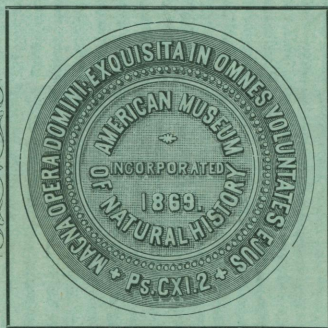


THE
American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)



ANNUAL REPORT OF THE TRUSTEES

AND

LIST OF MEMBERS

FOR THE YEAR 1886-7.

PRINTED FOR THE MUSEUM.

THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)

ANNUAL REPORT OF THE TRUSTEES

AND

LIST OF MEMBERS

FOR THE YEAR 1886-7.



NEW YORK:
PRINTED FOR THE MUSEUM.

1887.



BOARD OF TRUSTEES.

MORRIS K. JESUP.
BENJAMIN H. FIELD.
ADRIAN ISELIN.
J. PIERPONT MORGAN.
D. JACKSON STEWARD.
JOSEPH H. CHOATE.
PERCY R. PYNE.
JOHN B. TREVOR.
JAMES M. CONSTABLE.
WILLIAM E. DODGE.
JOSEPH W. DREXEL.
ANDREW H. GREEN.

ABRAM S. HEWITT.
CHARLES LANIER.
HUGH AUCHINCLOSS.
OLIVER HARRIMAN.
C. VANDERBILT.
D. O. MILLS.
CHAS. G. LANDON.
H. R. BISHOP.
ALBERT S. BICKMORE.
THEODORE ROOSEVELT.
OSWALD OTTENDORFER.
J. HAMPDEN ROBB.

OFFICERS AND COMMITTEES

FOR 1887.

President.

MORRIS K. JESUP.

Vice-Presidents.

D. JACKSON STEWARD. JAMES M. CONSTABLE.

Secretary.

ALBERT S. BICKMORE.

Treasurer.

J. PIERPONT MORGAN.

Executive Committee.

JAMES M. CONSTABLE, *Chairman*.

D. JACKSON STEWARD. JOSEPH W. DREXEL.

H. R. BISHOP. THEODORE ROOSEVELT.

The President and Secretary, *ex-officio*.

Auditing Committee.

CHARLES LANIER. ADRIAN ISELIN.

C. VANDERBILT.

Finance Committee.

J. PIERPONT MORGAN. D. O. MILLS.

JOHN B. TREVOR.

PROF. ALBERT S. BICKMORE,

*Curator of the Ethnological Department, and in charge of the
Department of Public Instruction.*

PROF. R. P. WHITFIELD,

Curator of the Geological, Mineralogical and Conchological Department.

L. P. GRATACAP,

Assistant Curator of the Geological Department.

J. A. ALLEN,

Curator of the Department of Ornithology and Mammalogy.

DR. J. B. HOLDER,

Curator of the Department of Invertebrate Zoölogy, Fishes and Reptiles.

JENNESS RICHARDSON,

Taxidermist.

A. WOODWARD,

Librarian.

WILLIAM WALLACE,

Clerk.

ANNUAL REPORT OF THE TRUSTEES

FOR THE YEAR 1886.

The Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY present this their Eighteenth Annual Report to the Patrons, Fellows and Members of the Museum.

The Treasurer's account shows the receipts of the year to have been \$43,960.26, of which the City contributed \$15,039.19. The receipts include \$2,426.16 given by Mrs. Robert L. Stuart towards the Bird Group Collection and the purchase of a rare and unique specimen of crystallized gold; also for completing the binding of the library given to the Museum by Mr. R. L. Stuart; and \$7,500 paid by the Trustees to make up the deficiency in maintaining the Museum.

The expenditures were \$31,584.08 for maintenance, and \$11,109.03 for *improvements and additions to the collections*.

The purchases include the Scott Collection of North American birds, a valuable collection of gold specimens and other rare minerals, 30 mounted specimens of American mammals, 132 specimens of American birds, 15 specimens of monkeys, also a number of geological specimens, all supplementing and making our collections more complete.

There have been added to our Library by purchase 900 volumes; this includes the library of Prof. R. P. Whitfield, which has filled a great vacancy. The additions to our collections by donation have been very gratifying. From the Hon. H. J. Jewett we have received his valuable library of travels, and from the Department of Public Parks, through Dr. Wm. A. Conklin, many important and valuable specimens have been received in the flesh and prepared at the Muséum by our taxidermist. A collection of 130 European bird skins has been received from Edward Hargitt, Esq., of London. Also, many other important donations, which will be found in detail in the list of accessions.

In former reports attention has been drawn to the need of more exhibition space. During the year a very large amount of material has been accumulated, including a collection of the building stones of America, which remain packed in cases ; also 3,000 birds and 150 mammal skins. These specimens, together with other large and interesting collections, cannot be exhibited for want of space.

The Educational Department has made most gratifying progress under Prof. A. S. Bickmore.

The following bill, granting aid to extend the Museum, has become a law, and is herewith given in full.

AN ACT

To provide for enlarging the building situated on Central Park in the City of New York and occupied by the American Museum of Natural History, for the purpose of furnishing proper facilities for giving increased exhibition and public instruction.

The People of the State of New York, represented in Senate and Assembly, do enact as follows :

SECTION 1. The Department of Public Parks in the City of New York, with the concurrence of the Board of Estimate and Apportionment, is hereby authorized to erect and equip an addition to the building situated on that part of Central Park, formerly known as Manhattan Square, and now in the possession and occupation of the American Museum of Natural History, in accordance with a contract made in pursuance of chapter 139 of the laws of eighteen hundred and seventy-six. Said addition shall include suitable space for the exhibition of the specimens of the Museum, now stored for want of room to display them to the public, and shall also include a lecture hall, which can be used for the purpose of giving to the teachers of the common schools, and the normal schools of the State, and to artisans, mechanics and other citizens, the instruction provided for them in chapter 428 of the laws of eighteen hundred and eighty-six. The Trustees of said Museum shall select an architect to prepare, under their direction, the plans, and to superintend, under the direction of the Commissioners of Parks, the construction of said addition. Said plans, when completed and approved by said Trustees, shall be submitted to the Commissioners of said department for their approval, and may include any alteration of the present building made necessary by the enlargement, and such improvements and repairs to it as the Commissioners of said department and the Trustees of said Museum may agree are proper and necessary. The Commissioners of said department shall provide for the compensation of the architect

out of the fund hereby provided for the erection of said addition. Said equipment shall include all the cases and fittings required for the preparation, exhibition and preservation of the specimens, books and property of the Museum, also furniture and fixed apparatus of the lecture hall, and the other rooms of this building.

