leningrad, U.S.S.R.: (Through Dr. V. D. Kolomensky) 341-gram mass of the Ochansk meteorite (233956, exchange).

Corothie, Dr. Harry (See Universidad de los Andes)

Corwin, C. D., Jr. (See Clifton Springs Sanitarium and Clinic)

Costa, John, Chicago, Ill.: Completed shell of a thin-wall Geiger-Mueller counter used in Fermi's first reactor and a similar shell slit longitudinally for examination (235634).

Courtais, Henri G., New York, N.Y.: Italian pottery vase made at Ginori factory, Doccia, early 19th century (233835).

Cowan, Dr. Clyde L., Jr., Bethesda, Md.: Reproduction of first oscilloscope traces showing first observation of Neutrino (232882).

Cox, Mrs. Gladys M., Reno, Nev.: Silk on linen sampler made by Hannah Hall, 1803 (233422).

Craighead, Frank C., Homestead, Fla.: Fern from Florida (234160).

Cramer, Mrs. P. B., Highland Park, Mich.: 13 precanceled stamps (233694).

Craven, Capt. John C. (See Defense, U.S. Department of)

Creighton, Dr. W. S., Rockport, Ontario, Canada: 36 ants from Ohio (232023).

Crile, Dr. and Mrs. George A., Jr., Cleveland, Ohio: 12 items from wreck site on Sombrero Reef, 1952 (231943); 83 objects from wreck of H.M.S. *Looe*, 1744 (231947).

Crocker, Mrs. Lispenard Seabury, Kittery Point, Maine: 551 historical and ethnological objects collected by donor (232559).

Crocker, Nellie, Washington, D.C.: Swiss watch (234471).

Cron, F. W., Washington, D.C.: Lighter, box of flints, and a box of razor blades (231078).

Crooks, William D. (See Eli Lilly and Co.)

Cross, Dr. Aureal T. (See Pan American Petroleum Corp.)

Cross, W. W., & Co. See W. W. Cross & Co.)

Crossley, Dr. D. A. (See Atyeo, Dr. Warren T.)

Croston, John, Silver Spring, Md.: Realgar on colemanite from Turkey and kyanite from India (231023); 3 minerals from Bolivia and Tennessee (235454).

Crow, Lady, Washington, D.C.: 2 parasols of the 19th century (230806).

Crown Agents, Washington, D.C.: (Through A. J. E. Davis) 213 mint postage stamps of various governments of the British Commonwealth (233692, 233728).

Cruxent, Prof. J. M. (See Museo de Ciencias Naturales)

Cuatrecasas, Dr. José, Washington, D.C.: 191 phanerogams from Brazil, Colombia, and Peru (232113, 234073, 235624).

Cunard Steam-Ship Co., Ltd., New York, N.Y.: (Through James C. Murray) scale model of M.V. *Britannic* (234382).

Cureton, F., II, Stockton, Calif.: 18 minerals from various localities (231916, 234683, exchanges).

Currie, Richard R., Johannesburg, S. Africa: 35 crustaceans (232665).

Curry, L. A. (See Mullard Limited)

Curtice, Kolbe, Herndon, Va.: 113 philatelic and numismatic items, a set of ivory-handled amputation instruments, 8 patents and matriculation tickets, and an original Naval Order of 1842 (231836).

Curtis, Karl, Gamboa, Canal Zone: (Through Dr. Alexander Wetmore) 3 pieces of Araucanian jewelry and a photograph (236018).

Cushman, Mrs. Helene, Washington, D.C.: Bird (230997).

Custis, Eleanor, Washington, D.C.: 13 items of costume of the early 20th century and a shawl of the mid-19th century (230606).

Cutter, Albert R., Encinitas, Calif.: Brilliant cut topaz, citrine briolette, and citrine (231161, 231899, 233677).

Dake, Dr. H. C., Portland, Oreg.: Tektite from Thailand (233268).

Dalager, Clarice, Alamo, Tex.: Cryptogam (229925).

Dalmat, Dr. Herbert (See Health, Education, and Welfare, U.S. Department of)

Damman, A. W. H. (See Canada, Government of)

Danish Postal and Telegraph Museum, Copenhagen, Denmark: (Through J. M. S. Anderson) Poulsen Arc wireless telegraph (227374).

Darcy Specialties Co., Inc., Los Angeles, Calif.: (Through Ralph E. Becker) 5 pieces of jewelry from the Republican 1960 campaign (236128).

Darling, Thomas, Washington, D.C.: 70 ferns from Florida, Pennsylvania, and New York (231044, 233037).

da Silva, Dr. Oswaldo J. (See Pan American Health Organization)

David, Claude, Leipsic, Ohio: Buick gasoline engine, 1902 (236000).

Davidson, Edward, Arlington, Tex.: 14 fossil crabs from the Cretaceous of Texas (233978, exchange); 3 invertebrate fossils from the Pennsylvanian and Lower Cretaceous of Texas (235462).

Davidson, Paul W. (See Defense U.S. Department of)

Davies, David S. (See Trenton, City of)

Davies, Douglas M., Hamilton, Ontario, Canada: 270 flies, including paratypes, from Canada (232103, 235019).

Davis, Mrs. A. E., Scranton, Pa.: Red Cross Nurse's Aid uniform worn by donor during 1918 (231483).

Davis, A. J. E. (See Crown Agents)

Davis, Mrs. Brooks, Tucson, Ariz.: 2 cerussites from Flux Mine, Santa Cruz Co., Ariz. (232592, exchange).

Davis, Douglas K., Falls Church, Va.: 1960-D penny (230867).

Davis, E. Hollister (See Davis, Steward G.)

Davis, Mrs. Edna, Washington, D.C.: Working model of a Harding election campaign souvenir, 10 tools and dies for making figures in metal, 3 unassembled metal parts, and examples of finished figures mounted on cards, 1920 (235387).

Davis, Everette R., Alexandria, Va.: 6 domestic hen eggs (green shell color) (230996).

Davis, Mrs. Hugh N., Jr. (See Virgin Islands Museum, Inc.)

Davis, Steward G. and E. Hollister, Washington, D.C.: Flag from staff of "Nellie Powell," flagship of the Major Powell Expedition through Colorado Canyon, 1872-74 (233559).

Dawson, Dr. C. E., Ocean Springs, Miss.: 12 plankton specimens and 2 fishes from the Persian Gulf (231170, 231237). (See also Gulf Coast Research Laboratory)

Dawson, Dr. E. Yale (See Beaudette Foundation for Biological Research)

Dawson, James C., Kirkwood, Mo.: 4 nickeliferous deweylite specimens from St. Louis Co., Mo. (231089).

Dawson, Dr. K. R. (See Canada, Government of)

Daystrom, Inc., Newark, N.J.: (Through Edward L. Klein) 32 early measuring instruments (235391).

Dean, Joseph, Daytona Beach, Fla.: Watch movement (232975).

De Bach, Dr. Paul, Riverside, Calif.: 140 chalcid flies, cotypes, from the Republic of Israel (235824).

Decker, Mrs. Jane McL., New Haven, Conn.: 60 microscope slides of wood (236109).

Defense, U.S. Department of: *Department of the Air Force:* (Through William L. Witt) mud shrimp (232351).

Department of the Army: (Through Capt. John C. Craven) 3 projectiles, anti-tank rifle grenade, hand grenade, practice rocket, cartridge, and anti-personnel mine (235563); (through Paul W. Davidson) philatelic cover carried by V-2 rocket, Feb. 1949 (233486); (through Dr. John J. Pratt, Jr.) 2 copepods (235270). *Army Medical Research Unit:* (Through Lt. Col. Hinton J. Baker) 29 snakes from Malaya (231093); (through Dr. H. Elliott McClure) 650 mosquitoes from Malaya (235818). *Medical Research and Development Command:* (Through Col. Robert Traub) 121 mammals from South Viet Nam collected by the U.S. Army Medical Research Unit (233129). *Office of the Surgeon General:* (Through Capt. Vernon J. Tipton) 100 mammals from Panama (231166).

Department of the Navy: 194 phanerogams, 3 grasses, and 6 ferns from Formosa and 116 reptiles (232116); inert Schenkl projectile (235560); (through Lt. Larry Shumacher) bathyscaphic "Trieste" power distribution board and water sample (235570).

Marine Corps: (Through Harold Johnson) 22 firearms and accessories (235947). *National Naval Medical Center:* (Through Rear Adm. Frank P. Kreuz) Van de Graaff generator (232962). *Naval Medical Research Units:* (Through Dr. Harry Hoogstraal) 3 ticks, including holotype, allotype, and paratype, from Jordan (234143); (through Dr. Robert E. Kuntz) 1,750 marine, fresh-water, and land mollusks, 21 crustaceans, 1,398 mammals, 1,599 birds, medusa, insects, reptiles, and fishes from various localities (225406, 233139, 233162, 235786); 57 phanerogams and 3 grasses from Egypt (204693); (through Dr. Robert E. Kuntz and Lt. Comdr. William H. Wells) 453 fresh-water fishes from Taiwan, also 6 crustaceans (232666). *Office of Naval Research:* (Through Charles R. Southwell) 185 wood speci-

mens mostly from Panama (232058). (See also Bishop Museum, Bernice P.)

DeFoliart, Dr. G. R., Madison, Wis.: 2 flies, allotype and paratype, from Wyoming (232036).

Degener, Dr. Otto, Waialua, Oahu, Hawaii: 75 phanerogams, 10 grasses, 9 ferns and 1 cryptogam from Guatemala, Mexico, the Pacific Islands, and western United States (232959, 235626).

De Gurse, John (See Smithsonian Institution)

de Hulster, Ir. I. A. (See Forest Service)

Deignan, Herbert G., Washington, D.C.: 1 Bird (234324).

de Jesus, Dr. Pablo I. (See Tupaz, Jose)

Delaney, Mrs. L. E. (See Richards, Mrs. Sarah Trone)

Delano, William Adams, Estate of: (Through Josephine B. Manning) papers and correspondence pertaining to William Adams Delano's activities, as consulting architect, on renovation of the White House, 1949-52 (235261).

de la Torre, Dr. Salvador L. (See Universidad de Oriente)

Del Noce, Aldo, New York, N.Y.: 25% of a block of four 2-cent "Lake Shade" Panama Pacific Exposition Issue, 1913 (Scott No. 398) (234470).

Demaree, Delzie, Hot Springs, Ark.: 556 cryptogams collected by donor (235221).

de Mattos, Prof. Ayrton (See Instituto de Historia Natural)

Dentan, R. (See American Rolex Watch Corp.)

Deoras, Dr. P. J. (See Haffkine Institute)

De Santis, Dr. Luis, La Plata, Argentina: Chalcid fly from Argentina (231699); 3 chalcid flies from Argentina (234017, exchange).

Desautels, Paul E., Washington, D.C.: 3 minerals from various localities (233944).

Dexter, Ralph W., Gloucester, Mass.: Stink bug, 3 leafhoppers, and 1 beetle larva (232680).

de Zayas, Ing. Fernando, Havana, Cuba: Holotype and allotype of 2 new species of insects from Cuba (234365);

12 undetermined centipedes, millipedes, and spiders from Cuba (235024).

Diakonoff, Dr. A. (See Rijksmuseum van Natuurlijke Historie)

Dickey, Mrs. Rose M., Washington, D.C.: Dress and apron, bridal costume of Russian peasant of old regime (230684).

Dickinson, Mrs. John A., Bethesda, Md.: 2 tack pullers, corkscrew, and an anvil (232224).

Dieke, Dr. G. H. (See Johns Hopkins University)

Dietrich, Prof. R. V., Blacksburg, Va.: 4 calciostrontianites and 2 palygorskites from Virginia (231022).

Dill, Capt. Andrew J., Jr., Milford, Del.: Guinea balance of the late 18th century (233078).

District of Columbia, Government of: (Through John B. Layton) 4 items used in the 1961 Inauguration (235053); (through Dr. A. Magruder MacDonald) 11 crania of American Negroes from an old cemetery, Washington, D.C., (232745).

Doane, Edith R., East Orange, N.J.: 29 articles for Rural Free Delivery Exhibit (234182).

Dobrotworsky, Dr. N. V., Victoria, Australia: 11 mosquitoes, including paratypes and associated larval and pupal exuviae, from Australia (230635).

Doby, Dr. J. M. (See Faculte Mixte de Medecine et de Pharmacie)

Dockstader, Frederick J. (See Ossining Public Schools)

Doering, Walter H. M., São Vicente, Brazil: Phanerogam (231548).

Doerr, Herbert, Philadelphia, Pa.: Dorient rug of about 1920 (231415).

Domrow, Dr. R., Brisbane, Australia: 14 slides of parasitic mites, paratypes, from Australia (234401). (See also Queensland Institute of Medical Research)

Don Marshall Co., Beverly Hills, Calif.: (Through Ralph E. Becker) 4 felt-decorated hairnets from the 1960 presidential campaign (236134).

Donaho, Rear Adm. and Mrs. Glynn R., Alexandria, Va.: 82 corals and 2 mollusks from Cebu and Luzon, Philippines (233827).

Donohue, Mr. and Mrs. A. J., Arlington, Va.: Envelope addressed to Sir Winston Churchill, envelope carried on Operation Deepfreeze 1957, and an envelope carried aboard the U.S.S. *Sea-dragon* on her polar transit, 1960 (234042).

Dorf, Dr. Erling (See Princeton University)

Douglas, B. M., Washington, D.C.: 2 rare obsolete notes issued in 1840 by The Chesapeake and Ohio Canal Co. (233049).

Dove Marine Laboratory, Cullercoats, Northumberland, England: (Through Dr. J. A. Allen) mollusk from off Northumberland, England (233911).

Downes, Dr. J. A., Ottawa, Canada: 14 midges (231006).

Drake, Dr. Carl J., Washington, D.C.: 66 miscellaneous beetles from the U.S. (233529); 80 miscellaneous foreign covers bearing postage stamps and meter impressions (234179, 236149).

Draper, Mrs. Irene E. (See Alsaker, Dr. R. L., Estate of)

Dreisbach, R. R., Midland, Mich.: 11 spider wasps, including allotype, paratype, and 9 holotypes, from North and South America (234608).

Dreyer, Mrs. Edith A., Albion, Mich.: 2 model French sabre bayonets and scabbards, 1866, and 2 State of Michigan medals for the War with Spain and Philippine campaign, 1898-1900 (231232).

Drouet, Dr. Francis (See Arizona, University of)

Drugg, Dr. Warren S. (See Carlquist, Dr. Sherwin)

Ducommun, J. C. (See Standard Oil Co.)

Dugand, Dr. Armando, Barranquilla, Colombia: 49 phanerogams and 10 grasses from Colombia (232804). (See also Instituto de Ciencias Naturales)

Duncan, Mrs. Evelyn Alexander, Fairfax, Va.: Double-woven geometric coverlet (233295).

Duncan, Scott, Rockville, Md.: Sea anemone (235282).

Dunn, Mrs. Arthur Wallace, Washington, D.C.: Naval officer's dress sword, scabbard, and sword knot

(231942); 10 accessories of costume of the late 19th and early 20th centuries (230604).

Dunn, V. Roger, Gulfport, Fla.: 14 marine mollusks from Queensland, Australia (234764).

du Pont, Willis H., Wilmington, Del.: 920 Russian coins and medals of Catherine I, Peter II, and Anne (228217).

Durand, Mr. and Mrs. Paul, Los Angeles, Calif.: 2 apatites from Brazil and Madagascar (236020).

Durgan, Henry, East Machias, Maine: Model of horizontal slide valve steam engine of the 19th century (234644).

Durham, Dr. J. Wyatt (See California, University of)

Durr, Mrs. George, Norwich, Conn.: Ives clock (231058).

Dutton, R. (See Minerva Oil Co.)

Dyer, Arthur J., Observatory (See Arthur J. Dyer Observatory)

Eads, Dr. Richard B. (See Health, Education, and Welfare, U.S. Department of; also Interior, U.S. Department of the)

Eastham, Frank D., Warsaw, Va.: Fossil crab from the Miocene of Virginia (233929).

Easton, Prof. A. H. (See Wisconsin, University of)

Ebeling, Alfred W. (See California, University of)

Echevarria, José E., Aguadilla, Puerto Rico: Block model of a Puerto Rican fishing sloop (236162).

Eclat Club, The, New York, N.Y.: (Through Dr. Fordyce B. St. John) silver cup (222321); (through Dr. Harvey Brinton Stone) allegorical painting associated with medical events and individuals (232427).

Edelstein, Dr. Sidney, New York, N.Y.: Analytical balance used by Walcott Gibbs (236092).

Edwards, E. H., Scranton, Pa.: Jigger bar (235031).

Edwin, Dr. Gabriel. (See Agriculture, U.S. Department of)

E. E. Souther Co., St. Louis, Mo.: (Through F. L. Ashworth) double seamer, beader, and a setter (235971).

Egglar, Dr. Willis A. (See Tulane University)

Ehrmann, Martin L., Beverly Hills, Calif.: 60 pounds of gem gravels and amber carving from Burma (234998, 235457). (See also Martin L. Ehrmann Co.)

Eichelser, Marie C. (See Flexner, Abraham)

Eichner, L. C., Clifton, N.J.: Ball bearing (232222).

Einhorn, Nathan R. (See Library of Congress)

Eisenhower, Dwight D., Washington, D.C. and Gettysburg, Pa.: Gold medal from Chile, gold medal and antique silver lamp from Brazil, 3 commemorative medals and a bronze replica of statue of Gaucho from Uruguay (230-340); model of Bucyrus-Erie stripping shovel (231557); carved wooden elephant presented to President Eisenhower by His Majesty Bhumibol Adubjadig of Thailand (232805); twin microphones used by President Eisenhower on his campaign tour Sept. 4-Nov. 4, 1952, and reading copy of his State of the Union message, delivered Jan. 7, 1960 (233913); 49-star U.S. National flag and Presidential standard (234125).

Eisenhower, Mrs. Dwight D., Gettysburg, Pa.: Dress, 2 pieces of jewelry, and purse used by Mrs. John Sheldon Doud at 1953 inaugural ball; photograph of Mrs. Doud; also pink organdy dress presented to Mrs. Eisenhower by the wife of the President of the Philippines, June 1958 (234630).

Eisentraut, Prof. Dr. M. (See Zoologisches Forschungsinstitut)

Eisner, Dr. Curt, The Hague, Netherlands: 8 butterflies from Japan and Korea (235841).

El-Chichini, Saad. (See United Arab Republic, Government of)

Eldred, Mrs. Bonnie. (See Florida State Board of Conservation)

Elegant Button and Novelty, Inc., Yonkers, N.Y.: (Through Ralph E. Becker) 2 "Lucky Coin" key chains from the presidential campaign of 1960 (233454).

Elgert, Gerald, Baltimore, Md.: (Through Dr. Clyde Reed) cooter turtle from Big Gunpowder Falls, Baltimore Co., Md., collected by donor (234094).

Eli Lilly and Co., Indianapolis, Ind.: (Through William D. Crooks) 5 pharmaceutical and medical items and 3 related Lilly publications, 1887-93 (233571).

Elliott, L. P., Peoria, Ill.: 290 Peoria, Ill., precanceled postage stamps (234637).

Emory University, Atlanta, Ga.: (Through Dr. W. D. Burbanck) 86 marine invertebrates (231603, 233730).

Entomological Research Center, Vero Beach, Fla.: (Through Nina Branch) 10 mosquitoes, including allotypes, holotypes, and paratypes, from Bahama Islands along with 17 associated slides (235838).

Entomological Research Institute, Ottawa, Ontario, Canada: (Through Edward C. Becker) 2 click beetles from North America (232022, exchange).

Erdtman, Prof. G. (See Palynological Laboratory)

Erickson, Dr. William (See Cornell University)

Ernest Scott and Co., Inc., Fall River, Mass.: (Through R. A. Hentershee) 2 countershafts (234025).

Erskine, Lillian, Chautauqua, N.Y.: Indian beaded necklace from Stockbridge, Mass. (235912).

Esso Standard (See M. W. Kellogg Co.)

Estación Experimental Agronómica, Santiago de las Vegas, Cuba: (Through Ing. Julián Acuña) 22 phanerogams from Cuba (231716).

Estacion Nacional de Entomologia, La Cruz, Chile: (Through Sergio Rojas Poblete) 6 beetles from Chile (222749).

Evans, Dr. and Mrs. Clifford, Jr., Washington, D.C.: Gas lighting fixture, 2 hand turned flower pots and a cast flower pot (235048).

Evans, Dr. Howard E., Cambridge, Mass.: 27 wasps from Central and North America (232581, 233283, 234953).

- Evans, John C.**, Arlington, Va.: 60 airmail covers and maps (232973).
- Evans, Mrs. M. E.**, Arlington, Va.: silk airmail flag, 1925 (232972).
- Everett, W. W.**, Alden, Pa.: Davy safety lamp (234626).
- Everhart, Dr. W. Harry** (See Maine, University of)
- Ever-Ready Lace and Textile Co.**, Jersey City, N.J.: (Through Ralph E. Becker) 4 Democratic and 4 Republican cloth emblems from the 1960 elections (235931).
- Experiment Station of the Hawaiian Sugar Planters' Assoc.**, Honolulu, Hawaii: (Through John W. Beardsley) 14 small moths from Hawaii (235815).
- Faculdade da Farmácia**, Curitiba, Paraná, Brazil: 187 phanerogams, 1 grass, and 9 ferns from Brazil (233925).
- Faculte Mixte de Medecine et de Pharmacie**, Rennes, France: (Through Dr. J. M. Doby) 33 black flies from France (234359, exchange).
- Fain, Dr. A.**, Anvers, Belgium: 14 slides of parasitic mites from Africa (235816).
- Faircloth, Wayne**, Whigham, Ga.: Fern from Georgia (231522).
- Falck, J. Stanley**, Chevy Chase, Md.: 6 pharmaceutical items most of which were used by donor's father in the 1890's (232068).
- Falla, Dr. R. A.** (See Atyeo, Dr. Warren T.)
- Fannin, Oliver W., Jr.** (See Renfro, Mrs. Ruby F., Estate of)
- Fantel, Robert**, Great Neck, N.Y.: "Nixon for President" campaign badge manufactured by donor's firm (235047).
- Fargo, William G.** (See Locklin, Charles R.)
- Farrell, Dr. Charles E.**, Nashville, Tenn.: 37 mites, including 10 holotypes and accompanying slides, from eastern U.S. (232021).
- Feeney, Walter B.**, Irvington, N.J.: 26 miscellaneous philatelic covers and memorabilia (234187).
- Feinstein, Bernard R., and Lange, Kenneth I.**, Washington, D.C.: 70 mammals and 3 birds from Maryland and Virginia (236043).
- Fellows, Dr. F. F.**, West Linn, Ore.: 54 items of Eskimo materials collected by donor, 1908 (231572).
- Fellows Gear Shaper Co.**, Springfield, Vt.: (Through E. W. Miller) Fellows gear shaper no. 6 (234649).
- Fennell, Chester M.**, San Francisco, Calif.: 3 birds (234325).
- Ferreyra, Dr. Ramón** (See Museo de Historia Natural "Javier Prado")
- Fewster, Mrs. Doris M.**, Providence, R.I.: Cover issued at "Stampex," London, 1959, autographed by Britain's Stamp Queen (232754).
- Fields, Mrs. Lenore Straus, Straus, Edith Gutman, and Straus, Ada Gutman**, Baltimore, Md.; Layette and 2 baby chemises (233475).
- Fiji Islands, Government of: Geological Survey Department:** (Through Dr. R. E. Houtz) 4 casts of brachiopod from the Tertiary of Fiji (231012).
- Filatova, Dr. Z. A.** (See Academy of Sciences of the U.S.S.R.)
- Finks, Dr. Robert W.**, Brooklyn, N.Y.: 4 unidentified Bryozoans from Highland Mills, and 7 invertebrate fossils from Esopus formation, Highland Mills, N. Y. (235010).
- Finley, James**, Beltsville, Md.: casketed cover commemorating the 100th anniversary of the commissioning of A. Lincoln, Postmaster, New Salem, Ill., 1933 (234191).
- Fireman, Dr. Edward L.**, Cambridge, Mass.: Aluminum oxide crucible (235638).
- Fischer, Dr. Alfred G.**, Princeton, N.J.; 200 brachiopods from the Permian of Wyoming (233816).
- Fischer, Dr. Max** (See Naturhistorisches Museum)
- Fiscus, Clifford H.** (See Interior, U.S. Department of the)
- Fisher, C. C.** (See Ford, John W.)
- Fisher, Dr. D. J.** (See Kashkai, Prof. Mir-Ali)
- Fisher, Dr. James**, Houghton, Mich.: X-ray tube and 3 photographic plates (232897).
- Fitzgerald, James H.** (See Pharmaceuticals, Inc.)

Fitzgerald, Warren (address unknown): Fish from Lee County, Va. (233524).

Fitzmaurice, John, Washington, D.C.; 4 pyrrhotites from Rockville, Md. (235455, exchange).

Fleetwood, Raymond J. (See Interior, U.S. Department of the)

Fleming, Richard Bland Lee, Children of, Fauquier Co., Va.: (Through Roberta Fleming) Masonic uniform (232045).

Fleming, Roberta (See Fleming, Richard Bland Lee, Children of)

Fleminger, Dr. Abraham (See Scripps Institution of Oceanography)

Flexner, Abraham (deceased): (Through Marie C. Eichelser) personal memorabilia of Abraham Flexner (236094, bequest).

Flint, Dr. Oliver, Washington, D.C.: 1,096 miscellaneous insects from the U.S. and 13 Arachnida, Diplopoda, and Chilopoda from the U.S. and Mexico (235892); 5 insects from Texas (234607); 500 caddisflies and stoneflies from New York and Virginia and 3 ground beetles from Texas (235804); 8 caddisflies, including holotypes, allotypes, and paratypes, from North Carolina and Tennessee (235836).

Florence, University of, Florence, Italy: (Through Dr. Benedetto Lanza) 31 salamanders, including paratype, from Italy (233748, exchange); (through Dr. Alberto Simonetta) 15 skeletons of European birds (233810, exchange).

Florida, State Plant Board of, Gainesville, Fla.: (Through Dr. Howard V. Weems, Jr.) 100 millipedes from Costa Rica (235801).

Florida, University of, Gainesville, Fla.: Phanerogam and 2 grasses (231550, 233043, 235620); (through E. A. Joyce, Jr.) 6 hydroids (234554).

Florida State Board of Conservation, St. Petersburg, Fla.: (Through Mrs. Bonnie Eldred) 10 shrimps (232140, 232164); (through Andrew J. McErelean) pectoral fin of a fish (235589); (through Dr. Victor G. Springer) 25 gorgonians and 5 fishes (232484, 233787).

Florida State Board of Health, Vero Beach, Fla.: (Through Mrs. Eleanor S. Harrington) 2 brackish-water snails from Florida (235102).

Florida State University, Tallahassee, Fla.: 75 phanerogams, 2 grasses, and 4 ferns (234802, exchange); (through Thomas L. Hopkins) 355 copepods (232277); (through Charles E. King), 6 tanaisids, including holotypes and paratypes, from Florida (235352).

Folinsbee, Dr. R. E. (See Alberta, University of)

Follett, W. I. (See California Academy of Sciences)

Foote, B. A., Moscow, Idaho: 19 freshwater snails from Idaho (230624).

Ford, E. J. (See Agriculture, U.S. Department of)

Ford, Everett W., Fairbanks, Alaska: Mammoth tooth from Goldstream Creek, near Fairbanks, Pleistocene of Alaska (234566).

Ford, John W., Youngstown, Ohio: (Through C. C. Fisher) 22,116 Ohio Local precancel stamps (233770).

Ford, Reuben, Washington, D.C.: Souvenir pocket watch from campaign of Theodore Roosevelt and William McKinley of 1900 (231225).

Ford, William. (See Hoggson and Pettis Co.)

Forest Biology Laboratory, Vernon, B.C., Canada: (Through Dr. S. F. Condrashoff) 20 gall midges from Canada (234014).

Forest Research Institute, Kepong, Selangor, Malaya: (Through P. K. Balan Menon) 966 microscope slides of Malayan woods (234622, exchange).

Forest Research Institute, Pretoria, Union of South Africa: (Through Dr. J. H. van Wyk) 72 woods (235630, exchange).

Forest Research Station, Ilanoth, Nathanya, Israel: (Through Martin Chudnoff) 62 woods (233762, exchange).

Forest Service, Paramaribo, Suriname: (Through Ir. I. A. de Hulster) 27 wood samples (233681, exchange).

Forgy, Fred, Oakland, Calif.: Token commemorating the life of Martin Van Buren (231519).

Fosberg, Dr. F. R. (See Interior, U.S. Department of the)

Fox, Carl L., Jr., Atlanta, Ga.: Miscellaneous phosphates from Indian Mountain, Ala. (233452).

Frandsen, Dr. John C., Grantsville, Utah: Holotype and allotype of a nematode worm from Utah (230872).

Franklin and Marshall College, Lancaster, Pa.: (Through Prof. R. I. Weller) Melloni thermopile and 5 wooden apparatus stands (233467).

Frazier, Arthur H. (See Interior, U.S. Department of the)

Frazier, Henry B., III (See Goodwin, Andrew)

Fredrich, Leon A., Portland, Oreg.: Squirrel and skeleton of an albatross (235783).

Freeman, H. Avery, Garland, Tex.: 2 paratypes of butterflies from Mexico (235893).