§ 2. For the purpose of providing means for carrying into effect the provisions of this act, it shall be the duty of the Comptroller, upon being thereunto authorized by the Board of Estimate and Apportionment, to issue and sell, but not at less than their par value, bonds or stock of the Mayor, Aldermen and Commonalty of the City of New York in the manner now provided by law payable from taxation, but not exceeding in the aggregate the sum of four hundred thousand dollars, bearing interest at a rate not exceeding three per centum per annum, and redeemable within a period of time not exceeding thirty years from the date of their issue.

§ 3. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 4. This act shall take effect immediately.

The annual growth and proper development of your institution necessarily involves yearly increasing expenditures. The arrangement and rearrangement continually necessary in a large and growing scientific department not only occupies much time and care, but demands the employment of gentlemen of notable skill and acquirements.

Our only assured annual income at present is from the City appropriation of \$15,000 and the interest of the \$55,000 invested funds.

It would appear to be very desirable to place the Museum on such a permanent basis of maintenance that the annual contributions of the Trustees and members could be appropriated exclusively to the purchase of objects of science. Valuable collections, which the Museum needs, are continually being offered us for sale, but we are obliged to decline their purchase for want of funds.

The great museums of Europe are chiefly sustained by public fund, through the force of an enlightened public sentiment both as to their educational and economic value.

The value of what you have already accumulated in your halls rises to a large figure commercially, but it is a difficult task to estimate the money value of what belongs to science and scientific institutions. To their value must be added their ameliorating

power, their educational force, and the scope they afford the higher faculties of man to apprehend the wonderful phenomena of nature, and to master and utilize her great forces.

To the multitude shut up in stone walls, to whom are afforded an acquaintance with the beauty of natural objects, or to study them in their usual aspects and conditions, the advantage of your Museum is, that it affords opportunity ; and out of a great number who look only vaguely and experience only the healthful excitement of a natural curiosity, one here and there may be found endowed with special aptitudes and tastes. Perhaps some child of genius, whose susceptibilities and faculties, once aroused and quickened, will repay in the field of discovery and science, through the force of some new law in its manifold applications or relations, all your expenditure a hundred fold.

Commercial values and purely scientific values meet often on common ground ; but their essential life belongs to opposite poles. To some it appears necessary to vindicate the employment of large amounts of public money in such an institution as that which you control, from the charge of extravagance ; their ideas of value appear to be limited to that which is exchangeable in the current coin of the market ; but the highest results of character and life offer something which cannot be weighed in the balances of the merchant, be he ever so wise in his generation.

The work accomplished and the general improvements in the collections may be seen by the following extracts from the reports of the Curators :

DEPARTMENT OF PUBLIC INSTRUCTION AND ETHNOLOGY.

[Under the charge of Prof. A. S. BICKMORE.]

In order to render to this department a properly stable character, so that carefully considered plans could be made in advance for the more economic and effective preparation of the photographic illustrations, which are necessary in this new mode of visual instruction, the last Legislature passed a bill providing for the maintenance of the lectures to teachers in the Museum, and for continuing aid to the Normal Schools of the State for a period of two years, commencing October 1, 1886. In accordance with the provisions of this law, the Museum entered into a contract with Hon. A. S. Draper, the State Superintendent of

Public Instruction. The Museum and the public owe much of the gratifying development of this popular department to the appreciative coöperation of Judge Draper, from whose annual report, transmitted to the Legislature, January 5, 1887, is the following important extract :

"The system is new, but is undoubtedly destined to have an important part in future educational work. The course of lectures in progress is eminently attractive and practical, and teachers and those preparing to teach are thus given the advantages of foreign travel and opportunities for scientific research, which they could obtain in no other way.

"The need of a much larger lecture hall at the Museum is sorely felt. If it is provided, the information now being supplied to teachers can be extended to mechanics, artisans, and others, as is contemplated by the second section of the law under which we are proceeding. Much of it would be of peculiar interest to this class of our city population. Such lectures as the four upon 'Food Fishes,' and those upon 'Coal and Petroleum,' 'Iron and Lead,' 'Tea and Coffee,' 'Indian Corn and Tobacco,' 'Wheat and Rice,' 'Sugar and Salt,' and many others, would prove of great value to them. The City of New York ought to provide accommodations for carrying on this work, and very likely will."

The rapidly increasing interest in this illustrative method of promoting public education is strikingly manifested in the following statement of the number of teachers who have attended the first lecture in the Spring Course during the past four years :

January 12, 1884,	121
February 14, 1885,	140
February 20, 1886,	286
January 8, 1887,	504

The present lecture hall is designed to seat 275. On January 8, the opening of the present course, 390 teachers were crowded into the little hall—of whom nearly fifty were ladies who were obliged to stand after having taught all the week—and 114 went away, unable to get inside the doors.

During the past summer, at the suggestion of Judge Draper, Prof. Bickmore traveled at his own expense in Norway to the North Cape and throughout the sublimest scenery of Switzerland, to gather illustrations and data for his lectures on those countries.

GEOLOGICAL DEPARTMENT.

[Under the charge of Prof. R. P. WHITFIELD.]

PALÆONTOLOGICAL COLLECTIONS.—In this collection much has been done during the past year, in providing labels ; a large number of explanatory labels having been added. The vertebrate remains of the *Holmes Collection*, from the Phosphate beds of

South Carolina, have been determined and permanently labeled, as far as they have been described ; and the invertebrate Miocene collection has also been permanently labeled with species labels. Early in the year we received a large collection of European fossils from Prof. Karl Zittel, of the University of Munich, Bavaria, in exchange for one of the collections of the Hall duplicates. These have been placed on exhibition, and all the more prominent forms provided with permanent labels. In order to provide room for this collection in the cases, many changes were necessary, owing to their crowded condition, and caused the expenditure of much time. Several other additions were made to this collection during the year, the most prominent of which has been placed in case B, sections 9, 10 and 11, in the Chazy, Birdseye and Black River formations. This was a donation, on condition of early publication, from Prof. H. M. Seely, President E. Brainerd and other members of the faculty of Middlebury College, Middlebury, Vermont, and forms the basis of Bulletin No. 8, recently published. The collection is a very valuable one, as it comprises mostly new forms now become types of their species.

MINERALOGICAL COLLECTION.—The catalogue of this collection has been completed as far as the collection affords material, and might now be printed for use from the manuscript book if desirable, after some slight revision. A number corresponding to the species number in *Dana's System of Mineralogy* has been placed on each specimen, so that by reference to that number in the catalogue or in the *Manual* all particulars can be learned. Many valuable additions have been made to this collection during the year, among which is an extremely interesting group of native golds and silvers, obtained partly by purchase by the Museum authorities, and partly by donation from a most liberal patroness. Many other additions, both by exchange and donation, are appended in the lists under their several heads.

A great necessity of this collection is *want of space*, and this necessity becomes the more pressing year by year, as additions are made. The collection now contains about 400 species, or about half the known number ; but as additions are made it becomes necessary to remove the less conspicuous forms to drawers in the attic rooms, where they are entirely inaccessible to students or the public, unless under the direct personal attendance of one of the Curators. In the present building there is no way in which this can be remedied except by placing drawers beneath the present cases, in which the overflow of the table cases can be placed, and where they will be somewhat more easily examined than in the attic.

ECONOMIC COLLECTION—Building Stones. The Museum has lately received a duplicate series of the building and ornamental stones of the United States, collected and studied under the

direction of the Tenth Census Commission. This collection contains 1,053 nicely dressed, four-inch cubes of rock, accompanied each by a microscopical section for study. It has also over 200 larger blocks of American and foreign building stones and marbles, many of them twelve-inch cubes. For the proper exhibition of the Census Commission series it will require certainly not less than 50 linear feet of shelf room for each hundred blocks, or, with maps, charts and other explanatory matter, not less than 600 linear feet of shelf. While for the larger blocks there would be required not less than 150 linear feet, equal to 750 feet in all. At the present time there is not available a single foot of case room in this department in which this collection can be exhibited.

The Census Commission series is packed in twenty-four large rough boxes, stored on the lower hall stairway, and the other blocks are strewn along the stairways through two and a half stories of the building, exposed to dirt and injury, and are rapidly deteriorating in quality and beauty. If this entire collection were properly cared for and protected, it would make a very interesting, instructive and attractive collection, particularly for the artisan class of our city.

CONCHOLOGICAL COLLECTION.—*The Wolfe Collection of Shells.* Since the last annual report this collection has been very greatly improved in condition, and at the present time more than three-fourths of that part of it which is on exhibition is neatly arranged systematically, and provided with proper specific labels, so that now it begins to present a very attractive appearance. This collection is now more constantly used for the identification of species by visitors to the Museum than any other collection in the building, from the fact that the shells are not only attractive, but more easily obtainable in New York than any other class of natural objects. Consequently it is desirable that this collection should be as full and complete as possible. Still, for want of space, there will be a large amount of the collection necessarily stored in the drawers in the attic, and inaccessible to the public; unless, as in the case of the minerals, drawers can be placed beneath the present cases, accessible to students and amateurs wishing to identify species, under the supervision of a Curator.

BULLETIN NO. 8, containing two Palæontological articles, the principal one based upon some new Birdseye limestone fossils from Fort Cassin, Vt., was prepared in this department during the autumn, and published just at the close of the year. The collection upon which it is based was a donation, for that purpose, from parties in Vermont, and forms a very valuable addition to the Palæontological Collection at a point where it was particularly deficient. This Bulletin ought properly to constitute the end of Vol. I of the Museum publications, and, with the others preceding it, be indexed, so that it might be bound into a single volume—the next one issued beginning Vol. II.

DEPARTMENT OF MAMMALS AND BIRDS.

[Under the charge of Mr. J. A. ALLEN.]

MAMMALS.—The collection of monkeys, numbering 120 species, represented by 166 specimens, has been carefully identified, catalogued, and labeled, thus completing the work of cataloguing and labeling the collection of mammals. There have been added to the mounted collection 15 species of monkeys and 30 species of North American mammals. Other additions, not yet mounted, include an Indian rhinoceros, a yak, several kangaroos, a capybara, two monkeys, and various smaller species, many of them received in the flesh from the Central Park Menagerie. A large collection of Arizona mammals, most of them presented by Dr. E. A. Mearns, has been added to the Study Collection.

About thirty species are still wanting to complete the mounted collection of North American mammals. These, it is hoped, may be added at the earliest opportunity.

The great need of this department is a study collection of North American mammals, in which each species shall be represented by a good series of both skins and skulls, collected at many different localities, in order to show their phases of geographical variation, as well as the differences depending upon sex and age. Many of the smaller species, as the mice, shrews, moles and bats, should also be represented by specimens preserved in alcohol. Such a collection is absolutely necessary for purposes of study and scientific investigation, and it is of the utmost importance that measures be taken at once to secure the requisite material. At present we have not more than a dozen or twenty skins, and about the same number of skulls—hardly enough to be considered as even a nucleus for such a collection.

BIRDS.—About one-half of the mounted collection of North American birds has been catalogued and relabeled, in accordance with the new system of nomenclature recently adopted by the American Ornithologists' Union. About one-half of the mounted European birds have also been provided with exhibition labels. These together number about 2,200 specimens, or about two-fifths of the exhibition collection.

The Study Collection has been rearranged, and about 600 specimens catalogued and labeled. This collection now numbers about 4,000 skins of North American birds, and about 2,000 skins of foreign birds. The Study Collection of North American birds requires the addition of 10,000 specimens to bring it up to the proper standard of completeness. The mounted collection of North American birds still requires the addition of about ninety species to render it complete.

The additions during the past year number about 200 mounted birds and 3,250 skins, nearly all North American. The additions

to the nests and eggs number about 600 specimens, and include many of great rarity and value.

Four cases, combined with cabinets for storage, have been placed in the Hall of Birds, to which the collection of nests and eggs has been transferred, and in which a selected series of nests and eggs has been placed on exhibition. The removal of the collection to its new quarters, and the selection of specimens for exhibition, has been kindly made by Mr. W. B. Bailey, who has also, during the year, contributed many valuable specimens to this department.

Early in the year a department of Taxidermy was established, with Mr. Jenness Richardson, formerly of the U. S. National Museum, as taxidermist. Many specimens received since in the flesh have either been mounted or properly prepared for mounting; nearly the whole collection of bats has been remounted, and repairs have been made on many specimens already in the collection.

In May, Mr. Richardson began to collect materials for a series of groups illustrative of the nesting habits of the birds found in the vicinity of New York City. Each group will consist of a pair of birds and their nest and eggs or young, with their natural surroundings of characteristic vegetation and other accessories. About twenty of these groups are well under way, and will be ready for exhibition early in May. A skilled modeler of plants, Mrs. Mogridge, formerly at the South Kensington Museum, of London, has been employed to prepare the vegetation required. The results thus far attained are highly satisfactory, leaving little to be desired in point of effectiveness and truthfulness to nature.

Under the new law for the protection of song and native birds recently enacted by the State of New York, the Museum has been called upon to issue permits in the interest of collectors of birds for scientific purposes; a few only have been granted, and these only to well-known ornithologists.

In September a Bulletin (Bulletin No. 7) was issued for this department, consisting of a colored plate and 94 pages of text. It included five papers, one on mammals, two on birds, and two on batrachians.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY, FISHES AND REPTILES.

[Under the charge of Dr. J. B. HOLDER.]

The Secretary of the Smithsonian Institution having intimated to the Executive Committee of the Museum that he was at liberty to present to them a series of casts of reptiles and fishes, I was directed to visit Washington for the purpose of negotiating for their preparation and transfer. This series embraces carefully

prepared casts of the food fishes of North America. The casts are taken from fresh examples, and have been colored by an expert, under the eye of a scientist. In most respects this method of exhibiting fishes and reptiles is superior to any.