Freude, Dr. H. (See Zoologische Sammlung des Bayerischen Staates)

Fricke, Charles A., Philadelphia, Pa.: Specialized study of the first postal card of the U.S., 1873-75, consisting of 23 postal cards and 17 copyrighted pages of historical and philatelic data (234192).

Friedberg, Robert, New York, N.Y.: Obsolete bank bill, issued by the Warwick, Rhode Island, bank, 1857, bearing an overprint "Broken Bank" (231490).

Friedersdorff, Mrs. C. C., Jr., Highland Falls, N.Y.: Sioux feathered head-dress in memory of donor's father, Egbert J. Armstrong (234979).

Frost, Robert, Cambridge, Mass.: Copy of Robert Frost's poem "The Gift Outright," written out for the inauguration of President John F. Kennedy and inscribed to the Smithsonian Institution (234213).

Frost, Dr. S. W., University Park, Pa.: 8 scarab beetles from Florida (232031). (See also Pennsylvania State University)

Frymire, Prof. Grady P., Guayaquil, Ecuador: 318 miscellaneous insects and arachnids and 8 reptiles from Ecuador (229314, 231214, 232024, 233145).

Fryxell, Roald. (See Ginkgo Petrified Forest Museum)

Fukuda, Dr. Akira, Hachinohe, Aomori Pref., Japan: 6 beetles from Japan (231927, exchange).

Fuller, Robert S., Grand Cayman, B.W.I.: 2 land snails from Grand Cayman Islands (230778).

Furlong, Rear Adm. W. R., Washington, D.C.: Japanese submarine torpedo gyroscope and silver service from U.S.S. *Oklahoma* (234065).

Furnish, Dr. W. M. (See Miller, Dr. Arthur K.; and Iowa, State University of)

G. E. Prentice Mfg. Co., Kensington, Conn.: (Through Prentice Troup) collection of dies for production of buckles and a group of slide fasteners (235975).

Gabrielson, Dr. Olaf (See Naturhistoriska Riksmuseet)

Gale, Dr. William V., San Clemente, Calif.: Cannon ball associated with Gen. Sullivan's Indian campaign of 1779 (234463).

Galena Historical Society, Galena, Ill.: Dress of the period 1858 (233876).

Galindo, Dr. Pedro, Panama, Republic of Panama: 4 holotypes, 1 allotype, and 6 paratypes of mosquitoes from Panama (234146).

Gallardo, Dr. Ariel (See Scripps Institution of Oceanography.)

Game and Fish Commission, Rockport, Tex.: (Through Henry Compton) 2 stomatopods (235312).

Game and Fish Commission of Texas, Seabrook, Tex.: (Through Dr. Jon K. Shidler) 9 pelecypod mollusks from San Antonio Bay, Calhoun Co., Tex. (233106).

Garber, Paul E., Washington, D.C.: Photographic reproduction of an original contemporary water color of the U.S.S. *Wyoming* (232118).

Garratt, G. R. M. (See Science Museum)

Garvan, Dr. Anthony N. B., Spring House, Pa.: Iron column designed by Louis Sullivan in the 1880's (235644).

Garvan, Mrs. Francis P., New York, N.Y.: 2 chests, 2 oil paintings by E. L.

Henry, and an oil painting by Thomas Birch (233723).

Gasche, Dr. E. (See Naturhistorisches Museum)

Gates, Dr. Burton N. (See Clark University)

Gates, Dr. G. E., Bangor, Maine: 10 earthworms (234673).

Geil, E. H., Arlington, Va.: Puma skeleton from a West Virginia cave (228536).

Geiss, J. (See Bern, University of)

General Electric Co., Cleveland, Ohio: (Through Alston Rodgers) 2 fluorescent lamps and a mercury-vapor lamp (232822).

General Services Administration, Washington, D.C.: 9 watches (231059, 236070); diamond, ruby, and sapphire bracelet and ring; diamond ring; diamond and platinum bracelet (231905, 233266, 235456); 142 miscellaneous gems, watch, and 2 gold bands (235330); diamond bracelet, 5 gold rings, stickpin, man's dental bridge, gold watch and chain, and 8 miscellaneous old Chinese coins (235380); earrings, bracelet, and necklace, all of jade and diamonds in white gold (235442).

Gentry, Joseph W., Tunis, Tunisia: 100 fruit fly adults from Tunisia (235821).

Georgetown University, Washington, D.C.: (Through Father Francis J. Heyden) 13 lithographs of astronomical phenomena and bodies (231962).

Georgia, University of, Sapelo Island, Ga.: (Through Dr. George H. Lauff) 9 acorn worms (235502); (through Dr. John M. Teal) 52 marine invertebrates (216505).

Gerber, Carl B., Arlington, Va.: Quartz from Ozark-Mahoning Mine, near Cave-in-Rock, Ill. (233821).

Géry, Dr. J. R., Briey, France: (Through Dr. Herbert R. Axelrod) fish, holotype from northeastern Brazil (235028).

Gessner, Mr. and Mrs. Edward H., Washington, D.C.: Spanish leather trunk of the 18th century (232951).

Gettysburg College, Gettysburg Pa.: (Through Prof. Richard T. Mara) 4 pieces of physical apparatus (235480).

Gilbert Clock Co., Winsted, Conn.: (Through Charles Arnold) pinion turning machine (235980).

Gilbert, Dr. Perry W., Ithaca, N.Y.: Shark's tooth (232471).

Gill, Howard (See Northfield Knife Co.)

Gill, Dr. Tom, Washington, D.C.: 28 woods of Ghana and 20 woods from Taiwan, China (232877, 232881).

Gilmore, John G., Alexandria, Va.: Korean packboard, basket, and stick-cane (234981).

Ginkgo Petrified Forest Museum, Vantage, Wash.: (Through Roald Fryxell) fossil wood from the Ginkgo Petrified Forest State Park, Vantage, Wash. (234130).

Ginzton, E. L. (See Stanford University)

Giordano, Dr. G. (See Centro Nazionale del Legno)

Gisin, Dr. Hermann (See Museum d'Histoire Naturelle)

Glass, Jewell, Washington, D.C.: Helvite from Sweden (234601).

Gleason, Cedric, Washington, D.C.: 2 serpentines from Rockville, Md. (231682).

Glover, Lt. Billy F., Fayetteville, N.C.: Silver coin, 1652, from Germany (231752).

Goetschises, Mrs. Isabel M., Bohemia, L.I., N.Y.: 2 marine cable messages, marine cable galvanometer mirror, Indian needle case, and 3 military insignia (229311).

Goin, Dr. Coleman J. (See Tamsitt, Prof. J. R.)

Goodbody, Dr. Ivan (See University College of the West Indies)

Goodman, John B. (See American Oil Co.)

Goodwin, Andrew, Dumfries, Va.: (Through Henry B. Frazier, III) counterfeited stamp of Romania (232693).

Gordon, Mrs. Frances, Worcester, Mass.: Cornet and case (232422).

Gordon, Henry L., Derby, Conn.: Knitting machine of the late 19th century (235955).

Gorgas Memorial Laboratory, Panama, Republic of Panama: 25 bird skins from Panama (229945, 233224);

(through Dr. Phyllis T. Johnson) 244 insects from Panamanian mammals (234151, exchange); (through Eustorgio Mendez) 9 bird skins and holotype and allotype of 2 fleas from Panama (231700, 234020).

Gotthardt, Howard (See Otis Elevator Co.)

Gould, Dr. Douglas, Washington, D.C.: 3,000 slides of chiggers from North America (235832).

Grace Line Inc., New York, N.Y.: (Through Frederic P. Sands) model of passenger liner *Santa Paula* (236164).

Graf, A. B., Rutherford, N.J.: Photograph and 2 cultivated ferns (233429).

Graham, Dr. David Crockett, Englewood, Colo.: 2 Chinese scrolls (229130).

Graham, Mrs. W. E., Madeira Beach, Fla.: Quilted counterpane, 1836 (231271).

Grantham, Billy J. (See Mississippi Game and Fish Commission)

Grau, Gilbert, Los Angeles, Calif.: 2 mollusks, paratypes, from California, Guadalupe Islands, Mexico (232014, exchange).

Gray, Milton B., Woods Hole, Mass.: 6 mud shrimps (234003); (through Dr. George H. Lauff) 3 mud shrimps (235129); (through Dr. Marian H. Pettibone) 5 crustaceans (232421).

Great Britain, Government of: British Museum (Natural History): 135 Recent Foraminifera from British localities; 330 phanerograms and 39 grasses (230945, 233041, exchanges); (through Dr. M. H. Hey) legrandite, type, from Flor de Peña Mine, Lampazos, Nuevo Leon, Mexico (232178, exchange); (through Dr. L. B. Holthuis) scyllarid lobster (232548); (through G. J. Kerrich) 13 Hymenoptera, including 5 paratypes, from Australia, Java, and the U.S. (209080, exchange); (through Dr. Norman B. Marshall) fish, paratype, from the John Murray Expedition (225409, exchange).

Greeley, Dr. John R. (See Hays, Dr. Robert C.)

Green, H. O. (deceased): 2 Atlantic horned larks, types (235011).

Greguss, Dr. Pal (See Institutum Botanicum Universitatis and Universitas Szeged)

Gressitt, J. Linsley, Honolulu, Hawaii: 24 toad bugs from New Guinea (230834).

Grice, Dr. George D., Jr. (See Woods Hole Oceanographic Institution)

Griesbach, John, Wheaton, Md.: 4 minerals from Montgomery Co., Md. (235453).

Griffin, Harold H., Arcadia, Calif.: 508 precanceled stamps (234639).

Griffiths, Dr. D. C., Newcastle-upon-Tyne, England: 8 aphid parasites from Europe (233830).

Grimes, Ronald Mason, Lanham, Md.: Surveyor's transit (235075).

Grimm, Frank W., Catonsville, Md.: 2 beetles and 15 larvae, 60 fresh-water snails, 2 reptiles, 140 marine invertebrates, and 9 paratypes of two new species of land snails (226078, 228739).

Grodhaus, Gail (See California Department of Public Health)

Grogan Photo Co., Danville, Ill.: (Through Ralph E. Becker) 4 photographic campaign items used in the 1960 elections (235928).

Gross, Dr. G. F. (See South Australian Museum)

Guam Department of the Interior, Agaña, Guam: (Through Marcellus Graeme Boss) 2 latte stones from Guam (230737).

Gulf Coast Research Laboratory, Grand Isle, La.: (Through Mr. C. E. Dawson) Callianassid (231203).

Gulick, Clarence M., Oakland, Calif.: U.S. Marine Corps sergeant's dress uniform of World War I and a Good Conduct Medal (233564).

Gulick, Mrs. J. Halsey, South Casco, Maine: 9 precanceled stamps (234196).

Gunnell, E. Mitchell, Denver, Colo.: 2 minerals from Colorado (231902, exchange).

Gurney, Dr. A. B., Washington, D.C.: 547 miscellaneous insects collected in Pennsylvania, Maryland, Virginia, and West Virginia, and 980 miscellaneous insects from Puerto Rico (234019, 235802).

Gurry, John V. (See Orinoka Mills, The)

Gutherz, Dr. Elmer J. (See Interior, U.S. Department of the)

H-B Instrument Co., Philadelphia, Pa.: (Through Val. Hiergesell) 3 deep-sea thermometers (235074).

Habermehl, R. H. (See Treasury, U.S. Department of the)

Hackman, Dr. Walter (See Museum Zoologicum Universitatis)

Haderlie, Dr. E. C., Monterey, Calif.: Cestode worm taken from a fish from California (232768).

Haffkine Institute, Parel, Bombay, India: (Through Dr. P. J. Deoras) 7 carpet vipers from Jamsande, Bombay, India (231776).

Haiti, Government of, Port-au-Prince, Haiti: (Through Agence Philatelique Haitienne) 74 mint postage stamps and first day covers of Haiti (233698, 236145).

Hake, Theodore R., York, Pa.: 3 starfishes from the Ordovician of Swatara Gap, Pa. (235492).

Hale, Dr. H. M. (See South Australian Museum)

Hall, Dr. E. Raymond (See Kansas, University of)

Hambleton, E. J., Washington, D.C.: 270 phanerogams, 37 grasses, and 11 ferns from Virginia (235615).

Hamelly, Henry, Grove City, Pa.: 57 first day covers of Canada, United Nations, and the U.S. (233847, 236140).

Hamilton, Col. Charles S., Washington, D.C.: 700 mint postage stamps of Mexico (234200).

Hamilton College, Clinton, N.Y.: (Through Prof. G. H. Cameron) hand electrostatic machine (234642).

Hamlin, William H., Oildale, Calif.: 2 holotypes and 2 paratypes of Foraminifera from the west coast of the U.S. (231897).

Hanahan, Jack, Belmont, N.C.: Axinite from North Carolina (232179); raspite from Proprietary Mine, N.S.W., Australia (235408, exchange).

Hand, Dr. Cadet (See Portobello Marine Biological Station)

Handley, Dr. Charles O., Jr., Washington, D.C.: 27 small mammals from Maryland and Virginia (236038).

Handley, Charles O., Sr., Charleston, W. Va.: 4 mammals from Virginia and West Virginia (236037).

Handy Hanky, Inc., Niagara Falls, N.Y.: (Through Ralph E. Becker) 18 false-pocket handkerchiefs from the 1960 presidential campaign (235930).

Hane, Lt. Col. and Mrs. John R., Annandale, Va.: Kiushiu green pheasant, mounted (231408).

Hanihara, Dr. Kazuro (See Sapporo Medical College)

Hanzawa, Dr. Shôshirô (See Tôhoku Imperial University)

Hardie, Robert (See Arthur J. Dyer Observatory)

Hardy, Dr. D. Elmo, Honolulu, Hawaii: 4 insects, worldwide (231004); 40 flies, including 6 holotypes, from Hawaii (232025).

Harless, William H., East Moriches, N.Y.: 2 models of sail scooters (236176).

Harmston, Dr. Fred C., Greeley, Colo.: 221 Diptera and 2 Coleoptera from North, Central, and South America (235889).

Harnwell, Mrs. Gaylord P., Philadelphia, Pa.: 25 items of costume from the Harral-Wheeler house of the 19th century (234864).

Harrington, Mrs. Eleanor S. (See Florida State Board of Health)

Harrison, W. H. (See Aluminum Co. of America)

Harrison, William H., Jr., Rosiclare, Ill.: 6 fluorites from Alcoa fluorspar mine, Rosiclare, Ill. (234599).

Hart, David (See Patent Button Co.)

Hart, Milton, Mamaroneck, N.Y.: 670 Brazilian airmail stamps (233640).

Hartman, Dr. Frank A., Columbus, Ohio: 5 bird skins (232006).

Harvard University, Cambridge, Mass.: 26 miscellaneous mollusks (235790, exchange); (through Dr. William J. Clench) 26 mollusks (233438, exchange); (through Dr. Rolla M. Tryon) 8 miscellaneous ferns (234069,

exchange). *Arnold Arboretum*: 110 plants (233044, exchange). *Gray Herbarium*: 258 phanerogams and 360 ferns (189848, 232197, exchanges). *Museum of Comparative Zoology*: (Through Dr. W. L. Brown) 9 ants from America, Australia, and Ceylon (232020); (through Dr. Herbert W. Levi) 12 centipedes from Colorado (234008); 9 centipedes from Pacific Islands and the U.S. (235594, exchange).

Harvey, Oswald L., Silver Spring, Md.: 9 photographs of stamps and type-script sheet listing basic printing methods (231057); presentation album, souvenir program, and 2 photographs issued on the occasion of the 4-cent American Women stamp; also 114 miscellaneous philatelic publications (231757); envelope with incorrectly dated meter cancellation (234047).

Hashimoto, Dr. H. (See Shimoda Marine Biological Station)

Hastings, Athenia Belknap, Estate of: (Through John F. Hastings) 6 uniform items, 2 British service medals, and a glass decanter (227309, bequest).

Hastings, John F. (See Hastings, Athenia Belknap)

Hatch, Dr. M. H., Seattle, Wash.: 6 scarab beetles from Washington State (234021).

Hatschbach, Dr. Gert, Curitiba, Parana, Brazil: 153 phanerogams, 43 ferns, and 13 grasses from Brazil (181516, 230843, 231521, 232348, 233647, 234320).

Hatten, Charles W. (See Pan American International Oil Corp.)

Hattori Botanical Laboratory, Obi, Nichinan-shi, Japan: 150 cryptogams from Japan (231555, 233463, exchanges).

Haviland, Frederick (See Haviland and Co., Inc.)

Haviland and Co., Inc., New York, N.Y.: (Through Frederick Haviland) 46 engraver's proofs and color transfers used by donor in making Hayes White House china (231180).

Hawaii, University of, Honolulu, Hawaii: 7 grasses from Hawaii (231234); (through Dr. J. E. Alicata)

8 fresh-water snails from Hawaii (230319); (through Alan Lewis) 55 parasitic copepods, including 15 types (231377); (through Spencer Tinker) 3 fishes from Oahu, Hawaii (232607, exchange).

Hawkes, Alex D., Coconut Grove, Fla.: Orchid from Panama (232875).

Hawkins, Mrs. Helen W., Haleyville, Ala.: Fern from Alabama (234457).

Hayes, John J. (See Morse Twist Drill and Machine Co.)

Hays, Mrs. Dorothy, Des Moines, Iowa: Groutite from Cuyuna Range, Crosby, Minn. (232177).

Hays, Dr. Kirby L., Auburn, Ala.: 2 flies, paratypes, from Alabama (235018).

Hays, Raymond, Jr., Washington, D.C.: 15 mollusks from Tertiary of Cape Arago, Oreg. (235463).

Hays, Dr. Robert C., Albany, N.Y.: (Through Dr. John R. Greeley) parasitic isopod (232792).

Hayward, Richard N., Curundu, Canal Zone, Panama: 58 fossil echinoids from the Eocene of Panama (232089).

Headman, Francis W., Knoxville, Tenn.: Revolutionary War militia flag carried by Francis William Headman at the battles of Trenton and Germantown, and handed down father to son to present donor (235383).

Health, Education, and Welfare, U.S. Department of, Washington, D.C.: *Public Health Service*: (Through Dr. Richard B. Eads) 2,000 slides, comprising the Strom collection of Aphidae (232100); (through Dr. Glen M. Kohls) 9 ticks, paratypes, from Washington State (234610). *Arctic Research Center*: (Through Dr. Laurence Irving) 6 rosy finches and 2 loons (234138); (through Dr. Robert Rausch) 2 bird skins, 1 egg, 7 wolverine skulls, and a shrew (232008, 232936). *Communicable Disease Center*: (Through Dr. Harry D. Pratt) 4 slides of lice from Arizona, paratypes (234148). *National Institutes of Health*: (Through Dr. Herbert Dalmat) 31 bats from Guatemala (232004); (through Dr. Robert J. Huebner and R. S. Peterson) 79 house

mice from New York City (234867). *Middle America Research Unit*: (Through Dr. Conrad Yunker) 22 hermit crabs, a bat from Quebec, and 5 rodents and marsupials from the Canal Zone (231201, 232953, 235897). *Rocky Mountain Laboratory*: (Through Dr. J. Frederick Bell) 30 bats from Idaho and Montana (225461); (through Drs. Eleanor K. Jones and James M. Brennan) 41 slides of chiggers, types, worldwide (234007).

Hedgpeth, Dr. Joel W. (See Pacific Marine Station)

Heidecker, Eric, Arcadia, Australia: (Through Dr. Ellis L. Yochelson) 8 mollusks from the Devonian of North Queensland (231016).

Heilman, Robert A., Lebanon, Pa.: 2 mosses collected by donor (233877).

Heim, Prof. Roger (See Museum National d'Histoire Naturelle)

Heinrich, Gerd, Dryden, Maine: 5 wasps from the U.S. (230212, 231620, exchanges).

Henbest, L. G., Washington, D.C.: 5 orthoclase samples from Colorado, on the north bank of the Arkansas River (231688).

Henderson, E. P., Washington, D.C.: Specimens of the Stannern, Czechoslovakia, meteorite and the Aroos, Azerbaijjan, meteorite (231917, 231918).

Henderson, William, Mt. Pleasant, Utah: Miner's oil lamp with shield and oil cap lamp (235036).

Hendrick, Joseph L. (See Ossining Public Schools)

Henry, Dr. Dora, Seattle, Wash.: 30 barnacles, including holotypes and 2 paratypes (232928).

Henshaw, Prof. Clement L. (See Colgate University)

Hentershee, R. A. (See Ernest Scott and Co., Inc.)

Heqvist, Dr. K. J. (See Royal Swedish Museum of Natural History)

Heraldic Art, Cleveland, Ohio: Silver medal commemorating the Pony Express Centennial (232476); 2 commemorative medals honoring the Boy Scouts of America and Pioneer Inventions, issued in 1960 (235057).

Herbário "Barbosa Rodrigues," Itajaí, Santa Catarina, Brazil: 354 phanerogams and 12 grasses from Brazil (231516, 231979).

Herbarium Bogoriense, Bogor, Indonesia: 1,286 phanerogams and 1 fern (233554, exchange).

Herber, Dr. E. C., Carlisle, Pa.: 77 fresh-water mollusks from Lake Coatepeque, El Salvador (229078).

Herbier Marie-Victorin de l'Université de Montréal, Montreal, Quebec, Canada: 791 phanerogams, 71 grasses, and 44 ferns from Canada (235616, exchange).

Hermann, Dr. F. J., Adelphi, Md.: 49 phanerogams and 2 grasses (235617). (See also Agriculture, U.S. Department of)

Herpich, William M. (See Progressive Manufacturing Co.)

Hertlein, Dr. Leo G. (See California Academy of Sciences)

Hey, Dr. M. H., London, England: 2 samples of Libyan Desert glass tektite (231697). (See also Great Britain, Government of)

Heyden, Father Francis J. (See Georgetown University)

Hicks, Dr. W. D. (See Ontario Department of Mines)

Hiergesell, Val. (See H-B Instrument Co.)

Higginbotham, Jeff (See Stabler, Hugh V.)

Hilberry, Dr. Norman (See Argonne National Laboratory)

Hilbert, Dr. G. E. (See Agriculture, U.S. Department of)

Hill Acme Co., Cleveland, Ohio: (Through L. R. Connor) forging machine and print of color film (235032).

Historical Society of Western Pennsylvania, Pittsburgh, Pa.: (Through Robert D. Christie) model underground steam locomotive used in the Hartley-Marshall mine (235973).

Hitchcock, Harold B., Middlebury, Vt.: 4 slides of mites collected in Davis Cave, Blanco Co., Tex. (232328).

Hitchcock, Walter A., Warrenton, Va.: Hand-powered cider mill and press, and belt-driven corn grinder (233465).

Hitchins, Mrs. John B., Sharon, Mass.; German passglas, 1718 (235959).

Hife, Mrs. Otis, Russellville, Ark.: 300 centipedes from Arkansas (234139).

Hobbs, Dr. Horton H., Jr., Charlottesville, Va.: 18 parasitic ostracods, types, from crayfishes (232783); (through Dr. George H. Penn) 3 crayfishes, allotype, holotype, and morphotype (234690).

Hobbs, Morris Henry, New Orleans, La.: 3 phanerogams from Central America (235622).

Hodges, Ronald, Ithaca, N.Y.: 13 small moths from North America (236029).

Hodson, Mrs. Frank, Washington, D.C.: Silver vanity box of the 19th century (235386).

Hoffman, Al (See Brandt, Dr. Rolf A.)

Hoffman, Dr. R. L., Blacksburg, Va.: 5 millipedes from Mexico and the U.S., including holotypes and paratypes (235845).

Hoffman, Ralph (See Jones, Mrs. Catherine M.)

Hoggson and Pettis Co., New Haven, Conn.: (Through William Ford) 5 pieces of blacksmith equipment (235976).

Hogue, Robert E., Alexandria, Va.: 2 water-color paintings of personnel on board U.S. Coast Guard *Northwind* by donor (233561).

Hokkaido University, Sapporo, Japan: (Through Dr. Sh. F. Sakagami) 30 bees from Japan (233183, exchange).

Holland, Dr. C. G., Fresno, Calif.: 4,630 miscellaneous archeological objects from Augusta, Bath, Highland, Rockingham, and Rockbridge Cos., Va. (235610).

Holland, Herbert (See Shelton Tack Co.)

Holland, Howard A. (See Owen, John T., Estate of)

Hollett, John A., Alexandria, Va.: Fish from Stoney River, Virginia (230874).

Holm, Weston, Silver Spring, Md.: Marine mollusk from the Persian Gulf, Saudi Arabia (232183).

Holsinger, J. R., Alexandria, Va.: Cave beetle from Virginia (233531).

Holt, Mrs. C. Parker, Pebble Beach, Calif.: 1886 Holt Combined Harvester-Thresher (236419).

Holt, Ira C., St. Paul, Minn.: 14 pre-canceled stamps (234184).

Holthuis, Dr. L. B. (See Great Britain, Government of; and Rijksmuseum van Natuurlijke Historie)

Homan, B. H., Jr., New York, N.Y.: 26,980 Argentine fiscal stamps (228081).

Homan, C. D., Oglesby, Tex.: 5 echinoids from the Cretaceous of Texas (229083); 94 invertebrates from the Cretaceous of Texas (232919, 234811).

Hoogstraal, Dr. Harry (See Defense, U.S. Department of)

Hoover, Edna (See Agriculture, U.S. Department of)

Hopkins, Thomas L. (See Florida State University)

Hopla, Dr. C. E., Norman, Okla.: 4 bat fleas from Kansas (235887).

Hoppe, H. J., Oakton, Va.: Die stock and blacksmith's post drill (232220).

Hopping, Dr. George H. (See Canada, Government of)

Horner, Dr. B. E., Northampton, Mass.: 2 biting lice from Australia (235891).

Horrigan, W. J. (See Walker, Mrs. Ethel V.)

Hotchkiss, Mrs. Stewart R., Redlands, Calif.: 3 pairs of women's stockings ca. 1900 (230962).

Hotton, Dr. Nicholas, III, Washington, D.C.: Labyrinthodont amphibian from the Permian of Kansas collected by Dr. Hotton (234445).

Houston, Dr. Charles O., Washington, D.C.: Silk necktie with the official insignia of General Chiang Kai-shek (231540).

Houtermans, Prof. F. G., Bern, Switzerland: Moldavite from Czechoslovakia (231680).

Houtz, Dr. R. E. (See Fiji Islands, Government of)

Howden Jewelers, Beverly Hills, Calif.: (Through Ralph E. Becker) 18 pieces of jewelry from the Democratic and Republican campaigns of 1960 (235935).

Howe, Alice H., Arlington, Va.: Fossil skull of a loon collected near Chesapeake Beach, Md., by donor (233274).

Howell, John (See Sentkoski, Clement)

Howells, Dr. and Mrs. William White, Kittery Point, Maine: Hungarian costume and 5 woven belts (233394).

Howland, Dr. Richard H., Washington, D.C.: 142 miscellaneous U.S. and foreign covers bearing postage stamps and postal meter markings (234181, 236153).

Hubbard, C. Andreson, Tigard, Oreg.: 86 slides of fleas from Alaska, Iraq, and western U.S. and Mexico (235022).

Hubbs, Dr. Carl L. (See Scripps Institution of Oceanography)

Huber, Dr. N. King (See Interior, U.S. Department of the)

Hubricht, Leslie, Atlanta, Ga.: 244 mollusks from Florida, Georgia, and South Carolina, 2 salamanders, types, from Morgan Co., Ga., and Butler Co., Ala., and 17 salamanders and 2 crayfishes from southern U.S. collected by donor (228617, 231123, 233141).

Hudson, R. (See Keystone Lamp Manufacturing Corp.)

Huebner, Dr. Robert J. (See Health, Education, and Welfare, U.S. Department of)

Hughes, Dr. R. J., Jr., University, Miss.: 2 fossil pelecypods (234441).

Hulings, Dr. Neil, Gloucester Point, Va.: (Through Dr. Marvin L. Wass) amphipod (229896). (See also Texas Christian University).

Hultén Dr. Eric, Stockholm, Sweden: 656 phanerogams, 104 grasses, and 27 ferns from Alaska collected by donor (236100).

Humes, Arthur G., Boston, Mass.: 451 copepods, paratypes, and 17 burrowing shrimp (233450, 235123). (See also Boston University)

Hundhausen, Mrs. A., Wausau, Wis.: 52 miscellaneous U.S. precanceled stamps (235658).

Hunt, David R., London, England: 467 phanerogams, 94 grasses, and 12 ferns collected on the Cambridge Expedition to British Honduras, 1959-60 (228969).

Hurd, Dr. Paul D., Berkeley, Calif.: 2 flies, holotype and allotype (232703). (See also California, University of)

Huston, Stewart, Coatesville, Pa.: 18th-century chaise (233575).

Huston, Mrs. W. M., Akron, Ohio: Silk campaign badge (233299).

Hutchinson, Herbert L., Framingham, Mass.: 96 precanceled stamps (233700).

Hyland, Dr. K. E., Jr., Kingston, R.I.: 2 slides of nasal mites from Pennsylvania (233829).

Hynd, W. R. B., Owlsmoor near Camberly, Surrey, England: 14 flies and lacewings from England (231410).

Hynek, Dr. J. Allen (See Northwestern University)

Idaho, University of, Moscow, Idaho: 83 grasses from Idaho (233085).

Ideal Pin Co., Beacon Falls, Conn.: (Through Stuart Lamb) safety pin machine (235967).