The list of fishes thus offered embraces the names of 88 species, and that of reptiles 14 species; the cost being, when ready for transportation, \$727. This collection has been received, with the exception of four fishes, which are very large, and require more deliberate attention. All prove most excellent and important acquisitions to our cabinets.

During the year the collections of specimens in alcohol have received special attention. The fishes and reptiles have been carefully examined with reference to classification and nomenclature in accordance with present accepted forms. This work has been completed, and permanent record made of the same. Printed labels are being prepared for these collections, and the specimens, both wet and mounted, will be presented for public exhibition.

The catalogue of fishes, as now completed, embraces the names of 221 species of mounted specimens, and 194 in alcohol. The 88 species of casts of fishes, being representatives of North American food fishes, added, makes a total of 403 species.

Besides this summary the department has received large donations during the year, which will be examined and classified in due time.

Additional to this we have lately arranged to receive from the U. S. Fish Commission, from time to time, examples of all the fishes of this continent, both marine and fresh water. As this implies large numbers, the specimens will be sent at intervals, in certain groups, to enable a prompt and proper arrangement for exhibition.

At present, in the Department of Reptiles and Batrachians, there are permanently recorded: reptiles, 349 species; of batrachians, 72 species. Besides, numerous specimens of both groups have been received during the year as gift, and by purchase.

In the Department of Invertebrate Zoölogy much valuable material has been added.

Through the Smithsonian Institution, two cases containing invertebrates have been received. These consist of a share of the valuable results of the deep-sea dredgings by the U. S. S. "Albatross," under the management of the Fish Commission. The collections largely embrace objects new to science, ranging from mollusca, crustaceans, through the several lowest branches of the animal kingdom—all of intense interest and value to students of invertebrate zoölogy, as well as highly curious to the passing visitor.

Among the more valuable gifts received during the year are seven glass-covered preparations of crustaceans, including promi-

nent typical forms, for purposes of study. These are separated in their several numerous parts to show the articulated structure. The Museum is indebted for this gift to Messrs. F. B. Thurber, of New York, and Thomas Higgins, of Liverpool.

In view of lack of space in the halls for the suitable exhibition of specimens of the several departments, the collections in alcohol have been arranged and exhibited in the Curator's rooms. During the past year many students and others have had the privilege of visiting the rooms, and it will continue to be a pleasure to the Curator to extend all possible assistance to any desiring to gain acquaintance with the collections.

ENTOMOLOGY.

This department has, since July 1st, 1886, for its preservation and extension, been under the care of Mr. E. B. Southwick.

The work of classification, determining, and placing on exhibition, has been for the past six months continued to the best advantage of the collection now in possession of the Museum.

The collection on the first of July, 1886, numbered about twenty-two thousand (22,000) specimens, to which were added by Mr. Southwick five thousand six hundred (5,600) specimens, collected in and about New York City and State, and New Jersey.

Seven hundred and fifty (750) specimens were presented to the collection, making the addition for the half year six thousand three hundred and fifty (6,350) specimens, making the total number now in possession of the Museum twenty-eight thousand three hundred and fifty (28,350) specimens.

As a large number are duplicates, these will be utilized for exchanges, and to supply with fresh specimens the exhibition collection.

The collection of insects now in possession of the Museum embraces many valuable specimens, as types from Osten Sacken, and are invaluable in the determination of many difficult species.

The arrangement of the orders in the Museum has been according to A. S. Packard, Jr., and in the Hymenoptera, a portion of the Lepidoptera and Diptera, and nearly all the Coleoptera, the insects are classified, named, and on exhibition.

The present need of the department is to complete the collection of North American insects, and collect and exhibit, as far as is possible, the insects of the Central Park, their manner of living and destructive working, their variations in size and color, all of which will add to the intelligent study, as to the destruction of enemies and preservation of friends.

As a large number of insects feed upon trees, shrubs and plants, a collection of these food-plants, together with the life history of each insect would not only be of great value to science, but would

give the general public an idea of the ravages of "noxious insects," and as to the best means for their destruction, and the preservation of valuable plants.

It is proposed that during the coming year the work of collecting, mounting and exhibiting, shall be carried out as completely as is possible, to show the life history of our local insects, and no opportunity will be lost that will further such an end.

In addition to the exhibition collection, one for study and comparison will be arranged in cabinets, from which duplicates can be obtained to replace faded and broken specimens in the exhibition class.

As far as is possible, insects of this locality will be collected and used for exchanges.

There seems to be no reason why this collection cannot be made one of the finest in the world, and no more important center for its study and exhibition can be found than in New York City.

Many of the finest collections of North American insects have been purchased by the European museums, and while they at present lead us in this department, there seems to be no reason why this Museum should not soon step in the first ranks and lead the world.

When it is known and established that the collection is being cared for, and an interest shown in its extension, the public will have more confidence in its management, and many collections now in obscurity will be presented to it as the best means for their preservation and exhibition, and as a lasting monument to many an earnest man's industry.

LIBRARY.

[Under the charge of Mr. A. WOODWARD.]

The additions to the Library this year, through various means, have exceeded any previous year. The books and pamphlets received have amounted to : volumes, 1,559 ; Nos. and parts, 516 ; pamphlets, 1,149.

By Application (Librarian)	191	Vols.	197	Nos. and Parts.	57	Pamphlets.
Exchange (Bulletin)	36	"	182	"	90	"
" (Duplicates)	10	"	2	"	15	"
Donations	439	"	135	"	75	"
Purchase	883	"	...	"	912	"
Total	1,559		516	"	1,149	"

These additions include books, transactions, memoirs, periodicals, pamphlets and maps ; also the Palæontological and Geological Library of Prof. R. P. Whitfield, by purchase.

Mr. Hugh J. Jewett has donated 350 beautifully bound volumes on voyages and travels, many of which are rare and difficult to obtain now.

The Conchological Library, the gift of Miss Catharine Lorillard Wolfe, has received, up to date, 150 additional volumes.

Number of volumes in Library,	Bound.	Unbound.	Nos. and Parts.	Pamphlets.
January 1st, 1886.....	3,694	1,229	1,981	3,052
Added during the year.....	<u>1,398</u>	<u>161</u>	<u>516</u>	<u>1,149</u>
Total to date.....	5,092	1,390	2,497	4,201

The books have been much used this year, especially by those not employed in the Museum. Since the middle of May to date, the number of visitors, who came to consult books, 395.

The Curators have had in use, in their rooms, about 1,000 volumes.

One thousand volumes have been bound, through means generously provided by Mrs. Robert L. Stuart, Miss Catharine Lorillard Wolfe, and the Trustees.

There are still, however, a large number that require to be bound before they can be made available for use.