Illg, Dr. Paul L. (See Washington, University of)

Illinois, University of, Urbana, Ill.: (Through Dr. R. B. Selander) 169 blister beetle larvae from North America (234663, exchange).

Illinois Natural History Survey Division, Urbana, Ill.: (Through John Kingsolver) 13 caddisflies from eastern U.S. (235739); (through Dr. H. H. Ross) 6 leafhoppers, paratypes, from North America (231486).

Illinois State Museum, Springfield, Ill.: Grass from Illinois (234808).

Imamura, Prof. Taiji, Mito, Japan: 50 water mites from Japan (231003).

Imperial College of Science and Technology, London, England: (Through Dr. O. W. Richards) 2 flies from Juan Fernandez Islands and East Africa (229208, exchange).

India & Holy Land Crafts (See Porter, Lenore E.)

Indiana University, Bloomington, Ind.: 52 phanerogams (234989, exchange).

Indústria e Comércio de Minérios S. A.—ICOMI, Rio de Janeiro, Brazil: 60 pyrolusites for ICOMI manganese mine, Amapa, Brazil (231906).

Industrial Plants Corp., New York, N.Y.: (Through Sidney Kriser) rope

drop stamp and a wooden cornice brake (235985).

Ingeloff, Thorsten, Karlstad, Sweden: 66 philatelic envelopes bearing Swedish postal markings (234198).

Inghram, Dr. Mark G. (See Chicago, University of)

Institut Français d'Afrique Noire, Dakar, Sénégal, Africa: (Through Dr. Theodore Monod) 5 fishes from the eastern Atlantic (231343, exchange). *Section de Biologie Marine*: (Through Dr. Jean Cadenat) 15 fishes from French West Africa (232531, exchange).

Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium: (Through Dr. A. Capart) fish, paratype, from the eastern Atlantic (225884, exchange).

Institute for Medical Research, Kuala Lumpur, Federation of Malaya: (Through W. W. MacDonald) 24 mosquitoes from Malaya (232185).

Institute of Forest Botany, Hongo, Tokyo, Japan: (Through Dr. Ken Shimaji) 40 slides of woods (232207, exchange).

Institute of Hydrobiology and Fisheries, Alexandria, Egypt: (Through Mounir Wadie Benoub) 21 shrimps and 3 crabs (228537).

Institute of Jamaica, Kingston, Jamaica: *Science Museum*: 381 phanerogams, 6 grasses, and 99 ferns (232055, 232108, 234983, exchanges); (through George R. Proctor) 2 ferns from Jamaica (231344).

Instituto Agronomico do Norte, Belém, Pará, Brazil: 587 phanerogams and 14 grasses from Brazil (231832, gift-exchange); phanerogam (232195).

Instituto de Biología, Mexico, D. F.: 14 phanerogams, including 2 isotypes, from Mexico (234619, exchange).

Instituto de Botanica Darwinian, San Isidro, Argentina: 75 phanerogams, 27 grasses, and 1 fern from Argentina (233539, exchange).

Instituto de Ciencias Naturales, Bogotá, Colombia: 14 phanerogams from Colombia (231042); 53 phanerogams and 5 ferns from Colombia (235551, exchange); (through Dr.

Armando Dugand) fern and cryptogam from Colombia (228199).

Instituto de Historia Natural, Curitiba, Brazil: 50 phanerogams from Brazil (230777); (through Prof. Ayrton de Mattos) 67 phanerogams from Brazil (229715).

Instituto Miguel Lillo, Tucumán, Argentina: (Through Dr. Teodoro Meyer) 17 ferns from South America (232056, exchange).

Instituto Nacional de Pesquisas da Amazonia, Manaus, Amazonas, Brazil: (Through Dr. William A. Rodrigues) 349 phanerogams (233293).

Instituto Oswaldo Cruz, Rio de Janeiro, Guanabara, Brazil: 290 phanerogams from Brazil (231874).

Instituto Tecnológico de Veracruz, Veracruz, Mexico: (Through Jorge Carranza) 5 fishes from Mexico (232340).

Institutum Botanicum Universitatis, Szeged, Hungary: (Through Dr. Pal Greguss) 61 microscope slides containing sections of wood (230959, exchange).

Instytut Botaniki, Cracow, Poland: 92 phanerogams, 3 grasses, and 5 ferns (231553, exchange).

Inter-American Tropical Tuna Commission, La Jolla, Calif.: (Through W. L. Klawe) 706 marine invertebrates, 8 lots of mollusks, 1 bat, 3 fishes, 1 lot of medusae, and 9 cultivated phanerogams (231202, 232112, 232483, 233447, 233589, 234696, 235353).

Interior, U.S. Department of the, Washington, D.C.: *Fish and Wildlife Service*: Phanerogam from Texas (232271); (through Dr. Elbert H. Ahlstrom) 14 sharks from the eastern Pacific (234759); (through Harvey R. Bullis, Jr.) 286 mollusks, including 4 holotypes, and 180 corals (222802, 232282); holotypes of 4 new species of mollusks from the western Atlantic (233919); (through Harvey Bullis, Jr., and Dr. Daniel M. Cohen) 1,114 miscellaneous fishes from various localities (230152); (through T. D. Burleigh) 19 skeletons and 1,412 bird skins (235782); (through Dr. Philip A. Butler) 9 calianassids and 10 sea cucumbers

(231982, 234497); (through Clifford H. Fiscus) 6 slenderbilled shearwaters (232593); (through Raymond J. Fleetwood) spiny pocket mouse from Texas (233424); (through Dr. Elmer J. Gutherz) 4 shrimps (234691); (through Robert T. B. Iversen) 20 shark jaws from the Pacific Ocean (234954); (through James A. Kerwin) 11 isopods, 1 tanaid, 14 amphipods, and 3 crabs (235187); (through Joseph King) 98 fishes from the Gulf of Mexico (230905); (through Raymond B. Manning) 2 stomatopods, holotype and paratype (232927); (through Dr. Richard H. Manville) 215 mammals (235789); (through Ernest D. McRae, Jr.) 11 crabs, 6 polychaete worms and tubes, 5 shrimps, 1 lot of mollusk eggs, and a cerianthid tube (231303, 234569); (through Dr. George C. Miller) 170 crayfishes, 7 mollusks and 48 fishes (230775); (through Warren F. Rathjen) blue marlin (230766); (through Dr. C. Richard Robins) 2 fishes, holotype and paratype, from the Western Atlantic (233288); (through Arnie J. Suomela) die proof and complete sheet of 30 Migratory Bird Hunting (Duck) stamps, 1960-61 (231951); (through John R. Thompson) lobster, 2 galatheids, 9 crabs, and a shrimp (231351, 234312); (through Dr. Roland L. Wigley) sea plume, 3 corals, and holotype and 5 paratypes of isopods (232489, 233591); (through Loren P. Woods) fish, paratype (232934). *Geological Survey*: 14 fossil mollusks, fossil gastropod, 2 fossil fish scales from various localities; 2,253 phanerogams, 272 grasses, 124 ferns, and a cryptogam collected in Alaska by Lloyd A. Spetzman; 29 Foraminifera from the Bahama Banks (230810, 231032, 234561); 5 zinc ores and 2 fluorspars from various localities (230825); 32 minerals from Argentina and 60 Brazilian quartz crystals (231025, 234273); (through Dr. Arthur A. Baker) 10 minerals from various localities in the Upper Mississippi Valley; wecksite, type; and 2 whewellite from Juab and San Juan Cos., Utah (228360, 230747, 234997); 26 bauxites and related rocks from Minas Gerais, Brazil (234915); 22 minerals, rocks, and ores from Japan and Taiwan (234916, 235443); (through Dr. Preston E. Cloud) 39 brachiopods from the Eocene of Italy (235007); (through Mrs. Dora R. Conklin) 23 ores from Thailand (231911); (through Dr. F. R. Fosberg) 4 bamboos from Africa (231556); (through Arthur H. Frazier) 3 replicas of historical current meters dating from 1760 to 1868 (231963); (through Dr. N. King Huber) Pre-Cambrian coal from northern Michigan (231013); (through J. Murata) 10 Hawaiian lavas (233818); (through Dr. A. R. Palmer) 32 Cambrian conodonts from western Europe and the western United States and 48 fossiliferous limestone nodules from the Miocene of California (230657); (through Hillard N. Reiser) 3 cymrites in rock from Alaska (233518); (through Drs. I. G. Sohn and Jean M. Berdan) 13 slides of ostracodes from the Middle Devonian of Poland (234707); (through Ruth Todd) 142 Foraminifera from various localities (232092, 233271); (through Frank C. Whitmore, Jr.) fossil turtle remains (235471); (through Ellis L. Yochelson) 375 fossil fish remains (235472). *National Park Service*: 4 phanerogams from Mammoth Cave, Ky. (233462); (through Dr. Richard B. Eads) 4 fleas, holotypes and allotypes, from Texas (232038); (through Dr. William B. Robertson, Jr.) bird skin from Florida (232415).

International Business Machines Corp., New York, N.Y.: Model of coin stamper based on Leonardo Da Vinci's designs (234167).

Inverarity, Michael, Falls Church, Va.: 2 artist's proofs of German stamps, 17 foreign first day covers, and 241 miscellaneous postage stamps (234040).

Iowa, State University of, Iowa City, Iowa: (Through Dr. William M. Furnish) 16 fossil brachiopods from the Danian epoch of Denmark (235883); (through Dr. E. B. Kurtz) early mechanical television transmitter W9XK, and 3 mechanical television sets (229310).

- Iowa State University of Science and Technology**, Ames, Iowa: (Through Dr. Ben S. Willis) Ammeter, Hartman & Braun (230609).
- Irving, Dr. Laurence** (See Health, Education, and Welfare, U.S. Department of)
- Isham, Lawrence B.**, Washington, D.C.: 7 foreign meter impressions, and 11 covers bearing U.S. and foreign postal meter impressions (234193, 236152).
- Israels, Mr. and Mrs. P. W.**, Hampton, Va.: Brachiopod and 6 bryozoans from the Yorktown formation at Rice's Pit, Hampton, Va. (232175).
- Iversen, Robert T. B.** (See Interior, U.S. Department of the)
- Jackson, Robert D.**, Washington, D.C.: 4 small mammals from the District of Columbia (236040).
- Jacobs, Madelyn**, Washington, D.C.: 8 envelopes bearing French and British postage stamps (234188).
- Jaffe, Mark**, Washington, D.C.: Starling (236025).
- Jakobi, Dr. Hans** (See Universidade do Paraná)
- James, Dr. Maurice T.**, Pullman, Wash.: 2 flies, paratypes (232698). (See also Washington State University)
- James Incorporated**, Louisville, Ky.: (Through Louis Karp) set of 8 so-called half dollars (231491).
- Jameson, John** (See Smithsonian Institution)
- Janecka, J., Jr.**, Riverside, Ill.: 38 stamps, first day covers and other philatelic memorabilia of the U.S. Champions of Liberty series (234039).
- Jardim Botânico do Rio de Janeiro**, Guanabara, Brazil: 19 phanerogams from Brazil (234990).
- Jardim e Museu Agrícola do Ultramar**, Belém-Lisboa, Portugal: (Through Dr. José Diogo Sampaio d'Orey) 33 wood specimens from Portuguese Guinea and Angola (232205, exchange).
- Jardin Botánico**, Madrid, Spain: 130 phanerogams, 13 grasses, and 7 ferns from Spain (234080, exchange).
- Jarvi, T.**, Chicago, Ill.: (Through Alfred P. H. Overment) 87 tape impressions from National Postage Meter Co. machines (232889).
- Jeckel, Dr. C. A. W.** (See Zoologisch Museum)
- Jefferson, R. C.**, Wayzata, Minn.: Model of skate sailor (236175).
- Jenkins, Robert C.**, Washington, D.C.: Herbert Hoover portrait "Toby" pitcher and bowling pin from the White House bowling alley (231541, 234460).
- Jenkins, Dr. T. B. H.** (See University of Sydney)
- Jennings, Clyde**, Lynchburg, Va.: Pair of U.S. 3-cent Defense Issue, Scott No. 901 (232890).
- Jennings, Forster H.**, Washington, D.C.: Buddhist paper "Rosary" from Seoul, Korea (231210).
- Jennings, Mrs. Gloria**, New York, N.Y.: 6 items of 19th-century jewelry (230765).
- Jensen, David**, Rochester, N.Y.: Fluorite in gypsum from Penfield Quarry, Monroe Co., N.Y. (233522). (See also Ward's Natural Science Establishment)
- Jersey Production Research Co.**, Tulsa, Okla.: (Through Walker Johnson) 57 fossil plant spores from the Mississippian of the Hardinsburg Formation of Illinois and Kentucky, types, and 12 types of pollen grains (234592, 235004).
- Jiménez, Dr. José de Js.**, Santiago de Los Caballeros, Dominican Republic: 229 phanerogams, 8 grasses, and 24 ferns (226292, 229189, 230978, 233551).
- Johns Hopkins University**, Baltimore, Md.: (Through Dr. G. H. Dieke) 5 pieces of scientific apparatus used by Prof. Henry Rowland (235069); (through Dr. Everett L. Schiller) 18 mammals from Northwest Territories, Canada (232005); (through Dr. William J. L. Sladen) skeleton of a bird (234137).
- Johnson, Charles E.**, Washington, D.C.: Inaugural banner used during the 2nd inauguration of President Eisenhower, January 1957 (231938).
- Johnson, Donald H.** (See Colorado School of Mines)
- Johnson, Harold** (See Defense, U.S. Department of)

Johnson, Sgt. Harold E., Triangle, Va.: Bittner automatic pistol (210754, exchange).

Johnson, Dr. Martin W. (See Scripps Institution of Oceanography)

Johnson, Dr. Phyllis T. (See Gorgas Memorial Laboratory; and Tipton, Capt. Vernon J.)

Johnson, Walker (See Jersey Production Research Co.)

Jolle Jewelers International, Inc., New York, N.Y. (Through Ralph E. Becker) 6 pieces of jewelry for the Kennedy 1960 presidential campaign (234055).

Jones, Mrs. Catharine M., Cincinnati, Ohio: (Through Ralph Hoffman) 3 philatelic covers bearing U.S. steamboat markings (232596).

Jones, Dr. Eleanor K. (See Health, Education, and Welfare, U.S. Department of)

Jones, Mrs. Josiah Waters, Olney, Md.: Bath tub, marble basin, and commode chair (232952).

Joyce, E. A., Jr. (See Florida, University of)

Joyner, Capt. James R., Charleston, S.C.: 12 items of costume of the early 20th century (232769).

Jury, Felix M., Waitara, New Zealand: 9 ferns (231671).

Kainen, Jacob, Washington, D.C.: Vinaigrette of the 19th century and photograph, "Rooster," by Berenice Abbott (233907, 234066).

Kaluf, Mrs. John, Bethesda, Md.: Shawl from India, 19th century (231139).

Kander, Mrs. Allen, Washington, D.C.: Pencil from campaign of James A. Garfield, 1880 (231224).

Kane, Frank, Hopedale, Ohio.: Miner's cap, 2 lamps, auger with 2 handles, spike bar, needle and scraper and tamping bar (234625).

Kansas, University of, Lawrence, Kans.: 2 flies, paratypes (232700); 278 phanerogams, 91 grasses, and 5 ferns (234801, 235625 exchanges); (through Dr. E. Raymond Hall) frog and a lizard from Mt. Baw Baw, Victoria, Australia (230976); (through C. W. Retten-

meyer) 8 ants from Kansas (232043, exchange).

Karinska, Barbara, New York, N.Y.: European woman's cap, 19th century, and doll's dress, 18th century (232139).

Karp, Louis (See James Incorporated)

Kashkai, Prof. Mir-Ali, Baku, Azerbaijan, U.S.S.R.: (Through Dr. D. J. Fisher) alumite from Zaglik, Azerbaijan, U.S.S.R. (234438).

Kasline, C. T. (See Torsion Balance Co.)

Kauffman, Mrs. Draper L. (See Triest, Mrs. Willard)

Kauffman, Erle G., Washington, D.C.: 1,000 Devonian invertebrate fossils from Upper Dundee limestone and Silica shale, Sylvania, Ohio (232865); 50 molluscan fossils from the lower Fort Hays member, Upper Cretaceous, 30 slabs of the Dakota Sandstone, lower South Platte formation, of Colorado (232867).

Kawaguti, Dr. Siro, Okayama, Japan: 3 marine mollusks from the Inland Sea, Japan (230103).

Kazanjian Brothers, Los Angeles, Calif.: Red opal from Mexico and 8 sapphires from Mexico and Montana (234996).

Kealy, Hinman, L. P., Newark, N.J.: Iron column designed by Louis Sullivan in the 1880's (233359).

Keen, Dr. Myra (See Stanford University)

Keena, Mrs. Kemp, Fredonia, N.Y.: Plate from the service made in Paris for Congressman Charles Rich of Vermont, 1820 (233302).

Kehr, Ernest A., New York, N.Y.: Philatelic cover bearing stamps issued jointly by the U.S. and Mexico honoring Mexican Independence, Sept. 15, 1960 (234046).

Keissling, Max (See American Fastener Co.)

Keith, Bernard, Detroit, Mich.: 3,000 assorted brachiopods and 400 invertebrate fossils from the Devonian and Silica shale of Ohio (234651).

Kellen, Dr. William R., Fresno, Calif.: 27 pinned specimens and 91 slides of insects, types (232954).

- Kelley, Irwin M.**, Washington, D.C.: Brass plate label and 3 Lee Navy rifle cartridges from the wreck of the U.S.S. *Maine* (232888).
- Kellogg, M. W., Co.** (See M. W. Kellogg Co.)
- Kelsey, C. W.**, Troy, N.Y.: Scrapbook (234030).
- Kelso, Dr. Kip G.**, Sebastian, Fla.: Wood fragment and 4 cannon balls (231945).
- Kelton, Dr. L. A.** (See Canada, Government of)
- Kennedy, Fred C.**, Rochester, Minn.: Andalusite from Minas Gerais, Brazil (228544).
- Kennedy, President John F.**, Washington, D.C.: An amphora recovered from the wreck of the ancient Roman ship *Mare Nostrum* (235517).
- Kennerdell, Genevieve**, Kittanning, Pa.: Photograph of Richard Kennerdell's properties (234616).
- Kent, James**, Monroeville, Ohio: Magic lantern with 16 colored slides of the 19th century (232107).
- Kepner, C. Fred**, Chief Warrant Officer, Washington, D.C.: (Through Paul P. Weckesser) manuscript and printed scores of march composed by donor for second inauguration of Pres. Dwight D. Eisenhower, also newspaper article about the composer (231446).
- Kerr, Marjorie G.** (See Staten Island Historical Society)
- Kerrich, G. J.**, London, England: Paratypes of 2 wasps from Australia (232019). (See also Great Britain, Government of)
- Kerwin, James A.**, Virginia Beach, Va.: 7 insects from Virginia (235811). (See also Interior, U.S. Department of the)
- Keuffel, A. W.** (See Keuffel & Esser Co.)
- Keuffel & Esser Co.**, Hoboken, N.J.: (Through A. W. Keuffel) mathematical calculating chart and 10 slide rules (235479).
- Keystone Lamp Manufacturing Corp.**, Slatington, Pa.: (Through Howard E. Shearer and R. Hudson) Richard's System standard gauge (234024).
- Khalaf, Dr. Kamel**, Baghdad, Iraq: 99 biting midges from Iraq (233276).
- Khan, Rahim Bux**, Karachi, Pakistan: 60 used postage stamps of Pakistan (234635).
- Kidston, Comdr. Donald E.**, Washington, D.C.: U.S. National Ensign raised on Namur Island, Feb. 1, 1944 (234629).
- Kimball, Charles**, West Barnstable, Mass.: 141 miscellaneous moths and beetles from Florida (232032).
- Kimball, Samuel Eastman** (deceased): (Through Mrs. Adele Scott) vegetable dish from the Privateer "Alabama" (235044).
- Kimsey, Mayor M. E.**, Scottsdale, Ariz.: Vice President's flag (232694).
- Kincaid, Dr. Trevor**, Seattle, Wash.: 50 flies from Seattle, Wash. (232104).
- King, Charles E.** (See Florida State University)
- King, Elbert, Jr.**, Austin, Tex.: 15 tektites from Texas (233711, exchange).
- King, H. G.**, Henderson, New Zealand: 13 Hymenoptera from New Zealand (235013).
- King, Mrs. Herbert F.**, Washington, D.C.: 2 obsolete State Bank notes (232218).
- King, Joseph** (see Interior, U.S. Department of the)
- Kingry, Philip**, Lexington Park, Md.: 2 fossil crabs from the Miocene of Maryland (232090).
- Kingsbury, E. J.** (See Kingsbury Machine Tool Corp.)
- Kingsbury Machine Tool Corp.**, Keene, N.H.: (Through E. J. Kingsbury) Kingsbury automatic drilling unit (235983).
- Kingsolver, John** (See Illinois Natural History Survey)
- Kintziger, Michael**, Escanaba, Mich.: 40 precanceled stamps (233693).
- Kirkpatrick, Dr. Ralph D.**, Upland, Ind.: 19 ground squirrels from Indiana (230297).
- Kirkwood, Carl W.**, Summerland, Calif.: 16 moths from Arizona (234015).
- Kisch, Dr. Bruno**, Brooklyn, N.Y.: Heller electrocardiograph and 8 weights and measures (234031, 235392).

- Kissinger, Dr. David** (See Atlanta Union College)
- Kissinger, Mrs. Ursel E.**, Temple, Pa.: 8 precanceled stamps (235068).
- Klausewitz, Dr. Wolfgang** (See Senckenbergische Naturforschende Gesellschaft)
- Klawe, Dr. W. L.** (See Inter-American Tropical Tuna Commission and Scripps Institution of Oceanography)
- Kleeman, Dr. A. W.** (See Adelaide, University of)
- Klein, Edward L.** (See Daystrom, Inc.)
- Klein, Fred B.**, Daytona Beach, Fla.: 30 miscellaneous Latin American postage stamps and reprints (235388).
- Klein, Mr. and Mrs. Fred B.**, Daytona Beach, Fla.: 5 philatelic covers, 23 reprints of stamps, 44 counterfeit stamps, and 3 faked cancellations (233769).
- Klinikowski, Ronald**, Reading, Pa.: Cuban finch (232749).
- Knight, Mrs. J. Brookes**, Sarasota, Fla.: 16 invertebrate fossils from the Pleistocene, Lindos, Greece (233814).
- Knobby Krafters**, Attleboro, Mass.: (Through Ralph E. Becker and William A. Nerney) 12 elephant pins from the 1960 presidential campaign (236122).
- Knobloch, Dr. Irving W.** (See Michigan State University)
- Knowles, B. L.**, Arlington, Va.: 6 porcelain plates with gold and platinum decorations of the early 20th century (235958).
- Knowles, George B.**, Port Washington, N.Y.: Strip of 6 mint U.S. airmail stamps (Scott #C23) (235662).
- Knowlton, Dr. George F.**, Logan, Utah: 71 aphids from Ohio and western U.S. (235826).
- Kohen, Charles**, Washington, D.C.: 8-Heller silver coin struck in 1629 in Duesseldorf (233050).
- Kohls, Dr. Glen M.** (See Health, Education, and Welfare, U.S. Department of)
- Kohn, Dr. Alan J.**, Tallahassee, Fla.: 19 marine mollusks from Ponape, Caroline Islands (232541).
- Kohn, Mrs. Marian A.**, Tallahassee, Fla.: 6 long-legged flies (231921).
- Koile, Byrl R.**, Hibbing, Minn.: Bass drum carried by donor's grandfather during the Civil War (233580).
- Kolomensky, Dr. V. D.** (See Corny Institute Museum)
- Komarek, E. V.**, Tallahassee, Fla.: 141 mammals from southeastern and southwestern U.S. (236041).
- Koney, E. J.**, Burlingame, Calif.: Air-mail first night flight cover from Chicago to San Francisco, July 1, 1924, and associated newspaper clipping from the Chicago Tribune (234195).
- Kopf, Rudolf W.**, Monticello, Utah: Trackway of labyrinthodont amphibian from the Permian of Navajo Co., Ariz. (234652).
- Koppe, Edwin F.**, Harrisburg, Pa.: 2 asphaltites from Nottingham Township, Washington Co., Pa. (231912).
- Kornicker, Dr. Louis S.**, Port Aransas, Tex.: 2 gorgonians and 5 zoanthids (232275).
- Korotkin, Fred**, Minneapolis, Minn.: 6 U.S. covers bearing special "Topex" 1960 convention station cancellations (234185).
- Kozloff, Dr. Eugene N.**, Portland, Oreg.: 23 centipedes from Oregon (235830, 236031).
- Krantz, Dr. G. W.**, Corvallis, Oreg.: 3 slides, allotype, holotype, and paratype, of mites from Oregon (235023).
- Kraus, Dr. Otto** (See Senckenbergische Naturforschende Gesellschaft)
- Krause, Peggy**, Washington, D.C.: Spanish fan (231811).
- Krauss, Dr. N. L. H.**, Honolulu, Hawaii: 92 phanerogams, 7,848 miscellaneous insects, 3 millipedes, 3 centipedes, and 4 shells from the Azores Islands, England, Europe, Madeira, Mexico, Morocco, Portugal, South America, and Spain (230726, 232102, 233281, 235813, 235814, 236111).
- Kreuz, Rear Adm. Frank P.** (See Defense, U.S. Department of)
- Krieger, Herbert W.**, Washington, D.C.: 172 archeological items collected in 1937 by donor from the American and British Virgin Islands, Lesser Antilles (146257).
- Kriser, Sidney** (See Industrial Plants Corp.)

Krombein, Dr. Karl V., Arlington, Va.: 2 bees from Arizona and New Mexico (232105); 1,124 miscellaneous insects, including holotype, from Lost River State Park, W. Va., and Washington, D.C. (234016, 234018); bethylid wasp, holotype, from Kill Devil Hills, N.C. (235803).

Krook, N., Prince Rupert, B.C.; Junior typewriter of 1907 (235998).

Krumholz, A. J. (See Atlantic Refining Co.)

Kukachka, Dr. B. Francis (See Agriculture, U.S. Department of)

Kuntz, Karl (See Kuntz, Lisa)

Kuntz, Lisa and Karl, San Francisco, Calif.: 97 miscellaneous insects from Taipei (233528).

Kuntz, Dr. Robert E., San Francisco, Calif.: 2 dried fish skins and 347 miscellaneous insects from Formosa (231999, 233287). (See also Defense, U.S. Department of)

Kuroko, Dr. H., Hikosan, Japan: 5 small moths from Japan (236027).

Kurtz, Dr. E. B. (See State University of Iowa)

Kuschel, Dr. Guillermo, Santiago, Chile: 256 small moths from Juan Fernandez Islands and 42 flies from Chile (213508, 235829).

Kyoto, University of, Kyoto, Japan: 185 miscellaneous ferns from Japan (232054, exchange); (through Dr. M. Tagawa) 2 phanerogams and 27 ferns, isotypes and paratypes, from Japan (232753).

Kyushu University, Fukuoka, Japan: (Through Dr. K. Yasumatsu) 2 bees from Japan (233215, exchange).

La Berge, Wallace E., Lincoln, Nebr.: 20 bees from the U.S. (233277).

Labor Committee for Kennedy and Johnson, Washington, D.C.: Campaign portraits of President Kennedy and Vice President Johnson (234428).

Laboratoire de Zoologie, Montpellier, France: (Through Dr. A. Bournier) 26 thrips from France (232096, exchange).

Ladd, Dr. Harry S., Washington, D.C.: 321 fresh-water mollusks from Babelthuap and Palau Islands (234157).

Laffoon, Dr. Jean, Iowa City, Iowa: 2 flies, holotypes (232702).

LaFollette, Charles M., Evansville, Ind.: Fossil fish on slab from near Holzmaden, Wurttemberg, Germany (232447).

L'Agence Philatelique de la Republique de Guinea (See Republic of Guinea, Government of)

La Gorce, John Oliver, Estate of: (Through William H. Wiegeling) collection of weapons, accessories, armor, stone artifacts, and pottery figures, worldwide (229198, bequest).

Lake, Robert W., Newark, Del.: 14 mosquitoes from Delaware (235020).

Lamb, Stuart (See Ideal Pin Co.)

Lambie, Margaret, Washington, D.C.: 9 paintings and notebooks by Mrs. Richard W. Search (230808).

LaMonte, Dr. Francesca R. (See American Museum of Natural History)

Lamore, Donald H., Nevada, Mo.: 2 bird skeletons from France (234321).

Lancaster, Dr. Douglas A. (See Louisiana State University)

Landis Tool Co., Waynesboro, Pa.: (Through D. H. Ruth) Landis grinding machine and Landis transfer grinding machine model (234095).

Lane, Dr. John, São Paulo, Brazil: 34 gnats from the Neotropics (235012).

Lange, Kenneth I. (See Feinstein, Bernard R.)

Langley, Carol, Washington, D.C.: Ruby-throated hummingbird (232009).

Lankester, C. H., Cartago, Costa Rica: Phanerogam (231549).

Lanza, Dr. Benedetto (See Florence, University of)

Latham, Dana (See Treasury, U.S. Department of the)

Latham, Roy, Orient, N.Y.: 6 phanerogams from New York (236110).

Laudon, Dr. Lowell R., Madison, Wis.: 34 invertebrate fossils from the Permian of Canada (235468).

Lauff, Dr. George H. (See Georgia, University of; and Gray, Milton B.)

Lay, W. C. (See Aluminum Co. of America)

Layne, Dr. James N., Gainesville, Fla.: 25 fleas from Florida (236035).

- Layton, John B.** (See District of Columbia, Government of)
- League of Women Voters of the United States** (See McKay, Mrs. Elmer and Wetzel, Mrs. Ruth N.)
- Leatherman, Mrs. Sylvia**, South El Monte, Calif.: 4 cultivated ferns (232051).
- Leavens, Peter**, New Haven, Conn.: Right hand of fossil crab from the Miocene of Gay Head, Mass. (233815).
- LeCalvez, Dr. Yolande**, Paris, France: (Through Ruth Todd) 5 Recent Foraminifera from France (235465).
- Lee, Bong Nai** (See National Fisheries Experiment Station)
- Lee, George L.**, Bernardsville, N.J.: Used 5-cent Canadian St. Lawrence Seaway stamp with inverted center and 557 Royal Imperforate printings of Egyptian stamps (233848, 233849).
- Lee, Kenneth E.**, Jonesboro, Tenn.: Prohibition, Anti-Socialist button, 1960 (234824).
- Leech, Hugh B.**, San Francisco, Calif.: 4 paratypes of beetles from California and Chile (233285).
- Leeds, University of**, Leeds, England: (Through Dr. O. Von Knorring) kenedyite from Southern Rhodesia (236019).
- Leftwich, Lt. James J.**, Terminal Island, Calif.: Coast Guard officer's cap, ca. 1900 (231419).
- Lehman, Rev. Thomas H.**, Newton, Mass.: Fossil crab from the Miocene of Gay Head, Mass. (233817).
- Lehmann, Gerald E.**, Lyons, N.J.: 4 historical newspapers covering the death of President William McKinley (234676).
- Lemaire, Robert J.**, Grand Island, Neb.: 81 phanerogams, 21 grasses, and 1 fern from southeastern Louisiana (235379).
- Lentz, Leonard J. P.**, Baltimore, Md.: Fan of about 1890 and a Radiola IV radio receiver (233059).
- Lenz, Prof. Arno T.** (See Wisconsin, University of)
- Leonard, Emery C.**, Washington, D.C.: 707 phanerogams from Maryland (234074).
- Levenson, Mrs. Bertha**, Washington, D.C.: (Through Frederick Levenson) Russian Army belt container (235564).
- Levenson, Frederick** (See Levenson, Mrs. Bertha)
- Levi, Dr. Herbert W.** (See Harvard University)
- Levinson, Dr. A. A.**, Freeport, Tex.: Mineral, psilomelane-type, from La Abundancia Mine, Zacatecas, Mex. (232869).
- Levinson, Dr. S. A.**, Houston, Tex.: (Through Dr. I. Gregory Sohn) 13 ostracodes from the Middle Ordovician of Oklahoma (235467).
- Levko, Noel**, New York, N.Y.: 37 minerals from various localities (235151, exchange).
- Levy, Edgar**, Colorado Springs, Colo.: 132 miscellaneous U.S. precanceled stamps (234636).
- Lewis, Alan** (See Hawaii, University of)
- Lewis, L. Logan** (See Carrier Corp.)
- Lewis, Rae T.**, Washington, D.C.: Teapot and dish of the 18th and 19th centuries (232958).
- Lewis, Mrs. Roger H.**, Andover, Mass.: 41 star U.S. flag (235529).
- Libman, C. R.**, Orlando, Fla.: 5 U.S. philatelic covers (233768).
- Library of Congress**, Washington, D.C.: 45 miscellaneous objects from the Joseph M. Toner collection (235052); 2 bronze medals (235060); (through Nathan R. Einhorn) medal struck in 1952 commemorating the 100th anniversary of the founding of the Patriarchal Library, Alexandria, Egypt (231753); 500 miscellaneous prints and photographs of animals (232802); (through L. Quincy Mumford) 4,642 stampless covers and envelopes bearing miscellaneous U.S. and foreign stamps (232892). *Hispanic Foundation*: (Through Howard F. Cline) 43 sherds from Oaxaco, Mexico (235016). *Stamp Club*: (Through Nathan R. Einhorn) 436 miscellaneous used foreign postage stamps (236141).
- Ligas, Frank J.**, Fort Lauderdale, Fla.: Parasitic helminth worms from the trachea and body cavity of a cottonmouth from Andytown, Broward Co., Fla. (230612).

- Limon, Robert**, Washington, D.C.: Star garnet, 174 carats, from Idaho (234558, exchange).
- Lincoln, Frederick C., Estate of:** (Through Dr. Richard H. Manville) 90 firearms, accessories, and ammunition from the Frederick G. Lincoln estate (235562).
- Lindquist, Evert**, Berkeley, Calif.: 9 slides of mites from North America (236030).
- Lindquist, Harry L.**, New York, N.Y.: 216 U.S. War Savings stamps, 25 U.S. Savings stamps, and 3,501 U.S. and foreign first day, first flight, and miscellaneous covers (233569, 233772).
- Lindroth, Dr. Carl H.**, Lund, Sweden: Paratype of a beetle from Canada (235895).
- Lindsay, Mrs. Steele**, Seattle, Wash.: Sample of material from the Grant-Wilson campaign of 1872 (233300).
- Lines, Phillip D.**, La Plata, Md.: 3 potsherds from Prince Georges Co., Md. (234975).
- Lingebach, J. C.**, Washington, D.C.: 6 mammals from Maryland and West Virginia (236039).
- Link, Edwin A.**, New York, N.Y.: 9 items from wreck of the *Ivory* ca. 1760, and 380 objects collected on expedition to wreck site of 1733 fleet in Florida Straits area (231946, 232060).
- Lipscomb, James**, New York, N.Y.: Proof sheet of notes issued by the Ocean Bank in Stonington, Conn. (235058).
- Little, Arthur D., Inc.** (See Arthur D. Little, Inc.)
- Litsey, John B.** (See Tenery, Col. John H.)
- Livingstone, Daniel**, Durham, N.C.: 123 miscellaneous slides of pollen preparations and 219 slides of pollen (231544, 234995).
- Llubetic, Antonio**, Bayside, N.Y.: (Through M. Stecker) 52 danburites from Rio Cristalmayu, Chapare, Bolivia (232001).
- Locklin, Charles R.**, St. Petersburg, Fla., and **Fargo, William G.** (deceased): 294 invertebrate fossils, including holotypes of gastropods, from the Pliocene of Florida (166168).
- Lockwood, Vice Adm. Charles A., Jr.**, Monte Sereno, Calif.: 13 personal mementos of World War II (233566).
- Loeblich, Dr. A. R.** (See Carlquist, Dr. Sherwin)
- Logan, Alan**, Newcastle-upon-Tyne, England: 51 invertebrate fossils from the Permian of England (232746, exchange).
- Lohse, Frederick E.** (See Coats and Clark Co.)
- Lombard, Earl J.** (See Underwood, Col. Henry M.)
- Long, Mrs. Grace R.**, Arlington, Va.: Enlisted man's artillery saber and scabbard (235568).
- Loomis, H. F.**, Miami, Fla.: 62 millipedes from western U.S., and 2 millipedes, holotypes, from Florida (235014, 235810).
- López F., Prof. M.** (See Universidad de Oriente)
- Los Angeles County Museum**, Los Angeles, Calif.: 25 phanerogams (232117, exchange).
- Louisiana State University**, Baton Rouge, La.: Grass from Louisiana (231045); 55 phanerogams from Louisiana collected by J. V. Shireman (235627); (through Dr. Douglas A. Lancaster) 7 termites from British Honduras (232018); (through Dr. George H. Lowery, Jr.) 64 bird lice, allotypes and holotypes, from Mexico and the U.S. from the Carriker collection (234150); (through Prof. William G. McIntire) 123 miscellaneous slides of pollen (234623, exchange).
- Lowenstam, Dr. Heinz A.**, Pasadena, Calif.: Brachiopod from Baja California (231017); 8 Recent brachiopods from Sweden and the Barbados (234591, exchange).
- Lowery, Dr. George H., Jr.** (See Louisiana State University)
- Lundell, Dr. C. L.** (See Texas Research Foundation)
- Lyon, Geoffrey** (See Swarts, Larry)
- Lyon, Rowland**, Washington, D.C.: Plow plane (231542).
- M. and E. Marine Supply Co.**, Camden, N.J.: 23 pieces of deep sea diving equipment (231944).

M. W. Kellogg Co. and Esso Standard, New York, N.Y.: (Through J. M. Carry and Robert H. Scholl) model of a fluid catalytic cracking unit with explanatory flow chart (235382).

M. W. Robinson Co., Inc., Rockfall, Conn.: (Through J. V. C. McKinney) 45 machines and auxiliary parts (228784).

Maccoun, W. E., Dutch Flat, Calif.: Soda bottle and balm bottle (234617).

MacDonald, Dr. A. Magruder (See District of Columbia, Government of)

MacDonald, W. W. (See Institute of Medical Research)

MacDougall, T., New York, N.Y.: 3 phanerogams from Mexico (231748).

Macfarlane, Donald (See Commonwealth Institute of Entomology)

Mackey, Alice B. (See Ward, Mrs. Gertrude McHench)

MacLeod, Ellis, College Park, Md.: Insect from the District of Columbia (231007).

MacNeill, C. Don (See California Academy of Sciences)

MacSwain, J. W. (See California, University of)

Magness, William R., Roseburg, Oreg.: Fossil plant from the Tertiary of Oregon (232862).

Mahta, Peter F., New York, N.Y.: First flight cover, Bombay to New York, May 14, 1960 (234190).

Main, Chas. T., Inc. (See Chas. T. Main, Inc.)

Maine, University of, Orono, Maine: (Through Dr. W. Harry Everhart) 4 fishes from Maine (231515).

Maine Sardine Council, Augusta, Maine: (Through Richard E. Reed) 119 mounted postage stamps depicting fish from various countries (230314).

Maldonado-Capriles, Dr. J., Mayaguez, Puerto Rico: 2,938 miscellaneous insects from Pakistan (232750).

Malkin, S., Washington, D.C.: Cherry stoner (231742).

Malkin, Stuart J., Bloomfield, N.J.: 32 United Nations first day and first flight covers and 8 miscellaneous covers (234197).

Mangor, Elovius (See Norway, Government of)

Manning, Josephine B. (See Delano, William Adams)

Manning, Raymond B. (See Interior, U.S. Department of the; and Miami, University of)

Manville, Dr. Richard H. (See Interior, U.S. Department of the; and Lincoln, Frederick C.)

Mara, Prof. Richard T. (See Gettysburg College)

Marsh, Mr. and Mrs. Fred Dana, Woodstock, N.Y.: Oil painting, "Removal of the Last Rock," by Mr. Marsh (222468).

Marsh, Paul M., Davis, Calif.: 2 paratypes of a parasitic wasp from the U.S. (235819).

Marsh, Walt, Belleville, Ill.: (Through Ralph E. Becker) 14 song sheets from the 1960 Republican campaign (235933).

Marshall, Byron C., Hot Springs National Park, Ark.: 3 lots of nematode worms from a three-toed box turtle and 2 crickets from Arkansas (230746, 233526).

Marshall, Mrs. Edward, Lucketts, Va.: 4 fans, lace jabot, lace lappet, and embroidered handkerchief of the 19th and 20th centuries (234917).

Marshall, Dr. J. T., Jr. (See Arizona, University of)

Marshall, Dr. Norman B. (See Great Britain, Government of)

Martin L. Ehrmann Co., Los Angeles, Calif.: 151 minerals from various localities (230966, exchange); 5 minerals from Africa and Germany (236023).

Martínez E., Rafael (See Universidad de Oriente)

Maryland, University of, Baltimore, Md.: Collection of instruments and research apparatus (233572).

Maryland Department of Research and Education, Snow Hill, Md.: (Through Fred W. Sieling) marine mollusk from Virginia (234450).

Masaryk University, Brno, Czechoslovakia: 89 phanerogams, 9 grasses, and 2 ferns from Czechoslovakia (234986, exchange).

Mason, Benny, Seneca, S.C.: 7 sili-manites from South Carolina (229761).

- Mason, C. Russell, Maitland, Fla.: Nighthawk and bird skin (230869, 234136).
- Mason, L. Maurice, Fincham, King's Lynn, England: 11 cultivated phanerogams (234624).
- Mason, Lou, Naples, Fla.: Marine mollusk from Naples, Fla. (233807).
- Masson, Mary G., Washington, D.C.: 4 19th-century dresses and wraps (230764).
- Matejka, Dr. James J., Jr., Chicago, Ill.: 12 philatelic items issued at Complex, 1960 (234189).
- Matuda, Dr. Eizi, Mexico, D.F.: 456 phanerogams collected in Mexico by donor (236101).
- Maul, Dr. G. E. (See Museu Municipal do Funchal)
- Maxwell, Dr. W. G. H. (See Queensland, University of)
- May, Mrs. Herbert Arthur, Washington, D.C.: 13 pieces of lace and embroidery and 13 pieces of cut and engraved glass from the *Sea Cloud* service (230744, 234816).
- McCalip, Mrs. C. E., Arlington, Va.: Cedar waxwing (231213).
- McCall, Francis J., Washington, D.C.: 86 miscellaneous U.S. and foreign philatelic items (234175, 236155).
- McCarthy, Mrs. Eileen (See Smithsonian Institution)
- McCarthy, Mrs. Robert B., Los Altos, Calif.: 21 precanceled stamps (233691).
- McCarty, Col. W. A., Alexandria, Va.: 2 marine mollusks from Siasi, Republic of the Philippines (235899).
- McClatchie, Lt. Col. Samuel (address unknown): 29 phanerogams from Formosa (223855).
- McClure, Dr. H. Elliott (See Defense, U.S. Department of)
- McCrary, O. F., Raleigh, N.C.: 2 phanerogams (232651, 232786).
- McDermott, Frank A., Wilmington, Del.: Holotype of a firefly from Bolivia (236033).
- McElvare, R. R., Southern Pines, N.C.: Holotype of moth from Florida and 55 miscellaneous moths from Arizona and Texas (233831, 235831).
- McErlean, Andrew J. (See Florida State Board of Conservation)
- McFarlin, James B., Bradenton, Fla.: 2 cultivated ferns (231335).
- McGahey, Mrs. Carrie Weeks, Washington, D.C.: Linen handkerchief and feather fan of the 19th century (231809).
- McGregor, Dr. E. A., Whittier, Calif.: 6 spider mites from Ecuador (231011).
- McHenry, G. Ruth, Washington, D.C.: Length of material for a dress purchased in 1860 (230805).
- McIntire, Prof. William G. (See Louisiana State University)
- McKay, Mrs. Elmer, Columbia, Mo.: (Through League of Women Voters of the United States) sash worn by donor in the "Golden Lane" suffrage demonstration at St. Louis during the Democratic presidential campaign convention, 1916 (236135).
- McKinney, J. V. C. (See M. W. Robinson Co., Inc.)
- McMichael, Dr. Donald F. (See Australia, Government of)
- McRae, Dr. Ernest D. (See Interior, U.S. Department of)
- Mead, Gordon, Washington, D.C.: Broad-winged hawk (232093).
- Meade, Fred W., Landover, Md.: Crimper, 2 potato mashers, griddle, tongs, peel, lock and knob, knobs, box, match safe, and typewriter (229771).
- Meanley, Brooke, Laurel, Md.: 2 shrews from Louisiana (236042).
- Medallic Art Co., New York, N.Y.: 14 Kennedy Inaugural medals, including plaster casts, die shells, dies, and a process set of medals (234795).
- Meek, Col. Herbert A. (See Thomas, Mrs. Roy E.)
- Meese, Norman S., San Francisco, Calif.: 68 marine mollusks from Saipan, Marianas (230330).
- Mehta, Dhirubhai, Bombay, India: First day cover and first flight cover of India, 6 covers of postage stamps of India, and first day cover of India honoring Tyagaraja Aradhana day (234186, 235067, 236147).
- Melburn, M. C., Victoria, B.C., Canada: 26 lichens collected on Vancouver Island by donor (229082).
- Melcher, Mrs. Kendall B., Douglas, Ariz.: Ladies' stockings of the 19th

century and *The Seaman's Daily Assistant*, by Thomas Haselden, used for Naval instruction, 1770 (233739).

Melson, William, Baltimore, Md.: Aragonite from Mineral Hill Copper Mine, Carroll Co., Md. (232181).

Menand, Dean Howard (See Princeton University)

Mendez, Eustorgio (See Gorgas Memorial Laboratory)

Menke, Arnold, Davis, Calif.: Giant waterbug, paratype (231217).

Merriam, Wesley A., Dansville, N.Y.: 23 miscellaneous scarab beetles from Vermont (235842).

Metcalfe, Dr. C. R. (See Royal Botanic Gardens)

Metters, Mrs. Robert G. (See Triest, Mrs. Willard)

Meyer, Dr. Fred G. (See Agriculture, U.S. Department of)

Meyer, Louis F., Jr., Baltimore, Md.: (Through Robert Vogel) silk kerchief celebrating the virtues of William H. Harrison, candidate for the Presidency of the U.S., 1836-40 (235652).

Meyer, Dr. Teodoro (See Instituto Miguel Lillo)

Meyrowitz, Alan L., Silver Spring, Md.: Specimen of bayleyite (231914).

Miami, University of, Miami, Fla.: (Through Raymond B. Manning) 16 shrimps, spiny lobster tail, and 17 crabs (230188, 230860, 233243, 235501); (through Dr. Dennis R. Paulson) 2 bird skins from Miami, Fla. (232438); (through Dr. John E. Randall) 40 gorgonians, 1 hydroid, 1 antipatharian, 9 corals, 2 lots of stomach contents, 2 isopods, 1 amphipod, and 1 crab claw (229953, 234697, 235177); 4 fishes from the Virgin Islands (235147, exchange); (through Dr. C. Richard Robins) fish, paratype, from the Atlantic Ocean near Puerto Rico (233735); (through Dr. C. Richard Robins and Dr. Bruce B. Collette) fish from Florida collected by William Bell (233523, exchange); (through Walter A. Starck II) 3 gorgonians (233888); (through Lowell P. Thomas) 547 mysids and 3 isopods (229241).

Michaud, Vivian, Washington, D.C.: Grass parakeet (235779).

Michigan, University of, Ann Arbor, Mich.: Lot of mollusks (235148); 78 phanerogams and 26 grasses from Alaska and Canada (235618, exchange); (through Dr. William S. Benninghoff) 100 microscope slides of pollen (236107, exchange); (through Dr. John B. Burch) 90 marine shells from Eniwetok Atoll, Marshall Islands (233806); (through Dr. Robert R. Miller) 146 marine invertebrates (231204).

Michigan State University, East Lansing, Mich.: 25 ferns (231831, 233547); (through Dr. Irving W. Knobloch) 3 ferns (231035).

Midgley, Dr. H. G., Garston, Watford, Herts., England: 2 lizardites from Kennack Cove, England (231915).

Miles, Mrs. Alfred Hart, Charlottesville, Va.: "Votes for Women" button (234823).

Miles, Mrs. Arnold, Washington, D.C.: 55 items of children's clothing, 2 bottles, 2 pictures, 1 rug, coin, 3 items of military memorabilia, household utensils, and railway folders, ca. 1900 (232332).

Millen, T. R., Scranton, Pa.: Miner's respirator, 2 lamps, and an old Time Book of the Lehigh Coal Co. (235962).

Miller, Dr. Arthur K., Iowa City, Iowa: (Through Dr. W. M. Furnish) 213 brachiopods from the Permian and Mississippian of Russia and the Delicias area in Coahuila, Mexico (234590).

Miller, E. Gatlin, Studio City, Calif.: Set of drawing instruments (234123).

Miller, E. W. (See Fellows Gear Shaper Co.)

Miller, Dr. George C. (See Interior U.S. Department of the)

Miller, Gus (See Republican National Committee)

Miller, Hal, Golden, Colo.: 3 gear-sulfites and uraninite from Colorado (233521).

Miller, Dr. Mitchell H., Baltimore, Md.: Gold leaf electroscope and charger (232302).

Miller, Robert, Arlington, Va.: Lance of type used by Rush's Lancers, 1861-63 (217342, exchange).

Miller, Dr. Robert R. (See Michigan, University of)

Miller, Capt. Walter B., Point Mugu, Calif.: 30 marine mollusks from the Solomon and Cook Islands (231487).

Minerva Oil Co., Eldorado, Ill.: (Through I. V. Robertson and R. Dutton) 4 fluorites from Crystal mine, Illinois (231681).

Ministerio de Agricultura y Cria, Caracas, Venezuela: *Instituto Botanico*: 261 phanerogams (230219, 231198, 231219, 231611, 232454, 233218); 23 phanerogams, including isotypes (233763, 233764, exchanges); (through Dr. Leandro Aristeguieta) 35 miscellaneous phanerogams and a fern (229561, 230987, 234781); (through Dr. Julian A. Steyermark) 5 phanerogams and 86 ferns from Venezuela (232211).

Minnesota, University of, Minneapolis Minn.: (Through Dr. Robert E. Sloan) 12 trilobites, holotypes and paratypes, from the Franconia formation, Cambrian of Minnesota (235469).

Mishler, Clifford, Vandalia, Mich.: 7 medals commemorating Alaska and Hawaii statehood, 1959 (233312).

Mississippi Game and Fish Commission, Hattiesburg, Miss.: (Through Billy J. Grantham) 5 fresh-water muscels from Mississippi (234843).

Missouri, University of, Columbia, Mo.: (Through Dr. A. G. Unklesbay) 35 brachiopods from the Pennsylvanian of Missouri (230939, exchange).

Missouri Botanical Garden, St. Louis, Mo.: 22 phanerogams, 84 ferns, and 1 cryptogam from Panama and 44 orchids from Ecuador (231395, 231771, 233544).

Mitchell, Clarence P. (See Brock, Norman H.)

Mitchell, Will (See Allis-Chalmers Manufacturing Co.)

Miyoshi, Kazuo, Hikari-Shi, Yamaguchi-Ken, Japan: 326 miscellaneous insects from Japan (232956).

Mohsin, Taqui, Karachi, Pakistan: 2 philatelic covers of Pakistan (234044).

Moncure, Mrs. Powhatan, Jr., Arlington, Va.: Girl's bicycle (236166).

Monnig, Oscar, Fort Worth, Tex.: 2 slices of the Moab, Utah, meteorite (231324).

Monod, Dr. Theodore (See Institut Français d'Afrique Noire)

Montenyohl, Mrs. V. I., Madison, N.J.: Pair of crocheted wool slippers made by Mrs. William McKinley (232788).

Montignani, Mrs. William C., St. Petersburg, Fla.: Crimea medal with original ribbon and bars inscribed Alma and Sebastopol, also letter of award, 1857 (231826).

Montréal Botanical Garden, Montréal, Canada: 3 cultivated phanerogams (234075).

Moore, Charles E., Darlington, Pa.: Road axe, pair of steel hames, spike bar, "needle," scraper, tamping bar, and a pick head (235035).

Moore, Mrs. Earl E., St. Petersburg, Fla.: *Recollections of Forty Years in the House, Senate, and Cabinet*, autobiography by John Sherman, 2 vol. (231049).

Moore, Dr. Harold E., Jr. (See Cornell University)

Moore, Lee, Miami, Fla.: 10 phanerogams (233548, 233765, 234161).

Moore, Sewell P., Palisade, N.J.: (Through Robert Collins) 27 British Army buttons (235951).

Moore, Dr. Walter G., New Orleans, La.: 192 fairy shrimps (230940).

Moorman, Lewis, Berkeley, Calif.: Steel planchet of the type used for the manufacture of U.S. cents for 1943 (233308).

Moran, W. E., Falls Church, Va.: Labyrinthodont amphibian from the Mississippian of West Virginia collected by donor (234444).

Morrell, Junior, Arden, W. Va.: (Through R. K. Bogert, Jr.) miner's oil lamp (234818).

Morrison, Mrs. Eleanor Goodnight, Bethesda, Md.: Handkerchief, linen embroidered towel, and an unusual sampler of 1802 (233455).

Morrison, George A. (See Turbo-craft)

Morrison, Dr. J. P. E., Washington, D.C.: 23 miscellaneous insects from New Jersey and Virginia (225965).

Morrison, Dr. John T., Bethesda, Md.: Washington-Bryan combination picture post card from political campaign of 1896 (231050).

Morrison, R. T., Jr., McClellanville, S.C.: 3 marine invertebrates (230920).

Morse Twist Drill and Machine Co., New Bedford, Mass.: (Through John J. Hayes) 8 items of milling and materials testing equipment (235987).

Mosler, Mrs. Linnie Kirk, Philadelphia, Pa.: 126 miscellaneous Naval items (235045).

Moulton, Dr. James M., Brisbane, Australia: 5 shrimps (232608).

Mountain, Dr. Edgar D., Grahams-town, Rhodesia: Rhodesite and mountainite from Bulfontein Mine, Kimberley, S. Africa (231910).

Muesebeck, Dr. Carl F. W., Washington, D.C.: 32 miscellaneous foreign covers bearing postage stamps (234194, 236150).

Muhlenberg College, Allentown, Pa.: (Through Prof. R. A. Boyer) Geissler's vaporimeter (233667); (through Prof. Robert L. Schaeffer, Jr.) 816 phanerogams, 152 grasses, and 19 ferns from Pennsylvania and New Jersey (233680).

Muldoon, Charles P., Washington, D.C.: Pair of porcelain *Parula* warblers (233791).

Mullard Limited, London, England: (Through L. A. Curry) replica of Fleming's Valve of 1904 (232229).

Mullmann, T. M. (See Banks, J. T.)

Muma, Dr. Martin, Lake Alfred, Fla.: 10 holotypes and 1 allotype of mites from the U.S. (235817).

Mumford, L. Quincy (See Library of Congress)

Mumford, Russell E., Lafayette, Ind.: Mouse from Guatemala (232836). (See also Purdue University)

Murakami, Dr. Yoshiteru, Ehime-ken, Japan: 39 determined centipedes from Japan (235806, exchange).

Murata, J. (See Interior, U.S. Department of the)

Murch, Robert W., St. Louis, Mo.: 5 philatelic covers bearing Society of

Philatelic Americans' Convention Station markings, St. Louis, Mo., Aug. 19-21, 1960 (233697).

Murchie, Dr. William R., Flint, Mich.: 4 earthworms, syntypes (232924).

Murdoch, Capt. Wallace, San Francisco, Calif.: 35 cockroaches from Japan and Okinawa (234812).

Murphy, Larry B., McGaheysville, Va.: Fragment of cuneiform tablet from Rockingham Co., Va. (231437).

Murray, Mrs. Anne, Washington, D.C.: French meter impression and Belgian cover bearing stamp (234173).

Murray, Mrs. Charles McLean, Sr., Washington, D.C.: Slatted bonnet worn in Virginia in the 20th century (230780).

Murray, Dr. Grover E., Baton Rouge, La.: 9 brachiopods from the Mississippian of Ciudad Victoria in Tamaulipas, Mexico (233270).

Murray, James C. (See Cunard Steam-Ship Co., Ltd.)

Murrell, John H., Dallas, Tex.: 27 silver and electrum Spanish-American Mission Bars and Crosses (234168).

Musée Royal de l'Afrique Centrale, Tervuren, Belgium: (Through Dr. P. Basilewsky) 200 homoptera from Africa (234141); (through Dr. Max Poll and Frederick Berry) fish from the west coast of Africa (231499, exchange).

Musée Royal d'Histoire Naturelle de Belgique, Brussels, Belgium: (Through Dr. J. Verbeke) 4 tachinid flies from the Belgian Congo and Belgium (208581, exchange).

Museo Civico di Storia Naturale "Giacomo Doria", Genoa, Italy: (Through Dr. Enrico Tortonese) 6 sharks from the Mediterranean Sea (228669, exchange).

Museo de Ciencias Naturales, Caracas, Venezuela: (Through Prof. J. M. Cruxent) 24 chipped quartzite objects from El Jobo, Falcón, Venezuela (235612).

Museo de Historia Natural, Montevideo, Uruguay: 31 ferns from Uruguay (232115, exchange).

Museo de Historia Natural "Javier Prado", Lima, Peru: 25 phanerogams from Peru (234072); (through Dr.

Ramón Ferreyra) 140 grasses from Peru (227348).

Museo Ignacio Agramonte, Camaguey, Cuba: (Through Trinidad N. Pino Triana) mounted skin of a Cuban Gar (233337).

Museu Municipal do Funchal, Madeira, Portugal: (Through Dr. G. E. Maul) frogfish (219783, exchange).

Museu Nacional, Rio de Janeiro, Guanabara, Brazil: 291 phanerogams (215681, 226105, 230842).

Museu Paraense Emilio Goeldi, Belém, Brazil: 99 phanerogams (230811, 230856, 232248, 233294).

Museum d'Histoire Naturelle, Geneva, Switzerland: (Through Dr. Hermann Gisin) 2 insects from Switzerland (233525).

Muséum National d'Histoire Naturelle, Paris, France: 7,291 phanerogams, 138 grasses, and 357 ferns from Asia and South America (231747, exchange); (through Prof. Roger Heim) 99 cryptogams from Europe, Cameroons, and Tahiti (229942, exchange).

Museum Zoologicum Universitatis, Helsingfors, Finland: (Through Dr. Walter Hackman) 2 flies, worldwide (231926).