Bulletin No. 7, issued July, 1886; of these and the other Bulletins, during the year 1886, from January 1st to December 31st, 602 copies were distributed; 475 were distributed in the United States and Canada; the remainder 127 were sent as exchanges to scientific and literary institutions and individuals in Europe, India and Australia.

The Library of the New York Academy of Sciences, was removed during the month of September, the room being far preferable for the accommodation of books, our library was moved to the room it now occupies, displaying it to better advantage.

THE AMERICAN MUSEUM OF NATURAL HISTORY, *in account*

1886.	RECEIPTS.	
Balance from 1885 account,	- - -	\$2,466 08
From Mrs. Robert L. Stuart,	- - -	2,426 16
“ Oswald Ottendorfer,	- - -	1,000 00
“ J. Hampden Robb,	- - -	1,000 00
“ Morris K. Jesup, -	- - -	600 00
“ James M. Constable, -	- - -	600 00
“ Adrian Iselin, -	- - -	600 00
“ Percy R. Pyne, -	- - -	600 00
“ D. O. Mills, -	- - -	600 00
“ H. R. Bishop, -	- - -	600 00
“ John B. Trevor, -	- - -	600 00
“ C. Vanderbilt, -	- - -	600 00
“ J. Pierpont Morgan,	- - -	600 00
“ Joseph H. Choate, -	- - -	300 00
“ Wm. E. Dodge, -	- - -	300 00
“ Oliver Harriman, -	- - -	300 00
“ Abram S. Hewitt, -	- - -	300 00
“ Charles G. Landon, -	- - -	300 00
“ Charles Lanier, -	- - -	300 00
“ Joseph W. Drexel, -	- - -	300 00
“ D. B. Ivison, -	- - -	500 00
“ Miss Oliva P. Stokes, -	- - -	100 00
“ Chandler Robbins, -	- - -	100 00
“ The Sale of Guides, -	- - -	175 00
“ Collecting Permits, -	- - -	14 00
“ Interest on Invested Funds, -	- - -	2,300 00
“ State Superintendent of Public Instruction, -	- - -	7,839 83
“ Department of Public Parks } and Annual Members, }	- - -	18,539 19
		<u>\$43,960 26</u>

Examined } JOHN B. TREVOR, } *Auditing*
and approved, { CHARLES LANIER, } *Committee.*

1886.

EXPENDITURES.

Paid for Salaries,	-	-	-	-	-	\$19,789	50
“ Labor,	-	-	-	-	-	6,132	05
“ Fixtures and Repairs on Building,	-	-	-	-	-	975	45
“ Coal,	-	-	-	-	-	584	25
“ Tools and Supplies,	-	-	-	-	-	662	34
“ Publishing Bulletin and Annual Report,	-	-	-	-	-	668	86
“ Printing and Stationery,	-	-	-	-	-	256	72
“ Reception,	-	-	-	-	-	467	54
“ Labels,	-	-	-	-	-	995	95
“ Postage and Car Fare,	-	-	-	-	-	260	30
“ Expressage,	-	-	-	-	-	314	65
“ Advertising,	-	-	-	-	-	35	75
“ Poison and Sundries,	-	-	-	-	-	34	45
“ Traveling and Custom House Expenses,	-	-	-	-	-	50	51
“ Cash on hand in General Office,	-	-	-	-	-	100	00
“ Interest on debit balances, 1886,	-	-	-	-	-	255	76
							<u>\$31,584 08</u>
Bird Group Collection,	-	-	-	-	-	\$1,304	21
Birds and Mammals purchased,	-	-	-	-	-	2,337	74
Geological and Mineralogical Specimens purchased,	-	-	-	-	-	1,681	50
Reptiles and Fishes purchased,	-	-	-	-	-	954	98
Books and Periodicals purchased,	-	-	-	-	-	4,800	90
Ethnological Department, Improvements to the Collection,						29	70
							<u>\$11,109 03</u>
Balance to 1887 account,	-	-	-	-	-	1,267	15
							<u><u>\$43,960 26</u></u>

[E. & O. E.] NEW YORK, February 14, 1887.

J. PIERPONT MORGAN, *Treasurer.*

BY-LAWS.

I.

Patrons giving \$1000 are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket, and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum every day except Sunday, and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays) and are issued to Subscribers for distribution among friends and visitors.]

II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board, shall cease to be a Trustee, unless excused by the Board.

III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the nominating committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

IV.

No indebtedness shall (except for current expenses) be incurred by the Trustees of the Museum, nor by any of its committees,

officers, or employees, unless there are at the time sufficient moneys in the Treasury to pay the same.

V.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum, as the Board shall direct.

ARTICLE XI OF THE CONSTITUTION.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by last will and testament.

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

LIST OF ACCESSIONS, 1886.

DONATIONS.

LIBRARY.

By HUGH J. JEWETT, Esq., New York City.

Phillips. Travels in Australia. 1789.

Hunter, J. Travels in Australia. 1792.

Oxley, J. Journals of Two Expeditions into the Interior of New South Wales. 1820.

Collins. New South Wales. 1804.

Grant's Voyage of Discovery. 1803.

Koster, H. Travels in Brazil. 1816.

Bougainville. Falkland Islands. 1776.

Sack, A. Von. Narrative of a Voyage to Surinam. 1810.

Bolingbroke, H. A Voyage to the Demerary. 1807.

Buch, L. Von. Travels through Norway and Lapland during the years 1806-08. 1813.

Thomson, T. Travels in Sweden. 1813.

Schmidtmeier, P. Travels into Chile. 1824.

Condamine. Voyage to the Equator. 1751.

Chappe, A. A Journey into Siberia. 1770.

James, T. Straits of Gibraltar, Spain and Barbary. 2 vols., in one. 1771.

Murphy, J. A General View of the State of Portugal. 1798.

Murphy, J. Travels in Portugal. 1795.

Clarke, E. Letters concerning Spanish Nation. 1763.

Dillon, J. T. Travels through Spain. 1782.

Twiss, R. Travels through Spain and Portugal in 1772 and 1773. London, 1775.

Keysler, J. G. Travels through Germany, Bohemia, Hungary, Switzerland, Italy, and Lorraine. 4 vols. 1756, 1757.

Percival, R. An Account of the Island of Ceylon. 1805.

Macmichael, W. Journey from Moscow to Constantinople. 1819.

Heude, W. Voyage up the Persian Gulf. 1819.

Neale, A. Travels : Germany, Poland, Moldavia, and Turkey. 1818.

Walpole, R. Memoirs relating to European and Asiatic Turkey. 1817.

Walpole, R. Travels in various Countries of the East. 1820.

Morier, J. Persia, Armenia, and Asia Minor to Constantinople. 1812, 1818.

Fraser, J. B. The Persian Provinces. 1826.

Fraser, J. B. Journey into Khorasan. 1825.

Poter, R. K. Travels in Georgia, Persia, Armenia, Ancient Babylonia. 2 vols. 1821-22.