Myers, Mrs. George Hewitt, Washington, D.C.: Castleford urn (233834).

Myers, James F., Springfield, Va.: Bluebird (235780).

Nagaty, Prof. H. F., Cairo, Egypt: 13 slides of trematode worms, including 9 paratypes (231168).

National Aeronautics and Space Administration Grant, Smithsonian Institution: 458 tektites from Lee Co., Tex., and Czechoslovakia and 210 moldavites from Czechoslovakia (231063, 232082, 233267, 233819).

National Fisheries Experiment Station, Yung Do, Pusan, Korea: (Through Bong Nai Lee) fish from Korea (232168).

National Geographic Society—Smithsonian Expedition to Panama Fund: Bark cloth dance costume of Guaymi Indians, Panama (231209).

National Highway Post Office Society, Gorham, Maine: (Through

Bruce Corey) 24 Highway Post Office first day covers (231345).

National Museum, Manila, Republic of the Philippines: 116 phanerogams, 23 grasses, and 1 cryptogam from the Philippines (234078, exchange).

National Museum of Victoria, Melbourne, Australia: (Through Dr. Charles W. Brazenor) 21 minerals from various localities (234947, exchange).

National Pony Express Centennial Assoc., Salt Lake City, Utah: (Through Waddell F. Smith) bronze medal issued in commemoration of the Pony Express Centennial (231638).

National Science Museum, The, Tokyo, Japan: 163 phanerogams, 12 grasses, and 25 ferns (231036, exchange).

Natural Aquarium, Osaka, Japan: (Through Dr. Chûichi Araga) 2 fishes from Japan (234958).

Naturhistorisches Museum, Basel, Switzerland: (Through Dr. E. Gasche) 36 brachiopods from the Cretaceous of Switzerland (233269, exchange).

Naturhistorisches Museum, Bern, Switzerland: (Through Dr. H. Adrian) slice of 105-gram Utzenstorf, Switzerland, stone meteorite (234093, exchange).

Naturhistorisches Museum, Vienna, Austria: (Through Dr. Max Fischer) 64 parasitic wasps from Europe (230615, exchange); (through Dr. Rudolph Petrovitz) 30 scarab beetles from Austria (234941, exchange).

Naturhistoriska Riksmuseet, Stockholm, Sweden: (Through Dr. Sten Ahlner) 42 lichens (234163, exchange); (through Dr. Olaf Gabrielson) blixite from Sweden (230969, exchange).

Neal, Mrs. Paul A., Washington, D.C.: Aquamarine pendant from Brazil (232083).

Nebraska, State of: Division of Sanitation: (Through William F. Rapp, Jr.) 49 fresh-water and land snails from Nebraska (230984).

Needlecraft House, West Townsend, Mass.: (Through Ralph E. Becker) Republican and Democratic sewing kits from the 1960 campaign (236129).

Nelson, Dr. G. H., Loma Linda, Calif.: 26 Buprestid beetles from the U.S. (231924, exchange).

Neerney, William A. (See Knobby Krafters)

Netherlands, Government of, The Hague: *Netherlands Postal and Telecommunications Services*: 14 mint postage stamps of the Netherlands (233567).

New, Todd, Denver, Colo.: Uranium ore from Schwartzwalder Mine, near Golden, Colo. (233516).

New England, University of, Armidale, Australia: (Through Dr. K. S. W. Campbell) 2 brachiopods from the Carboniferous of New South Wales (231891, exchange).

New England Hospital for Women and Children, Boston, Mass.: (Through Dorothea Schmidt) personal memorabilia of Linda Richards, America's first trained nurse (227740).

Newell, Dr. Norman D., New York, N.Y.: 50 brachiopods from the Permian, Spitzbergen, Norway (233740). (See also American Museum of Natural History)

Newman, Alfred E., St. Petersburg, Fla.: 8 philatelic covers, Maury stamp album of 1872, and miscellaneous memorabilia (233771).

Newman, George H., Manila, Republic of the Philippines: 42 tektites from the Philippines (231676).

Newman, Mrs. Helen B., Washington, D.C.: 1,342 amphibians and reptiles mostly from Virginia, collected by donor's son, including types and paratypes (234713).

Newman, William A., Berkeley, Calif.: 8 shrimps (233087). (See also California, University of)

Newport News Shipbuilding and Dry Dock Co., Newport News, Va.: China plate commemorating launching of U.S.S. *Enterprise* (234462).

New York Botanical Garden, New York, N.Y.: 28 grasses from Venezuela collected by J. J. Wurdack and L. S. Adlerley and 768 phanerogams from various localities (227349, 229055, 231031, 232111, 233540, 235132, 236105, ex-

changes); (through L. P. Politi) 51 cultivated ferns (229583).

Nichols, Prof. M. L. (See Cornell University)

Nicholson, Donald J., Tuxedo, N.C.: 180 fresh-water snails from Bregg's Mill Falls, Henderson Co., N.C. (234449).

Nicholson, Paul C., Jr., (See Nicholson File Co.)

Nicholson File Co., Providence, R.I.: (Through Paul C. Nicholson, Jr.) early file cutting machine (235972).

Nielsen, Mr. and Mrs. E. H., San Diego, Calif.: 10 precanceled stamps (233639).

Nimeskern, Sheila, Washington, D.C.: Yellow-shafted flicker (231000).

Nimitz, Fleet Adm. Chester W., San Francisco, Calif.: Pair of U.S. naval officers' shoulder boards worn by donor (233560).

Nordstrom, Clarence G. (See Ansonia Manufacturing Co.)

Norfolk Museum, Norfolk, Va.: (Through Roger Rageot and William E. Old, Jr.) 2 fishes from lower Chesapeake Bay (230915, exchange).

Norris, Mr. and Mrs. Francis A., Silver Spring, Md.: 1904 typewriter (235999).

North, Dr. Alice Mary, Castine, Maine: Oil portrait of Simeon North (233223).

North, Dr. Wheeler J. (See Scripps Institution of Oceanography)

North Carolina State College, Raleigh, N.C.: 37 phanerogams, 2 grasses, and 1 fern from Georgia and North Carolina (233766, exchange).

North Dakota, University of, Grand Forks, N. Dak.: (Through Dr. George C. Wheeler) 9 land snails from North Dakota (232938).

North Dakota Agricultural College, Fargo, N. Dak.: 64 phanerogams, 28 grasses, and 2 ferns (232879, gift-exchange); (through Dr. R. L. Post) 4 vials and 2 slides, paratypes, of thrips from North Dakota (235839, exchange).

Northfield Knife Co., Northfield, Conn.: (Through Howard Gill) 3 devices for making pocket knives (235990).

Northwestern University, Evanston, Ill.: (Through Dr. J. Allen Hynek) 2 Hough registering barometers and a telegraph register (233573, 235070).

Norton Co., Worcester, Mass.: (Through C. H. Quick and Dr. L. B. Sands) calcite from San Sebastian Mine, Charcas, Mexico (235918, exchange).

Norton Co. of Canada, Ltd., Quebec, Canada: (Through E. A. Bradley) crystalon (carborundum) (233825).

Norton, J. E., Manila, Republic of the Philippines: 385 marine mollusks, 11 fishes, 10 insects, marine invertebrates, and a snake from the Philippines (234264).

Norway, Government of: Norwegian Embassy: (Through Elovius Mangor) 12 mint postage stamps of Norway (232281, 235136, 235317).

Norweb, R. Henry, Cleveland, Ohio: Elizabeth II gold sovereign, 1957, and 2 Colonial coins (231227, 232217).

Norweb, Hon. and Mrs. R. Henry, Cleveland, Ohio: 5 gold coins issued in Lima, Peru, 1960 (236062).

Ocheltree, Mrs. Anna Jennette (deceased): (Through John B. Ocheltree) Greek embroidered table runner (233456).

Ocheltree, John B. (See Ocheltree, Mrs. Anna Jennette)

O'Connor, William E., Newark, N.J.: Loudspeaker unit (232414).

Oglesby, Larry C., Berkeley, Calif.: 2 slides, types, of a trematode worm taken from an annelid (232556).

Ohio State University, Columbus, Ohio: 3 grasses from Ohio (233440).

Ohio Wesleyan University, Delaware, Ohio: 95 phanerogams and 5 ferns from Iowa and Ohio (236115, exchange).

Oklahoma, University of, Norman, Okla.: (Through Dr. Leon S. Cierezko) 42 gorgonians (231669).

Oklahoma State University, Stillwater, Okla.: 110 phanerogams and 4 grasses from Mexico (232880).

Old, William E., Jr., Norfolk, Va.: 457 miscellaneous marine mollusks and a lot of barnacles (230600); 5 miscellaneous and 56 Japanese Occupation postage stamps (234038). (See Also

Branham, Mrs. Hugh; and Norfolk Museum)

Oliver, Smith Hempstone, Washington, D.C.: Phonograph record (231053).

Olson, Lee, Cleveland, Ohio: Vertical pair of 2¢ Jefferson, Deerfield, Ohio local precancel stamps, one with "OIHO" error and 27 miscellaneous Ohio precanceled postage stamps (232123, 234634).

Oman, Dr. P. W. (See Agriculture, U.S. Department of)

Omwake, H. G., Delaware City, Del.: (Through Mrs. Margaret Blaker) 42 sherds from Sussex Co., Del. (235915).

O'Neil, Mrs. Gilbert M. (See Anderson, Mr. and Mrs. Robbins Battell)

Ontario Department of Mines, Toronto, Canada: (Through Dr. W. D. Hicks) 2 eucolites with eudyalite from Ville Dieu Township, Quebec, Canada (231020).

Opie, Ellsworth D., Washington, D.C.: "Bull Moose" bandanna from the campaign of 1912 (232213).

Orel, Jeannette V. (See Zoo-Line)

Orinoka Mills, The, New York, N.Y.: (Through John V. Gurry) Jacquard tapestry (231332).

Ortigas, Francisco, Jr., Manila, Republic of the Philippines: 28 tektites from the Philippines (231674).

Osborn, Dr. Dale J., Lubbock, Tex.: 4 bats from Turkey (233930).

Osborne, Charles M. (See Card & Osborne, Inc.)

Osborne, Mrs. Horace H., Washington, D.C.: Woman's bedgown with cap and pocket of the period 1830 (234896).

Ossining Public Schools, Ossining, N.Y.: (Through Frederick J. Dockstader and Joseph L. Hendrick) Hawaiian and Marshallese fish hooks (234588).

Ostdiek, Rev. Fr. John L., Quincy, Ill.: 9 springtails from Laurel, Md. (233286).

Ostroff, Daniel (See Ostroff, Robert)
Ostroff, Robert and Daniel, Washington, D.C.: Bird skin (232870).

Otis Elevator Co., New York N.Y.: (Through Donald Shannon and Howard Gotthardt) Otis passenger elevator, engine, and freight platform (232978).

Over, Edwin (See Bearden, Dr. Alan J.)

Overment, Alfred P. H. (See Jarvi, T.)

Owen, John T., Estate of: (Through Howard A. Holland) inlay Chinese screen of the 19th century and a grandfather clock given in memory of donor's wife, Dorothy F. Owen (234409).

Oxford, University of, Oxford, England: (Through Dr. L. Chalk) 185 wood samples, 264 phanerogams, and 129 fluid-preserved plants (233685, exchange).

Pacific Marine Station, Dillon Beach, Calif.: (Through Dr. Joel W. Hedgpeth) 3 mollusks, including holotype and paratypes, from Tomales Bay, Marin Co., Calif. (235846).

Pagnotti, Louis J., Pittston, Pa.: Lump of anthracite coal (231805).

Pallot, Mrs. Marion Slater, Gorey District, Jersey, Channel Islands, Great Britain: Coin and postage stamp of Jersey and a postage stamp of Guernsey (231197).

Palmer, Dr. A. R., Washington, D.C.: Marine mollusk from Florida (234156). (See also Interior, U.S. Department of the)

Palmer, Charles W., Westtown, Pa.: 2 plants from Florida (231047).

Palmer, Harold C., Atlanta, Ga.: 2 models of 50 and 60 Palmer Cap-churlong and short range syringe projectors with accessories, and 8 automatic projectile syringes (231940).

Palynological Laboratory, Stockholm, Sweden: (Through Prof. G. Erdtman) 7 slides of wood pollen (231496, exchange).

Pan American Health Organization, Washington, D.C.: (Through Dr. Oswaldo J. da Silva) 47 mosquitoes from Dominican Republic (235809).

Pan American International Oil Corp., New York, N.Y.: (Through Charles W. Hatten) 125 ammonites from the Cretaceous of Nigeria (230802).

Pan American Petroleum Corp., Tulsa, Okla.: (Through Dr. Aural T. Cross) 112 slides of pollen (231745).

Paperlynen Co., Columbus, Ohio: (Through Ralph E. Becker) 20 sun visors and hats from the 1960 presidential campaign (234052).

Parker, Dr. Kittie F., Bethesda, Md.: 28 phanerogams from Mexico (234991).

Patent Button Co., Waterbury, Conn.: (Through David Hart) 3 machines for attaching buttons to garments (235989).

Patrick, John, Berkeley, Calif.: 25 copper, germanium ores from Tsumeb, Southwest, Africa (234598); gold from Nakase Mine, Honshu, Japan (234603); 7 minerals from various localities (235451).

Paulson, Dr. Dennis R. (See Miami, University of)

Pearce, Claude, Arlington, Va.: Wood plane made by W. H. Pond, ca. 1870 (235941).

Pearson, F. M., Baltimore, Md.: 9 items of "Kafir" beadwork and a snuff box from Durban, Natal, S. Africa (232150).

Pearson, James B., Topeka, Kans.: 4 bumper stickers, 2 buttons, and an envelope of pamphlets from the 1960 Kansas election (235932).

Pearson, Mrs. Louise (See Smithsonian Institution)

Pechuman, Dr. L. L., Lockport, N.Y.: 2 flies from Ontario, Canada (234659, exchange).

Peck, Stow and Wilcox Co., Southington, Conn.: (Through F. L. Ashworth) metal shear and single seamer (tin fabricating machines) (235977).

Pecora, W. T., Washington, D.C.: 26 spessartite garnets and 1 morganite from Brazil (233323, exchange).

Pedigo, Norman W., Richmond, Va.: Burmese Buddha statue (232173).

Pelton, Mrs. John T., Washington, D.C.: Inaugural ball dance program, second administration of President McKinley (233298).

Peña, Louis E., Santiago, Chile: 7 butterflies from Chile (234154).

Penn, Dr. George H., New Orleans, La.: Crayfish, morphotype (230731). (See also Hobbs, Dr. Horton H., Jr.)

Pennington, Campbell W., Austin, Tex.: Grass from Mexico (231934).

Pennsylvania, University of, Philadelphia, Pa.: 3 extra-illustrated sets of the Bible, Scott, and Dickens originally owned by B. B. Comegys (235643); (through Dr. Edgar T. Wherry) 6 ferns, 1 phanerogam, and 6 grasses (231034, 232052).

Pennsylvania State University, University Park, Pa.: (Through Dr. S. W. Frost) 9 miscellaneous beetles from Florida (232039).

Perloff, Louis, Winston-Salem, N.C.: 2 kammererites from Turkey and valentinite from France (232003, exchange); 12 minerals from Cherokee Co., Ala., and 10 strengite specimens from Indian Mountain, Ala. (233519, 234594).

Persha, Brian J., Great Falls, Mont.: Infant's silver toy (233509).

Peter, Mrs. Armistead, Jr., Washington, D.C.: Covered ceramic bowl and 3 Persian tiles (232874).

Peters, James V., North Charleston, S.C.: 34 potsherds from Charleston Co., S.C., June 1960 (234799).

Petersen, Cornelius (See Post Office Department)

Peterson, Dr. B. V., Guelph, Ontario, Canada: 399 black flies from North America, including holotypes, allotypes, and paratypes (231009, 231215, 234010, 235827, 235837).

Peterson, James A. (See Shell Oil Co.)

Peterson, Mendel, Washington, D.C.: McKinley "gold bug" pin, 3 Naval Reserve Officer's Training Corps metal insignia of World War II, 4 tokens with costume illustrations of the 19th century, bronze medal of Dr. David Hosack struck at the U.S. Mint, 109 ancient coins and a gold bullion deposit, and 3 tradesman's tokens (233303, 233841, 234520, 234835, 235066, 235997).

Peterson, R. S. (See Health, Education, and Welfare, U.S. Department of)

Petrovitz, Dr. Rudolph (See Naturhistorisches Museum)

Pettibone, Dr. Marian H. (See Gray, Milton B.)

Peyton, Bernard, Princeton, N.J.: 13,502 Peruvian stamps, covers, proofs, essays, color trials, also unmounted ma-

terial in envelopes, associated philatelic material, and miscellaneous unmounted items (233750).

Pflueger, Al, North Miami, Fla.: 6 casts of fishes (226265).

Pharmaceuticals, Inc., New York, N.Y.: (Through James H. Fitzgerald) 2 copper soap-making kettles (235986).

Phelan, Sgt. Thomas F., MacDill A.F.B., Fla.: 45 echinoids and 7 Foraminifera from the Tertiary of Florida (231893).

Phelps, Dr. William H., Caracas, Venezuela: Bird skin (233678).

Philip, Dr. Cornelius B., Hamilton, Mont.: 56 mosquitoes from Missouri (234609).

Philip, Mrs. Hoffman, Santa Barbara, Calif.: Gun, 4 pistols, 6 knives and swords in sheaths, ceramic statuette, silver buckle, and an Albanian knife (231888).

Pierce, Dr. E. Lowe, Gainesville, Fla.: 10 crustaceans, 23 mollusks, and 2 lots of corals (232550).

Pierce, Lt. John R., Annapolis, Md.: Envelope addressed to Mrs. John R. Pierce and canceled aboard the U.S.S. *John R. Pierce* from Ensign J. T. Pierce (234041).

Pietsch, W. Randolph, Washington, D.C.: Silk banner from the Allied Bazaar held in Chicago in 1918 (232885).

Pino Triana, Trinidad N. (See Museo Ignacio Agramonte)

Pinson, William H., Cambridge, Mass.: Tektite from Martha's Vineyard, Mass. (234702, exchange).

Pitt, Robert W., Bradenton, Fla.: 141 precanceled stamps of Florida and 9 British West Indies covers (235661).

Plumpton, Mrs. V. W., Washington, D.C.: Half section of a double-woven Jacquard coverlet, 1849 (232964).

Plyler, Thomas, Statesville, N.C.: Muscovite from Alexander Co., N.C., and amethystine quartz (231026).

Pocock, Alfred E., Oxford, Ohio.: 35 envelopes bearing American college corner inscriptions (231493).

Poggie, John J., Jr., Baton Rouge, La.: 23 phanerogams and 6 grasses from Mexico (232342, 234698).

Poland, Government of, Warsaw: (Through ARS Polona) 74 mint postage stamps and meter impressions of Poland (233695, 236161). *Polish Embassy:* (Through Dr. Adam Bonarski) 4 stamps honoring the Centennial of Ignacy Paderewski's birth (234638).

Politi, L. P. (See New York Botanical Garden)

Poll, Dr. Max (See Musée Royal de l'Afrique Centrale)

Pollak, Mrs. Virginia Morris, New York, N.Y.: Wooden statute of an ibis from Egypt and carved wooden eagle and stand, added to Arther Morris collection (233673, 235945).

Pollard, Mrs. W. H., Portland, Oreg.: Presidential campaign button with pictures of William McKinley and Theodore Roosevelt, 1900 (231119).

Polska Akademia Nauk, Lubicz, Cracow, Poland: 108 phanerogams, 3 grasses, and 2 ferns from Poland (231455, exchange).

Porter, Lenore E., New York, N.Y.: (Through Ralph E. Becker and India & Holy Land Crafts) 61 pins and scarves from the Republican 1956 and 1960 campaigns (236123).

Porter, Ralph C., Arlington, Va.: Bandanna with inscriptions "Roosevelt" and "Johnson" (235927).

Portobello Marine Biological Station, Portobello, New Zealand: (Through Dr. Cadet Hand) 6 sea anemones, paratypes (231642).

Post, Dr. R. L. (See North Dakota Agricultural College)

Post Office Department, Washington, D.C.: 2 dolls (232193, 234618); (through Greever Allan) 384 mint foreign postage stamps and souvenir sheets per U.P.U. Bulletin Nos. 10 and 11, 1960 (231365); 359 foreign mint postage stamps and a souvenir sheet per U.P.U. Bulletin No. 14, July 26, 1960 (232245); 203 foreign mint postage stamps per U.P.U. Bulletin No. 18, Sept. 23, 1960 (232899); 277 foreign mint postage stamps per U.P.U. Bull. No. 20-IV, Oct. 25, 1960, and a Canal Zone stamp of 4-cents per letter, Feb. 10, 1961 (234545); 223 mint foreign postage stamps and 2 souvenir sheets per U.P.U.

Bull. No. 25-IV, Dec. 27, 1960, 365 mint foreign postage stamps, 9 souvenir sheets, and 4 meter impressions per U.P.U. Bull. No. 2-IV, Jan. 27, 1961 (235191); (through Cornelius Petersen) 248 mint foreign postage stamps per U.P.U. Bull. No. 8, Apr. 22, 1960 (230318); postage meter and 361 mint postage stamps and souvenir sheets, per U.P.U. Bull. No. 16, Aug. 23, 1960 (232375); 368 mint foreign postage stamps per U.P.U. Bull. No. IV, Feb. 24, 1961 (235423).

Pough, Fred, New York, N.Y.: 3 minerals from Spain (235449).

Powell, Guy C. (See Alaska Department of Fish and Game)

Powell, Jerry A. (See California, University of)

Pratt, Dr. Harry D. (See Health, Education, and Welfare, U.S. Department of)

Pratt, Dr. John J., Jr. (See Defense, U.S. Department of)

Pray, Mrs. Helen Canterbury, De Bary, Fla.: 20 hand-wrought rugs (232557).

Prentice, G. E., Mfg. Co. (See G. E. Prentice Mfg. Co.)

Price, Dale, Cambridge, Md.: Persian helmet (235567).

Price, Douglas W., Davis, Calif.: 4 insects, including topotypes, from California (234013, 234152).

Princeton University, Princeton, N.J.: (Through Dr. Erling Dorf) 2 plants from the Devonian of Canada and Wyoming (231892, exchange); (through Dean Howard Menand) collection of antique electrical equipment (232729); (through Dr. S. K. Roberts) 8 crustaceans (232299); (through Dr. A. G. Shenstone) 8 pieces of antique electrical equipment (232728).

Proctor, George R. (See Institute of Jamaica)

Progressive Manufacturing Co., Torrington, Conn.: (Through William H. Herpich) 3 screw-making tools (235981).

Provincial Museum, Victoria, B.C., Canada: (Through Dr. Adam F. Szcawinski) 18 lichens collected by Dr. Szcawinski (231523).

Pschorn-Walcher, Dr. H., Delemont, Switzerland: 32 parasitic wasps from Central Europe (235015).

Puerto Rico, University of, Mayaguez, Puerto Rico: (Through Dr. Virgilio Biaggi, Jr.) collared turtle-dove (230995).

Purdue University, Lafayette, Ind.: (Through Russell E. Mumford) 146 small mammals from Indiana (233221).

Quate, Dr. L. W., Honolulu, Hawaii: 3 moth flies, including holotypes, from Nebraska and Wisconsin (234023).

Queensland, University of, Brisbane, Australia: (Through Dr. W. G. H. Maxwell) 7 brachiopods from Queensland (231014, exchange).

Queensland Institute of Medical Research, Brisbane, Australia: (Through R. Domrow) 2 mites, paratypes (230889).

Quick, C. H. (See Norton Co.)

Quie, Mrs. Albert, Silver Spring, Md.: Harrison-Morton political campaign bandanna (230858).

R. B. Associates, Los Angeles, Calif.: (Through Ralph E. Becker) 4 "travel-trash baskets" for the Republican 1960 elections (236127).

Radio Corporation of America, Camden, N.J.: 3 Victor talking machines (231954).

Radovsky, Frank J., Berkeley, Calif.: 38 slides of parasitic mites from California (232030).

Rageot, Roger (See Norfolk Museum)

Rancho Santa Ana Botanic Garden, Claremont, Calif.: 129 phanerogams from the Pacific Coast and Mexico (233541, 234620, exchanges); (through Dr. Sherwin Carlquist) 100 microscope slides of wood (235632, exchange).

Rand Corp., Santa Monica, Calif.: (Through Keith Uncapher) 2 electrostatic storage electron tubes (234833).

Randall, James P., Fort Lauderdale, Fla.: German medal (232969).

Randall, Dr. John E., Miami, Fla.: 50 fishes, 3 shrimp, and 19 sea anemones from various localities (230728, 231413, 231644, 232012, 232013, 232231, 232486). (See also Miami, University of; and Virgin Islands National Park)

Ransford, James A. (See Tidewater Oil Co.)

Rapp, Andrew, Morton, III.: (Through Ralph E. Becker) 15 pottery items from the 1960 presidential campaign (234165).

Rapp, William F., Jr. (See Nebraska, State of)

Rasetti, Dr. Franco, Baltimore, Md.: 200 trilobites from the Upper Cambrian of Tennessee (235381).

Rathjen, Warren F. (See Interior, U.S. Department of the)

Rausch, Dr. Robert (See Health, Education, and Welfare, U.S. Department of)

Rawls, John L., Vienna, Va.: U.S. naval hatchet of 1870-80 (231417).

Rawson, Dr. G. W., New Smyrna Beach, Fla.: 8 flies and 12 moths from Florida (235888).

Raymond, Mrs. Olga E., New York, N.Y.: 793 modern coins of the world (234049).

Read, Rear Adm. Albert C., Washington, D.C.: Navy wrist watch worn by donor on the flight of the NC-4 to Europe, 1919, and a silver plane model (233563).

Reddiah, Dr. K., Port Erin, Isle of Man, Great Britain: 22 copepods, paratypes (233451).

Redfearn, Paul L., Jr., Springfield, Mo.: 70 bryophytes (231816, exchange).

Redman, Mrs. A. R., Long Beach, Calif.: Photograph of the survivors of the Greeley Expedition, 1886 (232883).

Reed, A. Bradford (See Reed Rolled Thread Die Co.)

Reed, Dr. Clyde (See Elgert, Gerald)

Reed, Richard E. (See Maine Sardine Council)

Reed, Dr. T. H. (See Smithsonian Institution)

Reed Rolled Thread Die Co., Holden, Mass.: (Through A. Bradford Reed) 3-roll machine for rolling threads on tubular sections (235991).

Reese, Ernst S. (See California, University of)

Reese, Dr. William D. (See University of Southwestern Louisiana)

Rehder, Dr. Harald A., Washington, D.C.: 35 marine and fresh-water mol-

lusks from Baja California, California, and New York (234006).

Reid, A. W., Franklin, N.C.: Rhodolite from Franklin, N.C. (233675).

Reid, Irving (See W. W. Cross & Co.)

Reifsnider, Bertha, Hudson, Ohio: Masonic sword, scabbard, and part of a nine snowball overshot coverlet (230504).

Reig, Dr. Osvaldo A. (See Universidad Nacional de Tucumán)

Reinbothe, Lt. Col. Alfred H., Floral Park, L.I., N.Y.: 1896 political campaign badge (231051).

Reiser, Hillard N. (See Interior, U.S. Department of the)

Renfro, Mrs. Ruby F., Estate of: (Through Oliver W. Fannin, Jr.) 50,000 fossils from the Pennsylvanian, Permian, and Cretaceous of north central Texas, also from Europe (226024).

Renfro, Charles A., Eureka Springs, Ark.: 300 invertebrate fossils from Eureka Springs quadrangle, Middle Devonian of Arkansas (232300).

Republic of Guinea, Government of, Conakry: (Through L'Agence Philatelique de la Republique de Guinea) first day cover bearing 5 stamps commemorating the Olympic Games, Rome, 1960 (233030).

Republican National Committee, Washington, D.C.: (Through Gus Miller) collection of material from the Republican campaign of 1960 (235650).

Republican State Headquarters, Columbus, Ohio: 18 Republican buttons and literature of the 1960 campaign (236136).

Rettenmeyer, Carl W., Lawrence, Kans.: 522 parasitic flies from Panama (231008). (See also Kansas, University of)

Reynolds, W. H., Sr., Silver Spring, Md.: 7 pieces of materials testing equipment (235635).

Rhymer, Daniel I., Washington, D.C.: 17 mammals from Tennessee and Virginia (235788).

Richards, Dr. O. W. (See Imperial College of Science and Technology)

Richards, Mrs. Sarah Trone (deceased): (Through Mrs. L. E. Delaney)

wooden doll of the 19th century (231368).

Richmond, Adm. A. C. (See Treasury, U.S. Department of the)

Richmond, Ben, Silver Spring, Md.: Doll carriage (234615).

Riggin, Prof. G. T., Jr., Greenville, S.C.: Holotype of trematode worm (232981).

Riggins, Mrs. Maurice Rush, Delray Beach, Fla.: Benjamin Harrison campaign bandanna, given in memory of Andrew E. Rush (231222).

Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands: (Through Dr. A. Diakonoff) paratype of moth from Java (234091, exchange); (through Dr. L. B. Holthuis) 55 crustaceans (232627); 400 isopods and 2 scyllarids (234761, exchange); through Dr. J. van der Vecht) 18 wasps from the Old World (231923, exchange); (through Dr. C. O. van Regteren Altena) 4 fresh-water mollusks from Java (234905, exchange).

Rike, Arthur, Grand Forks, N. Dak.: Indian skeleton from Grand Forks Co., Grand Forks, N. Dak. (235614).

Ring, Bernard, Brooklyn, N.Y.: 3 first day covers of Francis Scott Key stamp with Convention Station cancellations (233029).

Rioul, Dr. M., Caen, Calvados, France: 6 brachiopods from the Mesozoic of France (234440, exchange).

Risk, James, New York, N.Y.: British Crown and medal commemorating the British Exhibition in New York, 1960 (231489).

Risso, Dr. Francisco J. J., Resistencia, Argentina: 6 fishes from the Paraná River, Argentina (230983).

Ritcher, Dr. Paul O., Corvallis, Oreg.: 32 scarab beetles from Texas (232016).

Roback, Dr. Selwyn S. (See Academy of Natural Sciences of Philadelphia)

Robb, Francie, Ann Arbor, Mich.: 6 mint postage stamps of Persia (235367).

Roberts, Mrs. Alfred, Baltimore, Md.: Settee, 2 arm chairs, and piano bench of Louis XV style, and a French boule clock (234164).

Roberts, Frank H. H. (See Smithsonian Institution)

Roberts, Dr. S. K., Princeton, N.J.: Marine mollusk from off St. Davids, Bermuda (232572). (See also Princeton University)

Robertson, I. V. (See Minerva Oil Co.)

Robertson, Dr. Robert (See Academy of Natural Sciences of Philadelphia)

Robertson, Dr. William B., Jr. (See Interior, U.S. Department of the)

Robeson, Harry, Frostburg, Md.: 50 land snails from Maryland (232508).

Robins, Dr. C. Richard (See Interior, U.S. Department of the; and Miami, University of)

Robinson, D. M., Namulonge, Uganda: Paratype of parasitic wasp (232101).

Robinson, M. W. (See M. W. Robinson Co., Inc.)

Rocca Fund 201 C-49, Smithsonian Institution: Twin crystal of chrysoberyl from Minas Gerais, Brazil (235923); wulfenite from Glove Mine, near Tucson, Ariz. (235924).

Rochester, University of, Rochester, N.Y.: (Through Prof. H. R. Childs) electro-dynamometer (234832).

Rockefeller Foundation, Mexico, D.F.: (Through Ing. José Luis Carrillo) 38 insects from North America (232040, exchange).

Rockwell Manufacturing Co., Jamestown, N.Y.: (Through Raymond C. Anderson) 2 voting machines (227298).

Rodgers, Alston (See General Electric Co.)

Rodin, Dr. Robert J., Ithaca, N.Y.: 24 microscope slides of wood (235629).

Rodrigues, Dr. William A. (See Instituto Nacional de Pesquisas da Amazonia)

Roebing Fund, Smithsonian Institution: 152 minerals from the U.S. (229782, 231019, 231027, 231407, 231685, 231686, 231687, 231690, 231903, 232085, 232868, 232948, 232949, 233073, 233656, 234437, 234439, 235460, 235922); 999 minerals from foreign localities (230759, 230797, 230803, 231719, 232628, 232736, 233826, 234034, 234135, 234562, 234859, 235000, 235315, 235447, 235450, 235458, 235459, 235880); 440 minerals from various foreign and U.S. localities

(230227, 230338, 230689, 231497, 232071, 232084, 232324, 232491, 232854, 233676, 233820, 234035, 234036, 234037, 234435, 234584, 234731, 234877, 235878, 235879, 235921).

Roepke, Harlan H., Silver Spring, Md.: 6 minerals from various localities (231021).

Rogers, Charles H., Princeton, N.J.: 5 birds (235677, exchange).

Rogers, Dr. Fred B., Philadelphia, Pa.: Pewter syringe with wooden plunger (234650).

Rohrer, Josephine A., Washington, D.C.: Parian pitcher of the 19th century (235957).

Rojas Poblete, Sergio (See Estacion Nacional de Entomologia)

Romero, R., North Attleboro, Mass.: (Through Ralph E. Becker) 3 pieces of jewelry from the 1960 presidential campaign (236125).

Romisch-Germanisches Museum, Cologne, Germany: Replica of a Roman foot rule (235399).

Roosevelt, Cornelius Van Schaack, Washington, D.C.: High relief 1907 U.S. 20-dollar gold piece given to President Theodore Roosevelt by Augustus Saint-Gaudens (235653); 4 sample coins struck in Formosa by the Central Mint of China, 1949 (236060).

Roosevelt, Jonathan, Cambridge, Mass.: 5 mammals from Kenya Colony, Africa (232844).

Rosales, Dr. Carlos J. (See Universidad Central de Venezuela)

Rosenwald, Lessing J., Jenkintown, Pa.: Astrolabe, ca. 1325 (232129).

Ross, Anthony, Tucson, Ariz.: 4 flies from Arizona (232017).

Ross, Dr. H. H. (See Illinois State Natural History Survey Division)

Ross, Dr. Robert D., Blacksburg, Va.: Disassociated dorsal armor and ventral plates of a fossil fish from the Upper Devonian of Chenango Co., N.Y. (210099).

Rosso, Sam, Centreville, Miss.: 303 land and fresh-water mollusks from Mississippi (215353).

Rosson, E. Watkins, Alexandria, Va.: Portobello ware pitcher (235046).

Rothert, Matt H., Camden, Ark.: 5-dollar note issued in 1830 by the Bank of the U.S. (232475).

Rothschild, Louis S., Washington, D.C.; Jewish prayer book bag (235938).

Rowell, Dr. A. J., Ilkeston, Derbyshire, England: 74 brachiopods from the Paleozoic and Mesozoic of Great Britain (235006, exchange).

Royal Botanic Garden, Edinburgh, Scotland: 2,895 phanerogams collected in Asia by George Forrest (230718, exchange).

Royal Botanic Gardens, Kew, Surrey, England: 1 grass from Ghana (232114); 85 phanerogams, 346 grasses and 93 ferns (233542, 233556, 234805, 236112, exchanges); 2 photographs of phanerogams, types (235623, exchange); (through Dr. C. R. Metcalfe) 14 wood samples (233684, exchange).

Royal Botanic Gardens and National Herbarium, Sydney, Australia: (Through Mary Tindale) fern from Australia (232876); 74 phanerogams and 9 ferns from Australia (234987, exchange).

Royal Swedish Museum of Natural History, Stockholm, Sweden: (Through Dr. K.-J. Heqvist) 20 chalcid flies from Canada and the U.S. (234728, exchange).

Royalty, Mrs. Frank, Santa Paula, Calif.: Watch (226843).

Rozanski, Dr. Edward C., Chicago, Ill.: Mounted portrait of Ignacy Jan Paderewski franked with 4- and 8-cent U.S. Paderewski stamps with first-day cancellation (233696).

Rozen, Dr. J. G., Jr. (See American Museum of Natural History)

Ruckes, Dr. H., Sr., New York, N.Y.: 2 stink bugs, neotropical and nearctic (231412).

Ruckle, Verlin, Loveland, Colo.: 111 Colorado precanceled stamps (231492, 232122).

Rudnick, Albert, San Francisco, Calif.: 16 mites, types (199979).

Ruffner, Mrs. Clarence M. (See Ruffner, 1st Lt. Monroe Stephens)

Ruffner, 1st Lt. Monroe Stephens, New York, N.Y.: (Through Mrs. Clarence M. Ruffner) 30 U.S. Marine Corps

dress uniforms and accessories worn by donor's father (232773).

Ruhoff, Theodore B., Washington, D.C.: 297 miscellaneous U.S. and foreign stamps, covers, postal labels, and 4 coins and 2 bills (234174, 235995, 236154).

Rundin, John A., Pawtucket, R.I.: 2 oil paintings of the Revenue Cutter *Levy Woodbury* (231418).

Russell, John Julian, Alexandria, Va.: German incendiary bomb and an English poster from World War I (232064).

Russell, W. J. (See S. S. White Dental Manufacturing Co.)

Ruth, D. H. (See Landis Tool Co.)

Ryan, James T., Jr., Washington, D.C.: 3-dollar New Orleans railroad scrip and 11 obsolete 2-dollar bills issued by the State of North Carolina (232968); 18 obsolete notes (233310); 26 miscellaneous U.S. and foreign covers and 70 U.S. "perfin" stamps (234199, 236151); 2 Virginia Treasury 1-dollar notes issued July 21 and October 21, 1862 (235061).

Ryckman, Dr. R. E., Loma Linda, Calif.: 13 bird bedbugs, allotypes, holotypes, and paratypes (233225).

S. S. White Dental Manufacturing Co., Philadelphia, Pa.: (Through W. J. Russell) 98 dental instruments and appliances (232230).

Sabrosky, C. W., Washington, D.C.: 5 picture-wing flies, including holotypes and allotypes, from North America (235886).

Sagle, L. W. (See Baltimore and Ohio Railroad Co.)

Sailer, Dr. R. I. (See Agriculture, U.S. Department of)

St. John, Dr. Fordyce B. (See Eclat Club, The)

Sakagami, Dr. Sh. F. (See Hokkaido University)

Sakimura, K., Honolulu, Hawaii: 100 thrips from Hawaii (235016, exchange).

Salem Tool Co., Salem, Ohio: (Through J. H. Wilson) mining tools and equipment, collection of catalogs, price lists, advertisements and other data on mining industry (233577).

- Sampaio d'Orey, Dr. José Diogo** (See Jardim e Museu Agricola do Ultramar)
- Sanders, Mrs. Louis P.**, Butte, Mont.: Spanish Coat of Arms (232372).
- Sands, Frederic P.** (See Grace Line Inc.)
- Sands, Dr. L. B.** (See Norton Co.)
- Sane, S. R.**, Bombay, India: 8 fishes from India (235202)
- San Fernando Lodge No. 365, I.O.O.F.**, San Fernando, Calif.: (Through Wiley S. Ball) Gunter's scale (232132).
- Sangster, Jane E.**, Montreal, Canada: Milk snake from Boyds, Md. collected by donor, also 200 mollusks from Maryland (233241).
- Sapporo Medical College**, Sapporo, Hokkaido, Japan, and **Zoller Memorial Dental Clinic**, Chicago, Ill.: (Through Dr. Kazuro Hanihara) 9 models of classifying crown characters of human deciduous teeth (233813).
- Sartenaer, Dr. Paul**, Ottawa, Canada: 14 brachiopods, including types, from the Devonian of New York (231451).
- Sarycheva, Prof. Sh. I.** (See Academy of Sciences of the U.S.S.R.)
- Sauer, Jules Roger**, New York, N.Y.: Rutilated quartz from Brazil (231913).
- Saul, Hyman**, New York, N.Y.: 373 invertebrate fossils from the Devonian of Ghana (235461).
- Sauters, J. D.**, Martins Ferry, Ohio: 3 miner's oil lamps (235038).
- Savage, Mrs. Charles C.** (See Slingluff, Kathleen Dickinson Kernan, Estate of)
- Scanlon, Lt. J. E.**, Washington, D.C.: 69 miscellaneous insects from Japan (235812).
- Scattergood, Dr. Leslie W.** (See Verhoeff, Roger)
- Schaeffer, Prof. Robert L., Jr.** (See Muhlenberg College)
- Scheele, Carl H.**, Washington, D.C.: Philatelic cover bearing Cincinnati Exhibition Station cancellation (234178).
- Schiller, Dr. Everett L.** (See Johns Hopkins University)
- Schlinger, Dr. Evert I.** (See California, University of)
- Schmidt, Dorothea** (See New England Hospital for Women and Children)
- Schmidt, Rear Adm. J. W.**, Media, Pa.: Oil painting of H.M.S. *Centurion* (234064).
- Schneider, Henry J.**, Washington, D.C.: Cedar waxwing (230998).
- Scholl, Robert H.** (See M. W. Kellogg Co., and Esso Standard)
- Schuh, Joe**, Klamath Falls, Ore.: 30 scarab beetles from Oregon (234142).
- Schwartz, Dr. Frank J.** (See Chesapeake Biological Laboratory)
- Schwartz, R. F.**, Solomons, Md.: 1 Kohn's turtle from Jones Point, near Lower Marlboro, Md. (230982).
- Schweizer, Bert, III, and Schweizer, Thomas Wolff**, St. Louis, Mo.: U.S. Army blanket used during the Spanish American War period (233305).
- Schweizer, Thomas Wolff** (See Schweizer, Bert, III)
- Schwengel, Gen. Frank R.** (See Schwengel, Dr. Jeanne S.)
- Schwengel, Dr. Jeanne S.** (deceased): (Through Gen. Frank R. Schwengel) 13 marine mollusks from Florida and Australia, including 3 new species, also 18 mollusks from the Pliocene of Florida (234220).
- Science Museum**, London, England: (Through G. R. M. Garratt) Round's electron tube (232228).
- Scott, Mrs. Adele** (See Kimball, Samuel Eastman)
- Scott, Ernest, and Co., Inc.** (See Ernest Scott and Co., Inc.)
- Scott, Katherine Kirkwood**, Milledgeville, Ga.: Calash and dress of the 18th and 19th centuries (232298).
- Scott, W. C.**, Gunnison, Colo.: Liebigite from Pitch Mine, Saguache Co., Colo. (233515)
- Scott Williams Mineral Co., Inc.**, Scottsdale, Ariz.: 8 pascoites from Ambrosia Lake District, N. Mex. (233945).
- Scovill Manufacturing Co.**, Waterbury, Conn.: (Through S. T. Williams) 2 attaching machines and a box of tools (235966).

Scripps Institution of Oceanography, La Jolla, Calif.: 29 phanerogams (234567); (through Dr. Thomas E. Bowman) 54,480 amphipods (233989); (through Dr. Abraham Fleminger) 32 crustaceans (232485); (through Dr. Ariel Gallardo) 34 crustaceans (230593); (through Dr. Carl L. Hubbs) 52 shrimps (229324); (through Dr. Martin W. Johnson) 12 copepods, including holotypes, allotypes, and paratypes (232937); (through Dr. W. L. Klawe) 16 miscellaneous phanerogams (235159); (through Dr. Wheeler J. North) 2 shrimps (230985).

Scudder, Dr. H. I., Bethesda, Md.: 2 wasps from local area (231411).

Sea Fisheries Research Station, The, Haifa, Israel: (Through Adam Ben-Tuvia and Dr. Daniel M. Cohen) 3 fishes from the eastern Mediterranean (232873).

Seibel, Lawrence, Washington, D.C.: Portrait medallion of Benjamin Franklin, 1777 (232426).

Seidel, Alvim, Corupá, Santa Catarina, Brazil: 6 phanerogams from Brazil (233557).

Selander, Dr. R. B. (See Illinois, University of)

Simple, Arthur T., Turrialba, Costa Rica: 27 ethnological objects, 4 wooden dippers, and pot from South America and Africa (231211).

Senckenbergische Naturforschende Gesellschaft, Frankfurt, Germany: (Through Dr. Wolfgang Klausewitz) 38 fishes from the Indo-Pacific (231882, exchange); (through Dr. Otto Kraus) millipede, paratype, from El Salvador (232042, exchange).

Sentkoski, Clement, Mount Carmel, Pa.: (Through John Howell) miner's lunch pail (234817).

Service, Charles, Sarasota, Fla.: 2 quartz crystals from North Carolina and agatized coral from Tampa Bay, Fla. (233520, 235920).

Setzer, Dr. Henry W., Washington, D.C.: 7 U.S. and foreign meter impressions (234172).

Seymour, Dr. Frank C., Dighton, Mass.: 45 phanerogams and 84 grasses (216241).

Shafer, Francis A., Cleveland, Ohio: 695 Irish postage stamps, covers, and essays (232974).

Shannon, Donald (See Otis Elevator Co.)

Shaw, Alan B. (See Shell Oil Co.)

Shaw, Dr. Frank R., Amherst, Mass.: 4 flies from Hawaii (232190).

Shearer, Howard E. (See Keystone Lamp Manufacturing Corp.)

Shell Oil Co., Denver, Colo.: (Through Alan B. Shaw) 17 fossil brachiopods from the Mississippian Madison limestone of Montana (233453).

Shell Oil Co., Farmington, N. Mex.: (Through James A. Peterson) 9 invertebrate fossils from Ignacio formation, San Juan Mountains of Colorado (233428).

Shelton Tack Co., Shelton, Conn.: (Through Herbert Holland) tack machine (235979).

Shenstone, Dr. A. G. (See Princeton University)

Shepard, Dr. Harold H., Arlington, Va.: 505 skippers from Africa, Asia, and North and South America (235835).

Shewell, Dr. G. E., Ottawa, Canada: 80 flies from Canada and North America (233149). (See also Canada, Government of)

Shidler, Dr. Jon K. (See Game and Fish Commission of Texas)

Shimaji, Dr. Ken (See Institute of Forest Botany; and Tokyo, University of)

Shimoda Marine Biological Station, Shimoda, Shizuoka Pref., Japan: (Through Dr. H. Hashimoto) 67 intertidal insects from Japan (232955, exchange).

Shipley, Carl L., Washington, D.C.: Invitations, engraved plate, tickets of admission, souvenir programs, photographs, and medal relating to the inaugural ball, Jan. 21, 1957 (231048).

Shlesinger, B. Edward, Jr., Washington, D.C.: Golf ball probably used by President Eisenhower (231223).

Shoemaker, Gene, Hyattsville, Md.: Mustelid shark from the Indian River in Delaware (232232).

Shoemaker, Dr. Hurst H., Beirut, Lebanon: 361 fishes from the vicinity of Lebanon (231977).

Shoemaker, Jon, Kalamazoo, Mich.: 2 slides, type and paratype, of a new species of trematode worm from Michigan (231165).

Shontz, Dr. Charles J., Clarion, Pa.: 243 fishes, 250 mollusks, and 73 insects collected in Burma by donor (231738).

Shulman, W., Livingston, N.J.: 3 minerals from various localities (231461, exchange).

Shumacher, Lt. Larry (See Defense, U.S. Department of)

Shure, Sidney N., Evanston, Ill.: 400 stamps of Israel in complete sheets (232946); 100 Israel Postage Due stamps in Unit IV (222360).

Shuttleworth, Herbert L., II, Amsterdam, N.Y.: Drum-printed velvet carpet sample (232194).

Sieker, William E., Madison, Wis.: 1,362 miscellaneous moths from various localities, and 765 miscellaneous microlepidoptera (231153, 234009, 234446, 234604, exchanges).

Sieling, Fred W. (See Maryland Department of Research and Education)

Sierk, Dr. Herbert A., Jacksonville, Ill.: 46 lichens from Oklahoma collected by donor (234077, exchange).

Sightler, Col. S. B., Jr., Lake Wales, Fla.: 9 U.S. Army officer's uniform and accessories worn by donor (235950).

Silver Wings Fraternity, Harrisburg, Pa.: (Through Russ Brinkley) 34 philatelic covers commemorating the 40th anniversary of the first mail flight, New Brunswick, N.J., to San Francisco, Calif. (232267).

Simmonds, Margaret A., Washington, D.C.: Toy top (233036).

Simonetta, Dr. Alberto (See Florence, University of)

Simpler, Albert A., Philadelphia, Pa.: 17,405 U.S. stamps, 1847-1939 (230683).

Simpson, Dr. G. W., Orono, Maine: 3 weevils from the U.S. (231216).

Singer Manufacturing Co., New York, N.Y.: (Through B. F. Thompson) 142 sewing machines and attachments of the 19th century (235640).

Singman, Bert B., Washington, D.C.: 9 Spanish-American War medals and documents (236050).

Sinkankas, Capt. John, Bayside, Va.: 4 hamburgites from Little Three mine, San Diego Co., Calif., and fluorite from Illinois (231076, 234884, exchanges).

Sisk, Carl M., Hollywood, Fla.: Lincoln-Hamlin campaign medal, 1860 (235054).

Skeels, W. S. (See Aluminum Company of America)

Sladen, Dr. William J. L., St. Paul Island, Pribilof Islands, Alaska: Partial skeleton of a shearwater from St. Paul Island, Alaska (232010). (See also Johns Hopkins University)

Sleyzak, Steve, Warren, Ohio: 12 miscellaneous U.S. precanceled stamps (235421).

Slingluff, Kathleen (See Slingluff, Kathleen Dickinson Kernan, Estate of)

Slingluff, Kathleen Dickinson Kernan, Estate of: (Through Kathleen Slingluff and Mrs. Charles C. Savage) cameo portrait brooch of General Andrew Jackson (231146).

Sloan, Dr. Robert E. (See Minnesota, University of)

Smallwood, Mrs. John P., Falls Church, Va.: Cedar waxwing (230999).

Smith, Dr. Allyn G. (See California Academy of Sciences)

Smith, Dr. Clyde F., Raleigh, N.C.: 40 aphids from Puerto Rico and the U.S. (235805).

Smith, George M. (See Brown University)

Smith, Mrs. George S., Sacketts Harbor, N.Y.: Religious plaque (235944).

Smith, Dr. Leslie M., Davis, Calif.: 26 springtails from the U.S. and Mexico (231462).

Smith, Mrs. Margaret S., New York, N.Y.: Man's long vest of the 18th century (233808).

Smith, Stamford D., San Jose, Calif.: 19 caddisflies from California (235740, exchange).

Smith, W. A., Ilwaco, Wash.: 3 wood fossils from the Tertiary of Washington State (231299).

Smith, Waddell F., San Rafael, Calif.: "Pony Express Package" issued by the National Pony Express Centennial Assoc., 1960, containing 9 items honoring the centennial celebration (233845). (See also National Pony Express Assoc.)

Smithsonian Institution, Washington, D.C.: (See Bishop Museum, Bernice P., also following funds; Bredin, Canfield, National Aeronautics and Space Administration Grant, National Geographic Society-Smithsonian Expedition to Panama, Rocca Fund 201 C-49, Roebbing, Springer, Walcott) (Through Mrs. Eileen McCarthy) 420 miscellaneous philatelic covers, postage stamps, and postage meters (234177); (through Mrs. Louise Pearson) 132 U.S. and foreign envelopes and postal cards (233844). *Deposits:* Mezzotint "Fish Market" by Richard Earlom after the painting by Franz Snyder (233458); personal photograph record (236078); telescope (236086); (through John De Gurse) 9 pieces of U.S. 19th-century postal stationery and a used stamp of Mozambique (236143); (through John Jameson) 47 philatelic stampless covers extracted from the Joseph Henry and Spencer F. Baird files (233051); (through division of philately and postal history staff) 30 mint stamps of Belgian Congo overprinted for use in Congo (236156). *Found in Collections:* 10 geographical maps (231759); double siren (231760); deep sea thermometer holder (231761); signal lamp (231762); watch movement (231952); silver tablespoon (232046); negro doll (232047); ironstone pitcher (232048); 3 telescopes with tripod stand, goggles, and resistance (232066); newspaper "Liberator" (232106); Barbour calculating machine (232128); balance for weighing gases used by Edward Morley, 1893 (232131); power switch (232227); autograph book (233290); electrical apparatus (233317); hydrometer (233318); baking can (234056); catcher's mask (234057); 2 marble specimens from Corsica and Ireland (234595); bottle with whiskey label of 1890-1907 (234614); model of horizontal steam

engine of the 19th century (234648); doll (234820); 2 rimsheds, pot, bowl, soapstone vessel fragment, and fragmentary animal effigy from various localities (234977); Cammann-type stethoscope (235477); Liberty Loan flag awarded to industry in World War I (235639); 51 Japanese Naval and Marine uniform items (235953); chemical storage jar (236090); U.S. Marine Corps proclamation issued during Boxer Rebellion in China (236047). *Made in Laboratories:* Replica of Greek votive tablet and vase (233055); model of broadcasting studio of radio station KDKA (233315); half-models of cow-horn, tank boat of 1834, *Repulse* and *Laura Enos* (234029); photographs of 699 phanerogams, 3 grasses, and 40 cryptogams (236108). *Bureau of American Ethnology:* (Through Dr. Frank H. H. Roberts) dictaphone (236067); (through Mrs. Margaret C. Blaker) 31 Belgian postage stamps (234469). *River Basin Surveys:* Indian skeletal remains from Big Bend Reservoir, Buffalo Co., S. Dak. (232081); 5,153 archeological items and skeletal material from Fall River Co., S. Dak., and Crook and Fremont Cos., Wyo., 1957 (232741); Indian skeletal material from the McNary Reservoir region (233812); (through Dr. Robert L. Stephenson) 160 land and freshwater mollusks from Arkansas and South Dakota (225806). *International Exchange Service:* (Through Jeremiah Collins) 67 miscellaneous foreign covers bearing postage stamps and meter impressions (234468). *Library:* (Through Ruth Blanchard) 3,357 miscellaneous U.S. and foreign stamps, covers, and meter impressions (234464). *Collected:* 3,756 phanerogams, 432 ferns, 392 grasses, and 506 woods collected in the Canal Zone and Panama by John E. Ebinger, 1960, also miscellaneous petrified woods from Panama (233760); 73 millipedes, 62 centipedes, 28 miscellaneous insects, and 6 arachnida from Belgium and Germany collected by Drs. R. E. Crabill, Jr., and R. L. Hoffman (235840); 14,125 marine invertebrates, fishes, mollusks, algae, and fossil inver-

tebrates from Cape Arago, Oreg., collected by Dr. Charles E. Cutress, Jr., and Raymond H. Hays, Jr. (231714); 24 ore samples from Southern Illinois-Kentucky fluorspar mining district collected by Paul E. Desautels (231684); 8 phanerogams, 12 grasses, 94 ferns, and 3,727 cryptogams collected in Mexico by Drs. Mason E. Hale and T. R. Soderstrom (232057); 42 land and fresh-water mollusks from Chiapas, Mexico, collected by Dr. Mason E. Hale, Jr. (234611); birds, reptiles, amphibians, mollusks, and 700 mammals collected by Dr. Charles O. Handley, Jr., and Daniel I. Rhymer in Venezuela (230994); 610 tektites from Manila, Republic of the Philippines, collected by E. P. Henderson (232000); 50 slabs of Mississippian sandstone containing invertebrate fossils, from float blocks in the Blue Ridge Esker, Mich., collected by Dr. Erle G. Kauffman (232863); 100 slabs of rock containing plant fossils, mostly leaf impressions from the Eocene of Alaska, collected by Dr. Erle G. Kauffman (232866); 300 fossils from the Miocene, Scientists' Cliffs, Md., collected by Dr. Porter M. Kier and Erle G. Kauffman (233758); 87 phanerogams, 5 grasses, and 1 fern from Palestine, and 3 phanerogams from Greece collected by Mrs. Eric Kocher (231543); 5,282 marine invertebrates and 8 fishes collected by Mrs. L. W. Peterson (232609); 12,200 mollusks and 3 corals from Jaluit and Kwajelein Atolls, Marshall Islands, also 53 lots of marine invertebrates, 4 lots of fishes, and 4 lots of Foraminifera collected by Dr. Harald A. Rehder (232355); 9 mammals from Virginia collected by Daniel I. Rhymer (235787); 56 items to illustrate the modern Tarascan Indian lacquer industry of Uruapan, Michoacan, Mexico, collected by Dr. W. C. Sturtevant, 1960 (235613); 142 minerals from Southern Norway collected by Dr. George Switzer (235882). *Purchased*: Lithograph of U.S. Gunboat *Chenango* by C. Parsons (217297); 16 replicas of historical apparatus displayed at Cavendish Laboratory (224580); Rittenhouse clock, shelf clock, and a certifi-

cate (228314); 9 replicas of Roman tools (228605); 33 items of machinery and tools (228785); land indenture (229700); pewter porringer made by S. Hamlin (229736); 5 articles of clothing of the 18th century (229927); 2,393 chronometer maker's tools (230288); eagle-back side chair (230695); 13 vises, benches, and shafts with miscellaneous parts (230733); gilded metal eagle, ca. 1830, New York State (231052); 4 Portuguese coins (231054); Turkish quadrant and measuring stick (231062); birdcage and stand of the 19th century (231140); 3 shelf clocks (231229); engraving of celestial and terrestrial globes and armillary sphere (231231); model of drop keel cutter from H.M.S. *Queen Elizabeth* (231724); 2 ancient Greek silver coins (231751); replica of Gatty's thermometer (231758); 3 astronomical models (231763); pantograph and protractor (231764); 31 minerals (231778); oil painting and 21 tools (231930); inkwell and weathervane (231931); Lutheran Church lottery ticket and a Windham City bank note (231948); 5 miscellaneous bank notes of the 19th century (231949); 5-dollar bill issued by the City Bank of New Haven, 1854 (231950) model of Perkins' ice machine (231955); bottle of patent medicine from Nürnberg, Germany (231956); Mueller X-ray tube (231957); 9 pieces of machinery (231980); 2 lithographs by Fritz Glarner and Grace Hartigan (232049); breast pump, clinical thermometer, and 2 18th century feeding bottles (232067); 10 India proof impressions (232126); surveying instrument, hydrometer, horary quadrant, and an astrolabe (232130); 1,577 tektites from the Philippines (232182); 307 phanerogams, 32 grasses, and 48 ferns from the Belgian Congo (232196); 4 scale models of military planes (232216); lathe engine (232221); 30 tools (232223); model of the Steubenville Bridge (232226); piece of fossil Ginkgo wood from southeast of Ellenberg, Wash. (232294); bronze dore and crystal gas light chandelier (232473); chippendale side chair (232474); clock

and clock works (232477); uraninite from France (232492); Fleming electron tube (232756); scale model of Curtiss-Ely plane used in test landing and take-off from the U.S.S. *Pennsylvania* in 1911 (232887); Pennsylvania lottery ticket and uncut four-subject sheet of Windham County bank notes, issued in Vermont (232893); 3 San Francisco Clearing House broken bank bills (232894); model of the Schooner *C. C. Mengel, Jr.* (232898); apatite from Greenwood, Maine (232950); vise (232976); anvil (232977); 63 phanerogams from South Africa (233042); scale model of U.S. ironclad *Benton* (233052); scale model of C.S.S. *Abbe-marle* (233053); reproduction of an electrometer and reproductions of 2 galvanometers (233054); scarificator (233056); dental extraction forceps, infant's bottle, and a surgical instrument case (233057); model of Bollman truss bridge (233058); clock works (233060); 7 clocks (233061); 2 watches (233062); shelf clock (233063); copying machine (233064); clock (233065); model of Fink truss bridge (233066); model of pinkey schooner (233067); scale model of New Haven sharpie, 1885 (233068); model of Coalbrookdale Bridge (233120); George Washington mourning ring (233157); 25 bird skins from Southern Rhodesia (233275); wall and ceiling paneling from Comegys mansion (233291); water color painting "Glacier, Towle and Arneb in the Ross Sea" (233306); Coulomb electrostatic and magnetostatic torsion balances (233316); mural telescope, mining instrument, tide table, and drawing instruments (233319); watch (233320); 2 chiaroscuro woodcuts, "The Martyrdom of Saint Paul and Saint Peter" by Antonio da Trento, and "The Presentation in the Temple" by John Baptist Jackson (233457); 2 Russian goblets of the 18th century, ca. 1750 (233459); 66 wood samples and 66 herbarium vouchers-phanerogams (233464); painting of a surveyor of the 18th century (233466); Heath and Wing odometer of the 18th century (233468); cartoon "This Wonderful Exhibition of Machinery" and British railway cartoon "Effects of the Railroad on the Brute Creation" (233469); 25 locomotive drawings (233470); model of the Norris locomotive works, 1855 (233471); 12 engraved mother-of-pearl counters for playing loo (233535); 2 lithographs, 3 mezzotints, and a drypoint (233536); 8 woodcuts and 2 lithographs (233537); chiaroscuro woodcut, *Da Trento, A.*, after Parmigianino: "St. Matthew" (233538); carriage for 12-pound gun of the Civil War (233558); British naval journal covering the period of the War of 1812 (233562); 2 fleams (233570); globe, ca. 1750, and print, "Cabinet Geometrique," by Le Clive, ca. 1780 (233574); 26 amphibians and reptiles from Columbia collected by Otto Schreiber (233582); pair of iron calipers (233655); pocket sundial and whalebone block (233850); rigged model of schooner *Berbice* (233851); 42 envelopes of ships papers and documents (233852); model of locomotive "Tom Thumb" (233853); 2 caricature prints illustrating the high hair-dos of the 18th century and old prints featuring the corset (233943); model of Pont du Gard Aqueduct (234027); 2 drug jars of the 16th century (234032); 2 drug jars of the 19th century (234033); portrait of a frontiersman (234058); pew paneling, including pew door (234059); level, tap and die set, set of burnishing tools (234060); manuscript appraisal (234061); pair of scales and weights and 2 wood carvings from Bulfinch's New State House (234062); Protestant Reformation painting of James I (234159); 38 woods and 38 phanerogams (234162); spectroscope, surveyor's demicircle, and electrical fragments and box (234201); punch bowl, plate, and blanket (234452); 4 knives and 4 forks (234453); cast-iron plate (234454); 100 ferns from Brazil collected by Father A. Sehnem (234455); model of tug boat *Brooklyn* (234472); model of oil tanker *George Loomis* (234473); model of blockade runner *Fergus* (234474); Davis quadrant, 1738 (234475); pocket sextant (234476); model of a colonial sloop