- Johnson, R. The Russian Empire and the Country of Poland. 1815.
- Kinneir, J. M. Geographical Memoir of the Persian Empire, with map. 1813.
- Bell, J. Travels in Russia and Asia. 1762. 2 vols.
- Manstein, B. de. Memoirs of Russia. 1773.
- Hanway, J. Travels in Russia, Persia, and Germany. 2 vols. 1754.
- Dodwell, E. Tour through Greece. 2 vols., in one. 1819.
- Craven, Elizabeth, Lady. The Crimea to Constantinople. 1789.
- Billings and Sauer. Travels in the Northern Parts of Russia. 1802.
- Lyall, R. The Russians, and a detailed history of Moscow. 1823.
- Coxe, W. Travels into Poland, Russia, Sweden, and Denmark. 2 vols. 1785.
- Thornton, T. Present state of Turkey, Moldavia, and Wallachia. 1807.
- Alexander, J. E. Travels from India to England to the Burman Empire. 1827.
- Adams. Tombuctoo. 1816.
- Herber, R. Narrative of a Journey through the Upper Provinces of India. 2 vols. 1828.
- Pottinger, H. Travels in Beloochistan and Sindh. 1816.
- Hodges, W. Travels in India. 1793.
- Turner, S. Through Bootan, and part of Tibet. 1806.
- Kirkpatrick. Kingdom of Nepal. 1811.
- Broughton, T. D. Letters written in a Mahratta Camp. 1813.
- Forster, G. Journey from Bengal to England. 2 vols. 1798.
- Fraser, J. B. The Himala Mountains. 1820.
- Marsden, W. Travels of Marco Polo. 1818.
- Buckingham, J. S. Travels among the Arab Tribes, East of Syria and Palestine. 1825.
- Buchanan, F. H. Account of the Kingdom of Nepal. 1819.
- Marsden, W. The History of Sumatra. 1811.
- Buckingham, J. S. Travels in Palestine. 1821.
- Buckingham, J. S. Travels in Mesopotamia. 1827.
- Buckingham, J. S. Mysore, Canara, and Malabar. 3 vols. 1807.
- Lyon, G. F. Narrative of Travels in Northern Africa. 1821.
- Hoskins, G. A. Travels in Ethiopia. 1835.
- Horneman's Travels from Cairo to Mourzouk. 1802.
- Griffiths, J. Travels in Europe, Asia Minor. 1805.
- Denham and Clapperton. Narrative and Travels in Northern and Central Africa. 1826.
- Denham and Clapperton. Second Expedition into the Interior of Africa. 1829.
- Jackson, J. G. Account of Morocco and of Timbuctoo. 1814.
- Paddock, J. Narrative of the Shipwreck of the Oswego. 1818.
- Wilson, R. T. History of the British Expedition to Egypt. 1802.
- Light, H. Travels in Egypt, Nubia, Holy Land, Mount Lebanon, and Cyprus. 1818.
- Thompson, G. Travels and Adventures in Southern Africa. 1827.
- Belzoni, G. Travels in Africa, Egypt, and Nubia. 1820.
- Sonnini, C. S. Travels in Upper and Lower Egypt. 1800.
- Walsh, T. Campaign in Egypt. 1803.
- Lichenstein, H. Travels in Southern Africa. 2 vols. 1812-1815.
- Wittman, W. Travels in Turkey, Asia Minor, Syria, into Egypt. 1803.
- Keatnige, M. Travels: France and Spain to Morocco. 1817.
- Waddington and Hanbury.—Ethiopia. 1822.
- Salt, H. Voyage to Abyssinia. 1814.

- Carr, J. Travels round the Baltic, through Denmark, Sweden, Russia, Prussia, etc. 1805.
- Mackenzie, G. S. Travels in the Island of Iceland. 1811.
- Acerbi, J. Travels through Sweden, Finland, and Lapland to the North Cape. 2 vols. 1802.
- Dupuis, J. Journal of a Residence in Ashantee. 1824.
- Percival, R. An account of the Cape of Good Hope. 1804.
- Mungo Park. Travels in the Interior Districts of Africa. 1816.
- Mungo Park. Journal of a Mission to the Interior of Africa. 1815.
- Corry, Jos. Observations upon the Windward Coast of Africa. 1807.
- Riley, J. Tombuctoo and of the hitherto undiscovered Great City of Wassanah. 1817.
- Barrow, J. Travels into the Interior of South Africa, the Cape of Good Hope. 2 vols. 1806.
- Beechey, H. W. Northern Coast of Africa. 1828.
- Pananti, S. Narrative of a Residence in Algiers. 1818.
- Tuckey, J. K. Narrative of an Expedition to the River Zaire. 1818.
- Mollien, G. Travels in the Interior of Africa. 1820.
- Bruce, J. Travels to Discover the Source of the Nile. 5 vols. 1790.
- Browne, W. G. Travels in Africa, Egypt, and Syria. 1806.
- Bowdich, T. E. Mission from Cape Coast Castle to Ashantee. 1819.
- Byron's Voyage of H. M. S. "Blonde" to the Sandwich Islands. 1826.
- Wilson, J. Missionary Voyage to the Southern Pacific Ocean. 1799.
- Graham, M. Journal of a Voyage to Brazil. 1824.
- Broughton, W. R. Voyage of Discovery to the North Pacific Ocean. 1804.
- Wilson, H. An account of the Pelew Islands. 1787.
- Colnett, J. Voyage for South Atlantic and Pacific Whale Fisheries. 1798.
- Pennant, T. Journey from London to the Isle of Wight. 2 vols., in one. 1801.
- Forrest, T. Voyage to New Guinea and the Moluccas. 1779.
- Gilliss, J. M. U. S. Expedition to the Southern Hemisphere. 2 vols. 1855.
- Graham, M. Journal of a Residence in Chile. 1824.
- Stedman, J. G. Travels in South America, Surinam. 2 vols. 1796.
- Carr, J. Tour through Holland. 1807.
- Carr, J. Tour through Ireland. 1806.
- White, J. Journal of a Voyage to New South Wales. 1790.
- Willyams, C. Voyage up the Mediterranean. 1802.
- Sandwich's Voyage round the Mediterranean. 1807.
- Ross, J. First Arctic Voyage. 1819.
- Ross, J. Second Arctic Voyage. 1835.
- Ross, J. Appendix to Second Arctic Voyage. 1835.
- Phipps, J. Voyage to the North Pole. 1774.
- Irwin, E. Voyage up the Red Sea. 1780.
- Dixon, G. A Voyage round the World. 1789.
- Parry, W. E. North-West Passage from the Atlantic to the Pacific. 1821, 1824. 2 vols.
- Langsdorff, G. H. V. Voyages and Travels in various parts of the World. 2 vols. 1813.
- Forster, G. Voyage round the World. 2 vols. 1827.
- Forster, J. R. Observations made during a Voyage round the World. 1778.
- Freycinet, (Capt.) Narrative of a Voyage round the World. 1823.
- Anson, G. Voyage round the World. 1748.