(234477); model of slave brig *Diligente* (234478); "Hong" bowl of the 18th century (234613); color lithograph, *La Ronde*, by Pablo Picasso (234632); woodcut, *The Virgin in the Clouds and Six Saints*, by John Baptist Jackson (234633); 3 silver and bronze medals and a Confederate States of America note (234641); model of locomotive "Croton" (234645); model of Dunham locomotive (234646); wheelbarrow odometer (234775); lot of silk pieces from 18th-century costumes (234779); papier maché milliner's head, petticoat, Queen Anne apron, and a crewel skirt (234780); 123 ferns collected on Oxford University Exploration Club Expedition to Ecuador, 1960 (234807); artillery powder carrier with inscription "U.S. Arsenal Washington 1827" (234819); 25 ancient and modern coins (234829); 23 Colonial and 18 obsolete U.S. bank notes (234830); replica of Weber electro-dynamometer (234831); steam engine, ca. 1875, and a Judson governor (234834); replica of Hooke's wind vane (234836); late Renaissance wooden clock (234933); color woodcut, *White Boat, Dalmatian Sea*, by Michael Rothenstein (235029); serigraph, *Cottages*, by Robert Freimark (235030); artillery haversack, lanyard, and 12 tools (235040); 2 lobster-tail burgenets of the late 17th and early 18th centuries (235041); American flintlock musket (235042); U.S. Army knapsack of the Civil War period (235043); processional lantern (235050); replica of Robert Hare's apparatus for the recomposition of water (235071); set of Gunner's drawing instruments of the 18th century (235072); torsion balance (235073); reproduction of Weber electro-dynamometer (235251); 142 woods (235252); lantern clock of the 17th century, brass measure, leather covered box, bowl, stoneware strainer, standing salt, 2 forks and a spoon, and a pewter plate (235384); nested metric weights (235393); 12 Babylonian duck weights (235394); 3 nested weights (235395); 2 Dutch rules (235396); German poison scale and coin balance (235397); 13 Ashanti weights (235398); French coin balance and Persian ring weight (235400); Franklin typewriter (235473); colored lithograph of Lincoln Hospital, by Charles Magnus, 1864 (235474); gravure of Sir Luke Fildes, "The Doctor" (235476); whirling table (235478); model of Metropolitan Street railway car #1330, 1898 (235482); model of Shay Geared locomotive, 1893 (235483); model of New York horse car, 1855-60 (235484); axe head, mace head, spear head, and dagger (235558); northwest trade gun (235559); lithograph "Surrender of General Burgoyne at Saratoga," by O. Knirsch (235561); scale model of locomotive "Mikado" (235609); bronze head of Enrico Fermi (235633); collection of sewing items (235637); 87,371 Heteroptera, miscellaneous insects, worldwide (235820); 5 parade torches of the 19th century (235936); door and trim, register, and window trim (235940); 3 scale models of tanks (235946); models of U.S. Navy ironclad USS *Monitor* and Confederate States ironclad CSS *Virginia* (235954); stenograph machine and manual (236001); oil painting of the U.S. Sloop *Albany* (236049); 6 manuscript account books (236051); ancient silver stater struck in the name of Croesus 564-546 B.C. (236063); silver tetradrachm struck at Gela, Sicily, 5th century B.C. (236064); collection of woodworking machines and tools (236065); Ashby tall clock (236071); Edison mimeograph (236072); Gideon Roberts tall clock (236073); Nathan Hale wall clock (236075); shelf clock and Connecticut banjo clock (236076); conical pendulum clock (236077); Willard shelf clock (236079); collection of 17 prints (236080); Martin sun dial (236081); Lavoisier diorama (236082); 7 astronomical prints (236083); sundial noon cannon, ca. 1800 (236085); 16 weights (236087); 19 tools and instruments (236088); reproduction of burning glass, ca. 1790 (236089); English quadrant of the 17th century (236091); 364 phanerogams and 21 grasses collected by G. Troupin in the Belgian Congo (236103); scale model of U.S. fighter plane, P-51C (236118); carpet of the

late 19th century (236119); rigged model of packet ship *Ohio* and of steamship *Savannah* (236167); Davis quadrant, 1760 (236168); model of Mississippi and Ohio River packet barge (236169); rigged model paddle steamer *George Law* (236170); model of steam whale back *Frank Rockefeller* (236171); scale model of New York pilot schooner *Anna Maria* (236172); scale model of side-wheel steamer *Rochester* (236173); Conestoga wagon bells (236174); model of the John Fitch steamboat (236177); Écorché and microscope (236254). (See also Underwood, Col. Henry M.). *Archives*: Tin-foil phonograph record (231061, deposit). *National Zoological Park*: Mounted carrier pigeon, "Global Girl" (232884); lungfish from South America (234202); 5 skins, 23 skeletons and alcoholics, and 3 eggs of birds (235781); (through Dr. T. H. Reed) 29 mammals (236036).

Snow, Dr. D. W., Trinidad, B.W.I.: 15 phanerogams from Trinidad (236113).

Snow, R. A., Liverpool, N.Y.: 24 New York State precanceled stamps (235660).

Snyder, Carl F. (See Commerce, U.S. Department of)

Snyder, Dr. Richard C. (See Washington, University of)

Society of Medalists, New York, N.Y.: Bronze medal by Adlai S. Hardin (235059).

Soderstrom, Thomas R., Washington, D.C.: 165 grasses from Mexico (234070).

Sohn, Dr. I. Gregory (See Levinson, Dr. S. A.; Alexander, Dr. Charles I.; and Interior, U.S. Department of the)

Sokoloff, Alexander (See William H. Miner Agricultural Research Institute)

Solecki, Dr. Ralph, New York, N.Y.: 13 Kurdish items (232170).

Soot-Ryen, Dr. T., Oslo, Norway: 4 fishes (228968).

Soper, E. C., Franklin, N.C.: Rhodochrosite from Argentina (233674).

Soukup, Dr. J., Lima, Peru: 15 phanerogams from Peru (233733).

South African Institute for Medical Research, Johannesburg, S. Africa: (Through Dr. F. Zumpt) 11 vials of lice from South Africa (232037).

South Australian Museum, Adelaide, Australia: (Through Dr. G. F. Gross) 4 true bugs from Australia (232099, exchange); (through Dr. H. M. Hale) 7 ghost moths from Australia (231925, exchange).

South Carolina Wildlife Resources Department, Moncks Corner, S.C.: (Through Robert E. Stevens) 17 fishes collected in South Carolina by Robert E. Stevens (231640).

South Florida, University of, Tampa, Fla.: 200 grasses from Florida (234494).

Souther, E. E., Co. (See E. E. Souther Co.)

Southern California, University of, Los Angeles, Calif.: *Allan Hancock Foundation*: (Through Fred C. Ziesenhenné) 81 marine invertebrates (230344).

Southwell, Charles R. (See Defense, U.S. Department of)

Southwestern Louisiana, University of, Lafayette, La.: (Through Dr. William D. Reese) 92 bryophytes from Canada and the U.S. (233546).

Speed, Mrs. Oscar, Austin, Tex.: Framed campaign ribbon for Henry Clay, 1844 (234166).

Spencer, W., North Plainfield, N.J.: 15 micromounts from Franklin, N.J. (232747).

Sperry, L. P. (See Waterbury Companies)

Spilman, T. J., Washington, D.C.: 75 centipedes and millipedes from Maryland (234147).

Springer, Dr. Victor G. (See Florida State Board of Conservation)

Springer Fund, Smithsonian Institution: 200 fossil blastoids from the Gasper limestone, Moulton, Ala., and 26 fossil echinoderms and invertebrates from Statesville, N.C. (232176, 234132).

Squires, Dr. Donald F. (See American Museum of Natural History)

Squires, Rev. Frank L., Decatur, Ga.: "Pioneer" five shot revolver (231941).

Staatsinstitut für Allgemeine Botanik und Botanischer Garten, Hamburg, Germany: 8 ferns from Fiji (234042).

Stabler, Hugh V., Washington, D.C., and Higginbotham, Jeff, Tazewell, Va.: 233 potsherds, stone and miscellaneous objects from Russell, Washington, Tazewell, and Loudoun Cos., Va. (234978).

Stack, Joseph B., New York, N.Y.: Russian silver ingot of the early 15th century; 2 U.S. silver ingots (232971, 233483); 2 coins struck during the early 6th century by the Vandals (233048); 31 obsolete bank notes (233479, 235064, 235065); satirical medal referring to the unreliable currency issued by state banks after the closing of the Second U.S. Bank, 1857 (233481); obverse die used for the Mary and Henry Darnley marriage medal, 1565 (233767); 511 patterns, experimental and trial numismatic items (234051); 3 American Almanacs of the 18th century containing tables of exchange (234169); 66 ancient and modern, gold and silver, coins (233477, 233478, 233482, 233488, 233489, 233491, 234826, 234827, 234828, 235063, 236057, 236061); 287 miscellaneous historical checks, bank notes, currency bills, and financial documents (233307, 233480, 233484, 233485, 233486, 233487, 233490, 233842, 235062, 235996, 236058).

Stack, Morton, New York, N.Y.: 11 business college notes and 4 proofs of early notes (236053, 236054).

Stack, Norman, New York, N.Y.: 6 drawings by Christian Gobrecht (227176); bronze Canadian Indian treaty medal (236056); Manly and Eccleston medals commemorating George Washington and a facsimile Indian Peace medal struck in 1902 (236059).

Stackelberg, Dr. A. (See Academy of Sciences of the U.S.S.R.)

Stack's, New York, N.Y.: 71 Indian trade beads (231226); 8 billon and 2 silver coins of Portugal (232970); silver medal commemorating John III Sobieski's victory over the Turks at Chotin, 1673, (236055).

Stagg, A. C., Lexington, Ky.: 185 precanceled stamps of Kentucky (233687, 234043).

Stainforth, Dr. R. M., Talara, Peru: 314 Foraminifera, including types, from the Eocene of Equador (231889).

Staley, George G., Fayetteville, Ark.: 30 invertebrate fossils from the Middle Devonian of northwest Arkansas (232301).

Standard Oil Co., Chicago, Ill.: (Through J. C. Ducommun) original Burton-Humphreys experimental still and desk used during their work on thermal cracking (216704).

Stanford University, Stanford, Calif.: 113 phanerogams and 1 grass (233038, exchange); (through E. L. Ginzton) linear electron accelerator unit loading tube and 5 klystrons (233576); (through Dr. Myra Keen) 2 marine mollusks, paratypes, from near LaPaz, Baja California, Mexico (235926, exchange); (through Dr. John H. Thomas) 25 wood samples, 8 herbarium vouchers, and 17 herbarium specimens (231744, 232208, exchanges). *Dudley Herbarium:* 252 phanerogams from Baja California (234076, exchange). *Natural History Museum:* (Through Prof. Donald E. Wohlschlag) 5,528 marine invertebrates, also 60 brachiopods, 200 forams, 1 plant, insects, and geological specimens from Operation Deepfreeze IV collections made by Stanford University personnel (226350).

Starcevic, Anthony E., Washington, D.C.: National Democratic election ticket for 1860 (233297); 18 minerals from Brazil (234909, exchange).

Starck, Walter A., II (See Miami, University of)

State Bureau of Mines and Mineral Resources, Socorro, N. Mex.: Native selenium in sandstone from Poison Canyon, N. Mex. (235445).

Staten Island Historical Society, Richmondtown, Staten Island, N.Y.: (Through Marjorie G. Kerr) X-ray tube stand and tube (228888).

Stecker, M. (See Llubetic, Antonio)

- Steeves, Harrison R., Jr.**, Birmingham, Ala.: 4 scarab beetles from Alabama (234556).
- Steinitz, Dr. H.** (See Cape Haze Marine Laboratory)
- Stephens, Franklin**, Arlington, Va.: Ludwigite from Cottonwood Canyon, Utah (232002).
- Stephenson, Dr. Robert L.** (See Smithsonian Institution)
- Stern, Dr. William L.**, Washington, D.C.: 112 wood specimens collected in Panama, 1957 (231546); 22 miscellaneous wood specimens (231547, 232198); 609 wood specimens from the Province of Darien, Panama, and 13 beetles from Peru (231933, 233278).
- Stettenheim, Peter**, East Lansing, Mich.: Isopod (235311).
- Stevens, O. L.**, Bladensburg, Md.: 2 radio receivers (235389).
- Stevens, Robert E.** (See South Carolina Wildlife Resources Department)
- Stevenson, George H.** (deceased): (Through Mrs. Richard D. Watson and Mrs. Marion C. Terry) 33 Peruvian aboriginal pottery vessels and a Colonial Peruvian saddle and trappings (234976).
- Stewart, Dr. Duncan**, Northfield, Minn.: 3 invertebrate fossils from Ridgemount, Ontario (234892, exchange).
- Stewart, J. George** (See Architect of the Capitol)
- Stewart, Dr. Robert H.**, Balboa Heights, Canal Zone: 607 marine invertebrates, 2 brachiopods and algae (197052); 400 marine mollusks from the Caribbean coast of eastern Panama (234448).
- Steyermark, Dr. Julian A.** (See Ministerio de Agricultura y Cria)
- Steyskal, George**, Grosse Isle, Mich.: 21 drosophilid flies and 15 sawflies and wasps from the U.S. (231920).
- Stigall, Cecil**, Washington, D.C.: Embroidered table cloth from Germany, 1887-89 (233296).
- Stock, Dr. J. H.** (See Zoologisch Museum)
- Stollnitz, Henry**, Forest Hills, N.Y.: U.S. mint postage stamp, Scott's No. 595 (232755).
- Stone, Dr. Alan** (See Agriculture, U.S. Department of)
- Stone, Dr. Harvey Brinton** (See Eclat Club)
- Stone, Ralph H.**, McLean, Va.: Army officer's uniform of World War I worn by donor (232065).
- Stoops, R. L.**, North Las Vegas, Nev.: Potsherds from Clark Co., Nev. (234396).
- Stoor, Dr. Leo**, University Heights, Ohio: Collection of 547 pipes and smoking equipment, also books on the subject (234565).
- Storck, Mrs. H. F.**, New Rochelle, N.Y.: Pair of men's shoes, 1915 (230887).
- Strandtmann, Dr. R. W.**, Lubbock, Tex.: 53 slides of nasal mites of birds from the U.S. and Thailand (232098, 235025).
- Straus, Ada Gutman** (See Fields, Mrs. Lenore Straus)
- Straus, Edith Gutman** (See Fields, Mrs. Lenore Straus)
- Strelak, Joseph**, Waukegan, Ill.: 50 first day wrappers of the U.S., United Nations, Canada, and the Canal Zone (233846, 236139).
- Stroup, Walter** (See Tarrant, Fred K., Jr.)
- Stschedrina, Mrs. Z. G.** (See Academy of Sciences of the U.S.S.R.)
- Stuart, W. W.**, Des Moines, Iowa: Early storage battery powered flashlight (232621).
- Stubbert, Richard**, Toronto, Ontario, Canada: 38 miscellaneous postage stamps of various countries (233699).
- Sturgeon, Dr. Myron T.**, Athens, Ohio: (Through Dr. Ellis L. Yochelson) 167 gastropods from the Pennsylvanian of eastern Ohio (235009).
- Suess, Dr. H. E.** (See California, University of)
- Summerfield, Hon. Arthur E.**, Washington, D.C.: Letter sent to Dr. Carmichael by way of special air force flight commemorating the 100th anniversary of the Pony Express (231477).
- Summers, W. L.**, Fort Scott, Kans.: 205 precanceled stamps (233690).
- Suomela, Arnie J.** (See Interior, U.S. Department of the)

Sutherland, Minnie Sarah, Washington, D.C.: Chest of drawers attributed to Jonathan Sheldon (235645).

Sutherland, Mrs. W. A., Washington, D.C.: 19 English and China trade porcelains of the 18th century (232957); 10 china articles and a silver teaglass holder of the 18th and late 19th centuries (236066).

Suttkus, Dr. Royal D. (See Cornell University)

Sverdrup, Dr. Thor L., Oslo, Norway: Topaz from Norway (234596).

Swarts, Larry, Long Beach, Calif., and **Lyon, Geoffrey**, New York, N.Y.: Mail order catalog issued by H. Wolf (230873).

Swedish Forest Products Research Laboratory, Stockholm, Sweden: (Through Dr. Julius Boutelje) 44 wood samples (233682, exchange).

Swett, John W., Midland, Tex.: Mercury ore from Mexico (233517).

Sydney, University of, Sydney, Australia: (Through Dr. T. B. H. Jenkins) 101 invertebrate fossils from the Paleozoic of New South Wales, Australia (235925, exchange).

Szczawinski, Dr. Adam F. (See Provincial Museum)

Taft, Charles P., Cincinnati, Ohio: Mandarin robe lined with sheepskin which belonged to Mrs. William H. Taft (234825).

Tagawa, Dr. M. (See Kyoto University)

Tamsitt, Prof. J. R., Bogotá, Colombia: (Through Dr. Coleman J. Goin) 12 frogs from Colombia collected by donor (233792).

Tanner, H. P. (See Wild Heerbrugg Instruments, Inc.)

Tarrant, Fred K., Jr., and **Stroup, Walter**, Saratoga Springs, N.Y.: Bomb of the 18th century (235675).

Tattersall, Dr. Olive S., Hayling Island, England: 25 mysids and 5 lots of decapod larvae (235130).

Taylor, Alice (See Taylor, Martha)

Taylor, Dr. J. S., Port Elizabeth, Union of South Africa: 31 bees and wasps, and 71 flies from South Africa (233282, 235823).

Taylor, L. F. (See Casco Products Corp.)

Taylor, Martha, Washington, D.C., and **Taylor, Alice**, Minneapolis, Minn.: Silk patchwork quilt (232472).

Taylor, Prentiss, Arlington, Va.: 3 examples of handwoven linen, mid-19th century (231416); woodcut, *Gift of Fire*, by Grace Oehser (235992).

Teal, Dr. John M. (See Georgia, University of)

Technicolor Corp., New York, N.Y.: (Through Charles W. Carpenter) plastic mounted display and sample film strips which illustrate the Technirama process of cinematography (233047).

Tenery, Col. John H., Fort Sam Houston, Tex., and **Litsey, John B.**, Dallas, Tex.: 125 invertebrate fossils from the Cretaceous of Texas (235466).

Terry, Mrs. Marion C. (See Stevenson, George H.)

Texas, University of, Austin, Tex.: 5 phanerogams from Mexico (232480); 4 grasses and 34 ferns collected by Robert Merrill King (232632, 233581); 815 phanerogams and 300 grasses from Guatemala and Mexico (234982, exchange).

Texas Christian University, Fort Worth, Tex.: (Through Dr. Neil C. Hulings) 3 crustaceans (225562).

Texas Research Foundation, Renner, Tex.: 43 phanerogams (221709, 232960); (through Dr. C. L. Lundell) 511 grasses from British Honduras and Guatemala (230687).

Thibodeau, Leo T., Arlington, Va.: Sun dial (231961).

Thieret, Dr. J. W. (See Chicago Natural History Museum)

Thomas, Mrs. Eunice B., Bethesda, Md.: Masonic plaque with naval motif believed to have been recovered from the battleship *Maine*, 1898 (234628).

Thomas, Dr. John H. (See Stanford University)

Thomas, Lowell P. (See Miami, University of)

Thomas, Mrs. Roy E., Santa Monica, Calif., and **Meek, Col. Herbert A.**, Malibu, Calif.: Tulip applique quilt, 1855-65 (231442).

- Thomas, W. Donald**, Chelsea, Mass.: Sphinx moth with pupa case from the Dominican Republic (235896).
- Thomas, William W.**, Phnom Penh, Cambodia: 38 bird skins from Formosa (232748).
- Thompson, B. F.** (See Singer Manufacturing Co.)
- Thompson, John R.** (See Interior, U.S. Department of the)
- Thomssen, Richard W.**, Tucson, Ariz.: 6 minerals from Arizona and Colorado (232537); plattnerite on wulfenite from Defiance Mine, Cochise Co., Ariz. (235441, exchange).
- Tidewater Oil Co.**, Washington, D.C.: (Through James A. Ransford) 3 items of pipe line equipment (235969).
- Tigney, E. E.**, Falls Church, Va.: 77 used postage stamps and 5 minor coins of Thailand (235656).
- Tikasingsh, Dr. Elisha S.**, Corvallis, Oreg.: 2 parasitic mollusks, holotypes, from Washington (232352). (See also Trinidad Regional Virus Laboratory)
- Timberlake, Prof. P. H.**, Riverside, Calif.: 133 bees from Ventura Co., Calif. (232033).
- Tindale, Mary** (See Royal Botanic Gardens and National Herbarium)
- Tinker, Spencer** (See Hawaii, University of)
- Tippo, Dr. Oswald**, Boulder, Colo.: 122 woods from South and Central America, British Guiana, and British Honduras (231545, 232050, 232210).
- Tipton, Capt. Vernon J.**, Fort Clayton, Canal Zone: (Through Dr. Phyllis T. Johnson) 521 sucking lice from Panama (231774, 232097). (See also Defense, U.S. Department of)
- Titschack, Dr. E.**, Hamburg, Germany: 2 slides of thrips from Austria and Italy (233832, exchange).
- Titus, Lt. Col. Calvin P.**, North Hollywood, Calif.: Medal of Honor, ribbons and citation, Purple Heart and citation, China Relief Expedition Service medal, and 2 photographs (233840).
- Todd, Dr. E. L.**, Washington, D.C.: 36 miscellaneous microlepidoptera from Kansas (234447).
- Todd, Ruth** (See Interior, U.S. Department of the and LeCalvez, Dr. Yolande)
- Togo Philatelic Agency, Inc.**, New York, N.Y.: 4 mint postage stamps of Togo (230596).
- Tôhoku Imperial University**, Sendai, Japan: (Through Dr. Shôshirô Hanzawa) 90 specimens and 76 lots of Recent Foraminifera, algae, and corals from the Tertiary and Paleozoic of Micronesia, Taiwan, and Japan (235001, exchange).
- Tokunaga, Dr. Masaaki**, Shimogamo, Kyoto, Japan: 28 biting midges from the Pacific (232189).
- Tokyo, University of**, Tokyo, Japan: (Through Dr. Ken Shimaji) 22 woods and 22 herbarium specimens (232201, exchange).
- Tolonen, Karl Eric**, Ft. Myers, Fla.: Right periostic of whalebone whale from Port Charlotte, Fla. (231919).
- Tomlinson, Dr. Jack T.**, San Francisco, Calif.: Barnacle, holotype, from the Pennsylvanian, North of Baldwin, Kans. (236098).
- Toronto, University of**, Toronto, Canada: 367 lichens collected in Canada by Dr. Roy F. Cain (229018, gift-exchange).
- Torsion Balance Co.**, Clifton, N.J.: (Through C. T. Kasline) prescription torsion balance with dial reading (236093).
- Tortonese, Dr. Enrico** (See Museo Civico di Storia Naturale "Giacomo Doria")
- Tosi, Joseph A., Jr.**, San José, Costa Rica: Wood sample (233683).
- Townes, Dr. H. K.**, Ann Arbor, Mich.: 20 wasps, holotypes, from the U.S. (231922).
- Townsend, Mr. and Mrs. Edward N.**, Plandome, L.I., N.Y.: Rocking horse (230861).
- Trace, Timothy**, Peekskill, N.Y.: 2 surveying instruments (231960).
- Trapp, F. W.**, Falls Church, Va.: Sphalerite on prehnite from Arlington Quarry, Loudoun Co., Va. (233253, exchange).

Traub, Col. Robert (See Defense, U.S. Department of; and Bishop Museum, Bernice P.)

Traverse, Alfred, Houston, Tex.: 212 phanerogams and a grass (231040).

Treasury, U.S. Department of the, Washington, D.C.: *Bureau of Customs*: (Through Carl F. White) 352 minerals, cut stones, synthetics, and imitations (231683). *Internal Revenue Service*: 60 firearms and a leather holster (234969, 235948, 236045, 236046); (through Mortimer M. Caplin) 12,000 U.S. Internal Revenue playing card stamps, overprinted (235655); (through Dana Latham) 23,928 stock transfer stamps (231228); 30,100 Revenue and tax stamps (231754, 231755, 232121). *Bureau of the Mint*: 32 coins and medals from the Philadelphia and Denver Mints for 1960 (235494). *Secret Service*: (Through R. H. Habermehl) 9 guns (235569). *U.S. Coast Guard*: (Through Adm. A. C. Richmond) album containing Federal Boating stamps issued under the Act of 1958 (231825).

Trenton, City of, Trenton, N.J.: (Through David S. Davies) 41 foundry relics from the Fisher and Norris works in Trenton (236074).

Triest, Mrs. Willard, Annapolis, Md.; **Metters, Mrs. Robert G.**, Spokane, Wash.; **Kauffman, Mrs. Draper L.**, Long Beach, Calif.; and **Biays, Mrs. E. Tuckerman, and Williams, Mrs. Robert H.**, Washington, D.C.: 197 historical items, including costumes and cultural, political, military, and anthropological materials (234919).

Trinidad Regional Virus Laboratory, Port of Spain, Trinidad: (Through Dr. Elisha S. Tikasingh) 2 sea cucumbers (235190).

Troup, Prentice (See G. E. Prentice Mfg. Co.)

Troy, A. B., Greensboro, N.C.: Staffordshire luster pitcher (233435).

Tryon, Dr. Rolla M. (See Harvard University)

Tsirimonis, Constantin St., Alexandria, Egypt: Christmas card and cover with 24 postage stamps of Monaco,

United Arab Republic, and the U.S. (235657).

Tulane University, New Orleans, La.: 5 grasses from Louisiana (233584); (through Dr. Willis A. Eggler) 32 phanerogams from Paricutin Volcano, Mexico (230345). *Newcomb College*: 7 grasses from Mexico (230169).

Tupaz, Jose, Manila, Republic of the Philippines: (Through Dr. Pablo I. de Jesus) bronze medal, gilt, struck in commemoration of President Dwight D. Eisenhower's visit to the Philippines, June 14-16, 1960 (231514).

Turbocraft, Indianapolis, Ind.: (Through George A. Morrison) turbo jet marine engine (233773).

Turner, George T., Washington, D.C.: 79 miscellaneous U.S. and foreign postage stamps, covers, programs, and a state tax "decal" (234048, 236157).

Turner, Robert M., Washington, D.C.: Connellite from Bisbee, Ariz. (231241, exchange).

Uncapher, Keith (See Rand Corp.)

Underwood, Col. Henry M., Estate of: (Through Earl J. Lombard) plaster models of the East and State Dining Rooms of the White House during the Hoover Administration (234461, gift-purchase).

Union Hardware Co., Torrington, Conn.: (Through L. E. Bees) hoist, grindstone, and a power press (235982).

United Arab Republic, Government of, Cairo, Egypt: (Through Saad El-Chichini) 144 mint postage stamps and first day covers of the United Arab Republic, Egyptian region (233701, 236142).

United Nations Postal Administration, New York, N.Y.: (Through Dr. D. Thomas Clements) complete sheet of each 4-cent and 8-cent "Forestry" postage stamps (232891); 200 United Nations 4-cent and 8-cent postage stamps (234183, 234640); 100 4-cent and 7-cent postage stamps of the United Nations honoring the International Monetary Fund and 100 4-cent and 8-cent postage stamps honoring the International Court of Justice (236137).

United Publishing Co., Inc., Washington, D.C.: (Through Ralph E. Becker) 13 booklets and leaflets supporting the Democratic Party, 1960 (233331).

Universal Oil Products Co., Des Plaines, Ill.: (Through M. P. Venema) 2 models of platforming and polymerization processes, together with illuminated explanatory flow charts of the models and of the Dubbs Thermal Cracking process (235033).

Universidad Central de Venezuela, Maracay, Venezuela: (Through Dr. Carlos J. Rosales) butterfly from Venezuela (234149).

Universidad de los Andes, Mérida, Venezuela: (Through Dr. Harry Corothie) 13 slides of wood (234994, exchange).

Universidad de Montevideo, Montevideo, Uruguay; 16 phanerogams from Uruguay (231600).

Universidad de Oriente, Cumaná, Venezuela: *Instituto Oceanográfico*: (Through Rafael Martínez E.) 5 shrimps with bopyrids (234430).

Universidad de Oriente, Santiago de Cuba, Cuba: (Through Prof. M. López F.) 138 phanerogams, 2 grasses, 5 ferns, and 48 cryptogams (231033); (through Dr. Salvador L. de La Torre) 2 insects, paratypes (222450, exchange).

Universidad Nacional de Trujillo, Trujillo, Peru: 40 phanerogams and 18 grasses from Peru (226528, 227960, 228110, 233220, 233552).

Universidad Nacional de Tucumán, Tucumán, Argentina: (Through Dr. Osvaldo A. Reig) 3 frogs from the Argentine Chaco (233439, exchange).

Universidade do Paraná, Curitiba, Paraná, Brazil: 32 phanerogams from Brazil (233233, 233460); through Dr. Hans Jakobi) 9 crustaceans, paratypes (232141).

Universidade do Rio Grande do Sul, Pórtó Alegre, Brazil: (Through Prof. Dr. D. Closs) 21 invertebrate fossils and fossil plants from the Paleozoic and Triassic of Brazil (225479, exchange).

Universitatis Szeged, Szeged, Hungary: (Through Dr. Pal Greguss) 9 slides of wood (234992, exchange).

Université de Rennes, Rennes, France: 4 isotypes of cryptogams (234988).

Universitetets Zoologiske Museum, Copenhagen, Denmark: (Through Dr. H. Volsøe) 9 deep-sea marine invertebrates, paratypes, and a model of anglerfish collected on the *Galathea Expedition, 1951-52* (232782).

University College of the West Indies, Kingston, Jamaica, West Indies: (Through Dr. Ivan Goodbody) 167 mysids (233339).

University School of Forestry, Brno, Czechoslovakia: (Through Dr. Antonín Vezda) 53 lichens (235619, exchange).

Unklesbay, Dr. A. G. (See Missouri, University of)

Unknown: 10 birds (231212); Aleut wooden halibut hook, probably collected by William H. Dall, 1865-90 (234589); 413 miscellaneous U.S. precanceled stamps (235654); 2 Campanian red-figured vases (235914).

V&O Press Co., Hudson, N.Y.: (Through Neil Van Deusen) V&O power press No. 2A (235984).

Valkeila, Erkki, Hämeenlinna, Finland: 8 bees from Finland (234956).

van der Vecht, Dr. J. (See Rijksmuseum van Natuurlijke Historie)

Van Deusen, Neil (See V&O Press Co.)

Van Doesburg, Dr. P. H., Jr., Paramaribo, Suriname (235822).

Van Dyke, Mrs. Henry, St. Petersburg, Fla.: 374 used and unused postage stamps of Haiti (233313).

Van Gelder, Dr. Richard G. (See American Museum of Natural History)

Van Housen, Clifford, Corning, N.Y.: 15 precanceled stamps (233686).

Van Hyning, O. C., Maitland, Fla.: 28 phanerogams from Mexico (232209).

Van Itallie, Dorus, New York, N.Y.: 2 diamonds from Sierra Leone and Bulfontein Mine, Union of S. Africa (231907).

van Regteren Altena, Dr. C. O. (See Rijksmuseum van Natuurlijke Historie)

Van Wambeke, Dr. L. (See Communaute Europeenne de l'Energie Atomique)

van Wyk, Dr. J. H. (See Forest Research Institute)

Vargas C., Dr. César, Cuzco, Peru: Phanerogam (231935).

Vari-vue Animations, Mt. Vernon, N.Y.: (Through Ralph E. Becker) 12 flash buttons and a series of order blanks from the 1960 presidential campaign (234053).

Vaurie, Mrs. Patricia, New York, N.Y.: 76 insects from Mexico and Central America (222244).

Venema, M. P. (See Universal Oil Products Co.)

Verbeke, Dr. J. (See Musée Royal d'Histoire Naturelle de Belgique)

Verhoeff, Roger, Hunterville, N.C.: (Through Drs. Leslie W. Scattergood and Daniel M. Cohen) set of blue shark jaws (235027).

Vezda, Dr. Antonín (See University School of Forestry)

Vickers, Inc., Waterbury, Conn.: (Through H. J. Viens) hydraulic speed change gear unit (235988).

Viens, H. J. (See Vickers, Inc.)

Villella, A. L., Manila, Republic of the Philippines: 8 tektites from the Philippines (231675).

Virgin Islands Museum, Inc., St. Thomas, Virgin Islands: (Through Mrs. Hugh N. Davis, Jr.) female Negro skeleton (231853).

Virgin Islands National Park, St. John, Virgin Islands: (Through Dr. John E. Randall) 16 sea anemones (235128).

Vogel, Robert, Washington, D.C.: Stereopticon slide showing Mr. and Mrs. William Jennings Bryan (233839). (See also Meyer, Louis F., Jr.)

Volsøe, Dr. H. (See Universitetets Zoologiske Museum)

Von Knorring, Dr. O. (See University of Leeds)

Von Sothen, Carl E. H., and Freda G., Syracuse, N.Y.: Racing bicycle of 1887

and reproduction of French porcelain plate from the Martha Washington state china of the late 19th century, given in memory of Godfrey A. S. Wieners (232558, 234388).

Von Sothen, Freda G. (See Von Sothen, Carl E. H.)

Voous, Dr. K. H. (See Zoologisch Museum)

W. W. Cross & Co., Jaffrey, N.H.: (Through Irving Reid) No. 5 national wire nail machine (234744).

Wade, Mrs. Ella N. (See College of Physicians of Philadelphia)

Wain, H. C., Somers, Conn.: Calcite from Faraday Uranium Mine, Bancroft, Ontario, Canada (233514).

Walcott Fund, Smithsonian Institution: 268 fossil invertebrates from the Jurassic, Tertiary, Paleozoic, and Devonian of France (231018); 1,000 Pennsylvanian invertebrate fossils from the vicinity of Jacksboro, Tex., collected by Dr. G. A. Cooper and Dr. R. E. Grant, May 1960 (231691); 409 foreign invertebrate fossils, including ammonoids, trilobites, brachiopods, echinoids, etc., also 34 fossil dodo bones (232091); 202 vertebrate fossils collected by Dr. Nicholas Hotten, III, and John D. Gassaway in Kansas, Oklahoma, and Texas, May and June 1960 (232425); whale skeleton from Yorktown formation, Miocene, near Hampton, Va., collected by Dr. Nicholas Hotten, III, Dr. Frank C. Whitmore, Jr., and Kurt Hauschildt, Sept. 1960 (232595); 3,000 invertebrate fossils from the Upper Cretaceous of Monmouth formation, Brightseat, Md., collected by Erle G. Kauffman and Henry B. Roberts (232864); 10,000 marine invertebrates from the Miocene of Virginia, collected by Dr. and Mrs. Cooper, H. B. Roberts, and Dr. Druid Wilson, Aug. 5-8, 1960 (233273); 2 fossil ray and gar fishes and a probable fossil booby bird from the Eocene, Green River, Wyo. (234134); 70 fragments of matrix containing bone; also assorted fossil amphibian and fish materials from various localities collected by Dr. Nicholas Hotten, III, and William E.

Moran, Nov. 1960 (234593); 2,500 invertebrate fossils from the Upper Cretaceous, Paleocene, and Eocene of Maryland collected by Erle G. Kauffman, Dr. Norman F. Sohl, and Dr. Harlan Bergquist (235005); 34 brachiopods from the Carboniferous of England (235470); 600 fossil echinoids from the Paleocene of Fort Gaines and Eocene of Clinchfield, Ga., collected by Drs. Porter M. Kier and Druid Wilson (236097).

Waldman Button Co., New York, N.Y.: (Through Ralph E. Becker) 29 pieces of jewelry from the Republican 1960 campaign, also 4 buttons from the 1957 inauguration and the 1960 campaign (235929).

Walker, Dr. Boyd W. (See California, University of)

Walker, Mrs. Ethel V. (deceased); (Through W. J. Horrigan) Jacquard coverlet of the mid-19th century (234386, bequest).

Walsh, Jerome (See Walsh, Mrs. Thomas)

Walsh, Mrs. Thomas, and Walsh, Jerome, Walled Lake, Mich.: Washington commemorative hatchet (236131).

Walstrom, Robert E., Fresno, Calif.: Sanbornite from Esquire Mine No. 1, Fresno Co., Calif. (232998).

Walton, Capt. Bryce C., Fort McPherson, Ga.: 52 isopods (232487).

Wanke, Dr. H., Mainz, Germany: Slice of the Treysa, Germany, iron meteorite (231971, exchange).

Ward, Mrs. Gertrude McHench, Bradenton, Fla.: (Through Alice B. Mackey) Harrison-Reid campaign bandanna (231631).

Ward, Herbert, Guam, Marshall Islands: 110 fishes from Guam collected by donor (231310).

Ward, Richard C., Baltimore, Md.: 2 ferns from Maryland (232200).

Ward's Natural Science Establishment, Inc., Rochester, N.Y.: 12 minerals from Bolivia (233112, exchange); (through David E. Jensen) 2 chalcidony interstitial fillings from Kellogg, Idaho, and 3 quartz specimens with hematite inclusions from Antsiriky, Madagascar (231901, 233265).

Wareham, Ralph E., Chappaqua, N.Y.: Lerochrome National Photocolor One-shot color camera and accessories (232397).

Warfield, Thomas P., Baltimore, Md.: 5-dollar note, Providence, R.I., Bank of the Republic, 1855 and a 10-dollar note issued in 1840 by the Commercial Bank of Millington, Md. (231055, 233309).

Washburn, Dr. Wilcomb E., Washington, D.C.: "The National Clay Almanac, 1845," containing political songs celebrating Henry Clay and excerpts from his speeches, in addition to conventional almanac material (236126).

Washington, University of, Seattle, Wash.: Grass from Washington State (232630); 22 phanerogams from Mexico collected by Stanford, Lauber, and Taylor (233880); (through Dr. William Aron and Dr. Daniel M. Cohen) 3 fishes from the North Pacific (232166); (through Dr. Paul L. Illg) 8 sea plumes (233590); (through Dr. Richard C. Snyder) 5 frogs from Mt. Rainier National Park, Washington (230975, exchange).

Washington State University, Pullman, Wash.: (Through E. P. Breakey) 7 snails from Seaview, Wash. (231405); (through Dr. Maurice T. James) 3 flies, holotypes and allotype (232699).

Wass, Dr. Marvin L., Gloucester Point, Va.: Crab and holotype of a hermit crab (234314). (See also Hulings, Dr. Neil; and Woods Hole Oceanographic Institution)

Waterbury Companies, Waterbury, Conn.: (Through L. P. Sperry) 5 machines for producing uniform buttons and paper boxes (235965).

Waters, Prof. Aaron, Baltimore, Md.: 9 rocks representative of the Columbia River basalts (228089, exchange).

Watkins, Mrs. Charles H., Middleton, Mass.: Russian blouse and wicker settee (234255, 235939).

Watson, Mrs. Richard D. (See Stevenson, George H.)

Weaver, Mr. and Mrs. B. Woodruff, Washington, D.C.: Man's gold watch and chain of the early 20th century (234684).

Weaver, Clifton S., Kailua, Oahu, Hawaii: 4 rare species of mollusks from Australia (233962, 235901, exchanges).

Weaver, Mrs. Margaret, Washington, D.C.: 5 American chairs, candlestand, doublewoven Jacquard coverlet, and an American sofa, ca. 1840, 17th, 18th and mid-19th centuries (233702, 234063).

Webb, George, Hampton, Va.: 36 fossil crabs, 5 mollusks, and 430 gastropods from Virginia (230207, 231896, 233492).

Webb, J. H., Daytona Beach, Fla.: 2 marine mollusks from the Philippines (232339).

Weckesser, Paul P. (See Kepner, C. Fred)

Weems, Dr. Howard V., Jr., Gainesville, Fla.: 221 centipedes from Florida and North Carolina (233530). (See also State Plant Board of Florida)

Weiss, Helena M., Washington, D.C.: 4 foreign covers bearing postage stamps and meter impressions (234466).

Welch, Francis E., Washington, D.C.: 17 miscellaneous philatelic items (234171).

Weller, Prof. R. I. (See Franklin & Marshall College)

Wells, Dr. Harry W., Buxton, N.C.: 5 gastropods, comprising the holotype and 4 paratypes of a new species, from Beaufort, N.C. (233942).

Wells, Loren W., Fayette, Mo.: Sticker and button supporting the Nixon presidential campaign, 1960 (234631).

Wells, Lt. Comdr. William H. (See Defense, U.S. Department of)

Welsh, Peter, Kensington, Md.: Steelyard (233292).

Wence, Herschel E., Terre Haute, Ind.: Baby Wolf safety lamp (235034).

West Virginia University, Morgantown, W. Va.: 123 phanerogams, 3 grasses, and 9 ferns (236102, exchange); (through Elizabeth Ann Bartholomew) 40 mosses from West Virginia (228645).

Wetmore, Dr. A., Washington, D.C.: Bird (232007). (See also Curtis, Karl)

Wetzel, Mrs. Ruth N., Mount Vernon, N.Y.: (Through League of Women Voters of the United States) Christmas

postcard overprinted "Votes for Women" (236130).

Weyrauch, Dr. Wolfgang, Lima, Peru: 87 land and marine mollusks from Peru and Ecuador, including 52 paratypes (230185).

Wheeler, Dr. George C. (See North Dakota, University of)

Wheeler, Dr. Marshall R., Austin, Tex.: 18 flies, including holotypes and paratypes, from North and South America (232026).

Wherry, Dr. Edgar T. (See Pennsylvania, University of)

White, Benjamin, Lexington, Mass.: 2 Quaker bonnets of the 19th century (234254).

White, Carl F. (See Treasury, U.S. Department of the)

Whitehouse, Mr. and Mrs. William, Asheville, N.C.: 4 strengites from Indian Mountain, Ala. (234602).

Whiteley, Mabel W., Baltimore, Md.: 258 sewing birds, clamps, and related needlework accessories, mostly 19th century (235682).

Whitmore, Frank C., Jr. (See Interior, U.S. Department of the)

Wickes, Mr. and Mrs. William W., Washington, D.C.: Aubusson-type carpet (224691).

Wiegeling, William H. (See La Gorce, John Oliver)

Wiesenberger, Arthur, Nippsolm, Pound Ridge, N.Y.: Silver tea caddies and bowl, Japanese calligraphic scroll, and a certificate of authenticity (228995).

Wiggam, Mrs. A. E., Santa Monica, Calif.: 26 land patents entered under an act of March 3, 1855 in memory of Albert Edward Wiggam, donor's husband (235055).

Wighton, Mrs. Howard P., Silver Spring, Md.: Quail (236026).

Wigley, Dr. Roland L. (See Interior, U.S. Department of the)

Wike, John W., Adelphi, Md.: 106 U.S. Army insignia (232119).

Wild Heerbrugg Instruments, Inc., Port Washington, N.Y.: (Through H. P. Tanner) Theodolite, Universal, Wild T2 model 56, T2 Theodolite horizontal circle, and Theodolite, Wild (231959).

Wilhelmson, C. A., Redwood City, Calif.: Screwdriver (233774).

Wilkerson, T. V., Jr., Oakland, Calif.: 2 planchet strips used in 1943 for the manufacture of zinc-coated steel cents (232895).

Wilkes, James C. (See Witman, Mrs. Mabel Foote, Estate of)

Wilkey, Richard, Sacramento, Calif.: 10 slides of springtails from California (233284).

William H. Miner Agricultural Research Institute, Chazy, N.Y.: (Through Alexander Sokoloff) 321 beetles from New York (232187).

Williams, Dr. Alwyn, Belfast, Ireland: 251 brachiopods from the Girvan district, Ordovician of Scotland (231890).

Williams, Mrs. Edgar, Akron, Ohio: 2 souvenir badges from the Republican nominating convention picturing Gen. Charles Dick, with Mark Hanna and President McKinley, 1900 (231937).

Williams, Mrs. Edward, Wayne, Pa.: Wedding dress of 1911 (231400).

Williams, Mrs. Grace D., Washington, D.C.: 2 pins from William McKinley's campaign, 1896 (231872).

Williams, Dr. Louis O. (See Chicago Natural History Museum)

Williams, Mrs. Robert H. (See Triest, Mrs. Willard)

Williams, S. T. (See Scovill Manufacturing Co.)

Willis, Dr. Ben S. (See Iowa, State University of)

Wilson, Mrs. Catherine, Miami, Fla.: 2 phanerogams from Costa Rica (234806).

Wilson, Lt. Col. Ernest W., Arlington, Va.: Nazi German banner and sash (232063).

Wilson, Floyd, Micaville, N.C.: Brochantite from Cerro Gordo District, Inyo Co., Calif. (232088).

Wilson, J. H. (See Salem Tool Co.)

Wilson, R. Thornton, New York, N.Y.: Oriental Lowestoft cider jug bearing inscription "Jefferson and Liberty" (235956).

Wilson, Dr. Thomas K. (See Cincinnati, University of)

Wiman, Virginia, Washington, D.C.: Complete U.S. postal note bearing a 1-cent postal note stamp canceled on first day of operation, Feb. 1, 1945 (236138).

Wing, Chester E., Hastings, Mich.: 3,052 miscellaneous U.S. precanceled stamps (235267, 235659).

Winters, H. H., Berkeley, Calif.: 9 archeological items from Sterling City, Tex. (234800).

Wisconsin, University of, Madison, Wis.: 4 grasses from Alaska (220700); (through Prof. A. H. Easton) model of heat engine laboratory (234028); (through Prof. Arno T. Lenz) Ellis current meter (231958).

Withers, Gilbert W., Atlanta, Ga.: Rutilated quartz from Brazil (235881).

Witman, Mrs. Mabel Foote, Estate of: (Through James C. Wilkes) 3 painted Pennsylvania chests of the 18th century (235942, bequest).

Witt, William L., Arlington, Va.: 191 fishes from Okinawa, also 41 crustaceans, 170 mollusks, 51 insects, and a gecko lizard (225567). (See also Defense, U.S. Department of)

Wohlschlag, Prof. Donald E. (See Stanford University)

Wolf Safety Lamp Co. of America, Inc.: Brooklyn, N.Y.: (Through D. Anglada) 9 Wolf safety lamps and 2 hand magnets, 1903-54 (235037).

Wood, D. M., Hamilton, Ontario, Canada: 175 black flies from Ontario (235828).

Woodring, Dr. Wendell P., Washington, D.C.: 485 marine mollusks from Payardi Island, Atlantic Coast of Panama (232184).

Woodruff, Mrs. Walter C., Brownville, N.Y.: 2 dolls of the 19th century (230771).

Woods Hole Oceanographic Institution, Woods Hole, Mass.: (Through Dr. Robert J. Conover) 28 copepods (230218); (through Dr. George D. Grice, Jr., and Dr. Marvin Wass) 115 crustaceans (230761).

Woods, Loren P. (See Interior, U.S. Department of the)

Woodward, Dr. T. E., Brisbane, Australia: True bug from New Guinea (232188).

Woody, Ward, Sr., Green Mountain, N.C.: Staurolite from Green Mountain (231678).

Woolston, Evelyn May, Los Angeles, Calif.: Coral and pearl necklace, 19th century (232798).

Worth, Anthony L., Highland Park, Mich.: 12 minerals from Scofield, Mich. (231908).

Worth, Dr. C. Brooke, New York, N.Y.: Paratype of a mosquito from Ndumu, Natal (233279).

Wright, Grace S., Washington, D.C.: Ford's Theatre playbill for the night of Abraham Lincoln's assassination (232215).

Wright, Henry T., Annapolis, Md.: 68 pre-ceramic and ceramic archeological items from Newcastle Co., Del. (235611).

Wright, Dr. Stillman (See British Guiana Department of Agriculture)

Wykes, Gordon E., Albany, N.Y.: Pin with the name "Daisy" inscribed, 1894 (230807).

Yaffe, Paul, Baltimore, Md.: 2 minerals from Canada and New Mexico (235527, exchange); enargite from National Belle Mine, Red Mountain, Colo. (231238, exchange).

Yale University, New Haven, Conn.: 39,204 cryptogams representing the herbarium of A. W. Evans (231208, exchange); 58 wood specimens from Peru collected by F. Woytkowski, 1959 (232202, exchange); 647 wood specimens (232203, 234809, 234810, exchanges). *School of Forestry*: 21 phanerogams from the Florida Keys (231029); 80 wood samples and 65 herbarium vouchers (231743, 231746, exchanges).

Yannone, Michael A., Washington, D.C.: German bayonet, scabbard, and scabbard frog, ca. World War II (232062).

Yasumatsu, Dr. K. (See Kyushu University)

Yedlin, Neal, New Haven, Conn.: Yedlinite from Newry, Maine and 4 anatase crystals from British Guiana and New Hampshire (233824, 235752).

Yerdon, Lucile, Fort Plain, N.Y.: Sign from the campaign of 1892 (231784).

Yochelson, Dr. Ellis L. (See Heidecker, Eric; Interior, U.S. Department of the; Sturgeon, Dr. Myron T.)

Yohn, Mrs. Clarence Milton, Washington, D.C.: 3 antique samplers, unfinished patchwork quilt, a man's shawl of the Civil War period and a silver knife and fork from the Philippine Islands (235642, 235913).

Yunker, Dr. Conrad E., Balboa Heights, C.Z.: 15 mites from Florida and California (231005). (See also Health, Education, and Welfare, U.S. Department of)

Yust, Harold R., Khartoum, Sudan: 112 miscellaneous insects from Peru (235834).

Zaneveld, Dr. J. S. (See Caribbean Marine Biological Institute)

Zemanek, A. F., Newgulf, Wharton Co., Tex.: 2 sulfur crystals in calcite (235164).

Ziesenhenne, Fred C. (See Southern California, University of)

Zimmerman, Elwood C., Petersborough, N.H.: 74 miscellaneous insects, mostly Lepidoptera, from New Hampshire (234145).

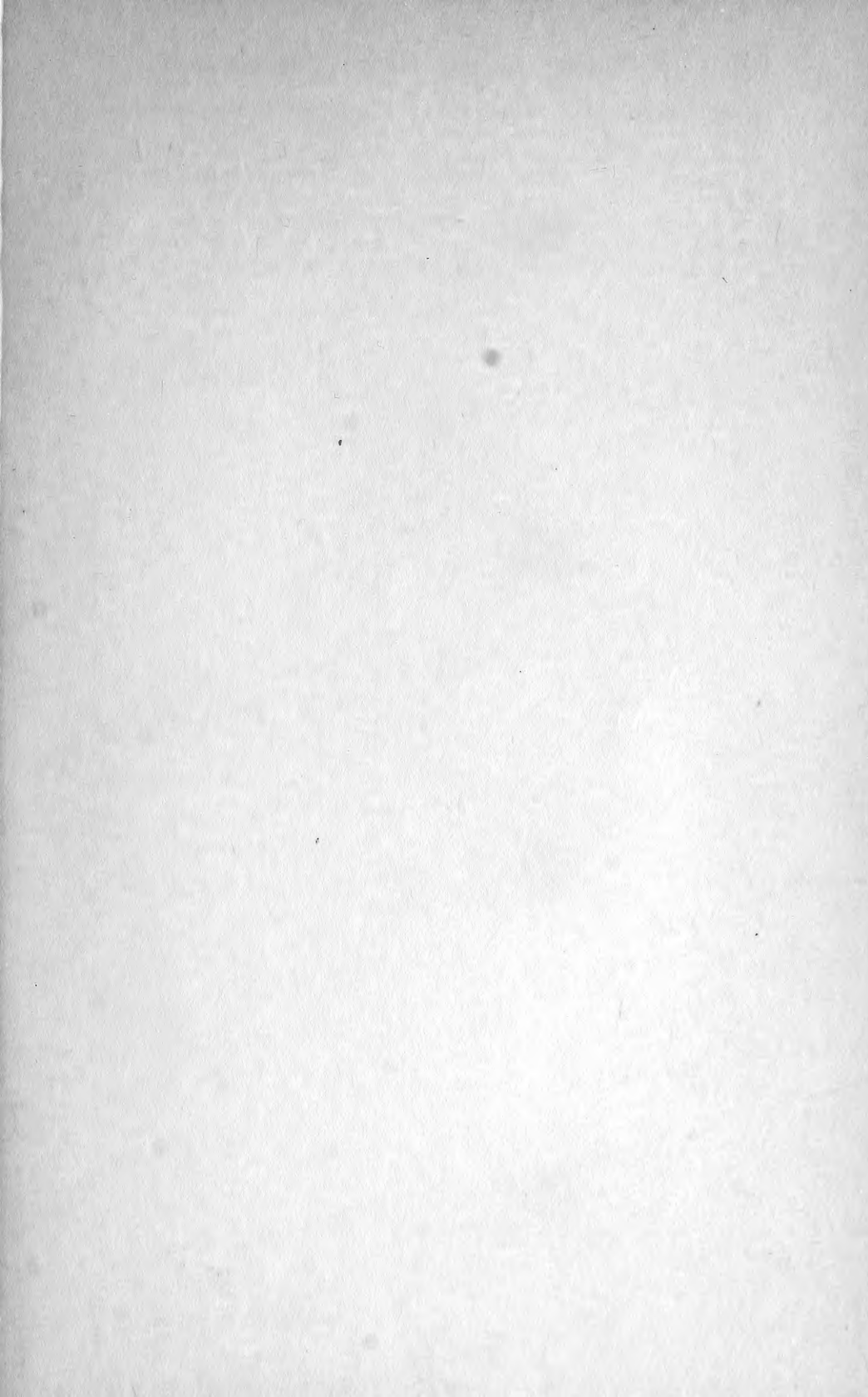
Zoller Memorial Dental Clinic (See Sapporo Medical College)

Zon, Mrs. Henry, Washington, D.C., and **Bacas, Mrs. Harry**, Arlington, Va.: 12 items of costume of the late 19th and early 20th centuries (234865).

Zoo-Line, Hollywood, Calif.: (Through Ralph E. Becker and Ore, Jeannette V.) 3 "Republiphants", 3 "Democronkeys," and 3 monkeys from the 1960 presidential campaign (236120).

Zoologisch Museum, Amsterdam, Netherlands: (Through Dr. C. A. W. Jeekel) 9 toad bugs from Melanesia (230863, exchange); (through Dr. J. H.

<p>Stock) gorgonian and 2 parasitic copepods, paratypes (229230, 233588); (through Dr. K. H. Voous) 2 loons and 10 ducks from Holland (228870, exchange).</p> <p>Zoologische Sammlung des Bayerischen Staates, München, Germany: (Through Dr. H. Freude) 2 beetles,</p>	<p>cotypes, from South America (235241, exchange).</p> <p>Zoologisches Forschungsinstitut, Bonn, Germany: (Through Prof. Dr. M. Eisentraut) 17 small mammals from Africa (230769, exchange).</p> <p>Zumpt, Dr. F. (See South African Institute for Medical Research)</p>
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