- Forster, J. R. History of Northern Voyages. 1786.
 Cook's First Voyage. 2 vols. 1773.
 Cook's Second Voyage. 2 vols. 1778.
 Cook's Third Voyage. 3 vols. 1784.
 Vancouver, G. Voyage of Discovery to the North Pacific Ocean. 3 vols. 1798.
 Lisiansky, U. Voyage round the World. 1814.
 Marchand, E. Voyage round the World. 2 vols. 1801.
 Bougainville, L. Voyage round the World. 1772.
 Moore, J. H. Collection of Voyages and Travels round the World. 2 vols. 1778.
 Krusenstern, A. J. V. Voyage round the World. 2 vols., in one. 1813.
 Parkinson, S. Voyage to the South Seas. 1773.
 Portlock, N. Voyage round the World, North-West Coast of America. 1789.
 Burney, J. Chronological History of Discoveries in the Pacific Ocean. 2 vols. 1803, 1806.
 Stolberg, F. L. Travels through Germany, Switzerland, Italy, and Sicily. 2 vols. 1796, 1797.
 Townson, R. Travels in Hungary. 1797.
 Labillardière. Relation du Voyage a la recherche de la Pérouse. 2 vols., and Folio Atlas. 1791, 1792.
 Frazier. Voyage to the South Sea and along the Coasts of Chili and Peru. 1717.
 Poyer, J. History of Barbados. 1808.
 Willyams, C. Campaign in the West Indies. 1796.
 Meares, J. Voyages, China and North-West Coast of America. 1790.
 Craven's Travels in Italy. Naples, 1821.
 Smyth, W. H. Sicily and its Islands. 1824.
 Lady Morgan. Italy. 2 vols. 1821.
 Vaughan, T. W. Present State of Italy. 1811.
 Thompson, W. H. Sicily and its Inhabitants. 1813.
 Jacob, W. Travels in the South of Spain. 1811.
 Wright, E. France and Italy. 2 vols., in one. 1764.
 Wood, J. France, Italy, and Greece. 2 vols. 1828.
 Neale, A. Portugal and Spain. 1809.
 Fleurieu, Gilbert, Mortimer. Discoveries of the French. 1791.
 Lady Morgan. France. 1817.
 Benyowsky, M. A. Voyages and Travels. 2 vols. 1790.
 Thornton, Col. A Sporting Tour through France. 2 vols., in one. 1806.
 Pinkerton, J. A general collection of Voyages and Travels in all parts of the World. 17 vols. 1808-1814.
 Buckingham, J. S. Travels in Assyria, Media, and Persia. 1829.
 Symes, M. Embassy to the Kingdom of Ava. 1800.
 Ellis, H. Journal of the Late Embassy to China. 1817.
 Staunton, G.—Macartney's Embassy to China. 2 vols., and Atlas. 1797.
 Crawford, J. Embassy to Ava. 1829.
 Crawford, J. Embassy to Siam and Cochinchina. 1828.
 Barrow, J. Voyage to Cochinchina. 1806.
 Barrow, J. Travels in China. 1806.
 Hall, B. West Coast of Corea and the Great Loo-Choo Island. 1818.
 Explorations and Surveys from the Mississippi River to the Pacific Ocean. 13 vols.

- Bridgewater Treatises. 11 vols.
 United States Coast Survey. 1851-1856.
 Niles, H. Weekly Register. First Series. 13 vols. 1811-1817.
 Second Series. 10 vols. 1818-1823. Third Series. 12 vols.
 1824-1829. Fourth Series. 15 vols. 1829-1836. Fifth Series.
 14 vols. 1837-1844.
 Alabama Claims. Department of State. 1872.
 Bureau of Statistics. Report on Immigration. 1871.
 Finance Report. 1871.
 Ku Klux Conspiracy. 1872.
 Annual Report. Commissioner of Revenue. 1869.
 Annual Report. Chief Bureau of Statistics. 1871.
 Message and Documents. Dep't State. 1871-72.
 " " " War Dep't. 1871-72. Parts I, II.
 " " " Interior Dep't. 1871-72. Parts I, II.
 " " " Navy and P. O. Dep'ts. 1871-72.
- MISS CATHARINE LORILLARD WOLFE, New York City.
 Blanford, W. T. Monograph of Himalayan, Assamese and Cingalese Clausiliæ. 1882.
 Coutance, A. De l'énergie et de la structure musculaire chez les Mollusques Acéphales. 1878.
 Rimmer, R. The Land and Fresh-water Shells of the British Isles. 1880.
 Lischke, C. E. Japanische Meers-Conchylien. 3 vols. 1869-74.
 Noulet, J. B. Mollusques des environs d'Ax, Ariège. 1869.
 Weinkauff, H. C. Catalog der in europäischen Faunengebiet lebenden Meers-Conchylien Kreuznach. 1873.
 Jickeli, C. F. Fauna der Land und Süsswasser Mollusken Nord-Ost-Afrika's. 1874.
 Martens, E. v. Ueber norder Asiatische Conchylien nach den Sammlungen des Prof. Hansk. 1874.
 Küster, H. C. Die Binnenconchylien Dalmatiens III. Clausilien. 1875.
 Linénard, E. Catalogue de la Faune malacologique de l'île Maurice. 1877.
 Locard, A. Malacologie Lyonnaise, ou description des Mollusques terrestres et aquatiques de environs de Lyon. 1877.
 Dubrueil, E. Catalogue des Mollusques terrestres et fluviatiles de l'Hérault. 2d edition. 1869.
 Brot, A. Matériaux pour Servir à l'étude de la famille des Mélianiens. III, etc. 1872.
 Mac-Intosh, W. C. The Marine Invertebrates and Fishes of St. Andrews. 1875.
 Metzger, A., and H. A. Meyer. Mollusca in Bericht über die Untersuchungs-faith der Pommerania in der Nordsee. 1875.
 Pfeiffer, L. Monographia Pneumonopomorum. 4 vols. •
 Clessin, L. Deutsche Excursions-Mollusken Fauna. 1876.
 Monterosato, T. A. Di. Notizie intorno alle Conchiglie Mediterranee. 1872.
 Ganin, M. Beitrag zur Lehre von dem embryonalen Blättern bei den Mollusken. 1873.
 Martens, E. v. Die Preussische Expedition nach Ost-Asien. Land-schnecken II. Band.
 Hutton, F. W. Catalogue of the Tertiary Mollusca. 1873.
 Klécak, B. Catalogus ad rationem synonymion ordinatus marinorum Molluscorum Dalmatiæ. 1873.
 Lehmann, R. Die lebenden Schnecken und Muscheln der Umgegend Stettins und Pommern. 1873.

- Martens, E. v. Critical list of the Mollusca of New Zealand. 1873.
 Kobelt, W. Catalogue lebender Mollusken. 2 ser. 1877-79.
 Brevière, L. Catalogue des Mollusques testacés terrestres et fluviaux. 1880.
 Carriere, J. Studien über die Regenerationserscheinungen bei den Wirbellosen. 1880.
 Martens, E. v. Conchologische Mitt. 2 vols. 1880-83.
 Bourguignat, J. R. Letters malacologiques. 1882.
 Dunker, W. Index Molluscorum maris Japonici. 1882.
 Folin, L. de. Monographie de la famille des Cæcidae. 1875.
 Tryon's continuation of Haldeman's Fresh-water Univalves of the United States.
 Rossmaseler. Kobelt's continuation. 3 vols.
 Reeve's Conchologia Iconica. 8 vols.
 Tryon's Manual of Conchology. 7 vols.
 Noviatates Conchologicae. Sea Shells and Land Shells. 3 vols.
 Marteni and Chemnitz. New Edition. 15 vols.
 Proceedings of the Zoological Society. 1862-1884.
 Semper, C. Reisen in Archipel der Philippinen.
 Zoological Record. 20 vols. 1864-1883.
- HON. A. S. HEWITT, New York City.
 Official Gazette of the United States Patent Office. Vols. XXXIII, 13; XXXIV, XXXV, XXXVI, XXXVII, 1-12. 1886.
 Alphabetical List of Patentees and Inventions. 1885, 1886.
- HON. R. P. FLOWER, New York City.
 War of the Rebellion. Series I.—Vols. XII, Part II; XV, XVI, XVII.
 Tenth Census of the United States. Vol. XIII. Precious Metals.
 " " " Vol. XIV. Mining Laws.—King.
 " " " Vol. XVI. Water Power. Part I.
 " " " Vol. XX. Statistics of Wages.
- HON. WM. M. EVARTS, M. C., New York City.
 Descriptive Catalogue of the Government Publications. 1774-1881.
- WM. BEUTTENMÜLLER, New York City.
 Reports of the Commissioner of General Land Office. 1872-1875, 1877, 1879, 1880 (2 copies), 1881 (2 copies), 1882.
 Reports of the Commissioner of Indian Affairs. 1871-1882.
 Report of the Secretary of War. Vol. I. 1871-72.
 Reports of the Chief of Engineers. Part I, 1877. Parts I-III, 1881. I-III, 1882.
 Reports of the Commissioner of Education. 1873, 1874, 1875, 1878, 1880.
 Reports of the Life-Saving Service. 1878, 1880, 1881.
 Annual Report Chief Signal Office. 1879.
 • Annual Reports of the Board of Indian Commissioners. 1874, 1875, 1876, 1878-1884.
 Reports of the Director of the Mint. 1877, 1879, 1880.
 Report of the Director of the Mint. Precious Metals of the United States. 1880, 1881, 1882.
 Reports of the Light House Board. 1852, 1875-1881.
 Reports of the Supervising Architect (Treasury Department). 1874, 1877, 1879, 1880, 1881.
 Consular Reports. Nos. 1, 2, 3, 1880-81. 18, 1882.
 Message and Documents. Department of the Interior. 1870-71, Part 2. 1872-73, Part 2. Navy Department. 1875-76.
 Report of the Commissioner of Patents. Part II. Agriculture. 1851.
 Andrew's Report of the Colonial Lake Trade. 1852.

- Compendium of the Tenth Census. Parts I-II.
 Sanitary and Statistical Report of the Surgeon General—Navy. 1881.
 Hygienic and Medical Reports. 1879.
 Half-Breed Scrip. Chippewas of Lake Superior.
 "Mining Débris in California River."
 Mining Débris in Sacramento River.
 List of Specimens in the Anatomical Section of the U. S. Army Medical Museum.
 "Contribution to Medical Education, etc."
 The Navigation of the Pacific Ocean, China Seas, etc.
 Department of Agriculture. Special Reports. 1, 2, 4, 6, 7, 8, 10, 16, 17, 19, 20, 21, 23-27, 29, 30, 32, 36-46, 48-57, 59, 60, 61, 64, 65.
 Culture of Sugar Beet.
 Department of Agriculture. Its History and Objects.
 List of Agricultural Societies and Farmers' Clubs.
 Systematic Catalogue of Vertebrata, etc. By E. D. Cope.
 Fourth to Tenth Annual Reports of the Philadelphia Zoological Society.
 Thirtieth and Thirty-first Annual Reports of the Indiana State Board of Agriculture. 1880, 1881.
 Thirty-third Annual Report Ohio State Board of Agriculture. 1879.
 Fifteenth Annual Report Missouri State Board of Agriculture. 1880 and 1881.
 Transactions of the N. Y. State Agricultural Society. Vol. XXXI. 1871.
 A Synopsis of Natural History. By T. Wyatt.
 Atlas to K. A. Schönke's Naturgeschichte.
 Journal of the American Agricultural Association. Vol. 1. Nos. 1, 3, 4. 1881. Supplement January, 1882.
 Food-Plants of Lepidoptera. (The author.)
- GEO. F. KUNZ (the author), New York City.
 "Gems and Mineral Notes."
 "Mineralogical Notes."
 "The Gems of the National Museum."
 "Extracts from the Notes on the Bement Collection of Minerals."
 "On Remarkable Copper Minerals from Arizona."
- H. A. MOTT, Ph. D. (Editor), New York City.
 The Microcosm. Vol. V., 4, 5, 6. 1886.
- DANIEL DRAPER, Ph. D., Director, New York Meteorological Observatory.
 Annual Report. 1886.
 Memoir of John Wm. Draper. 1811-1882.—Barker.
- N. D. C. HODGES, Editor "Science," New York City.
 K. K. Geol. Reichsanstalt, Jahrbuch, Band XXXIV. 1884, Heft, II, III, IV. Band XXXV. 1885. Heft, I-III.
 Verhandlungen Jahr. 1884. Nr. 4-8. 1885, Nr. 1-7.
 Atti Istituto Veneto. Tomo, III. Disp. 1-10. 1884-85. Tomo, IV. Disp. 1-3. 1885-86.
 Nat. Gesellschaft. Danzig. Schriften 16 Bd. Heft, I-II. 1884, 1885.
 Nat. Gesellschaft. Zürich. Vierteljahrsschrift 28 Jahr. 1883-84. 29 Jahr. 1884.
 Norsk Fiskeritidende. 1885.
 Göteborgs K. Vetenskaps och Viterhets Samhälles. Handlinger. Heft, XVII, XVIII, XIX. 1881-84.
 Manchester Literary and Philosophical Society. Proceedings. Vol. XX, 1880-81. XXI, 1881-82. XXII, 1882-83.

- Yorkshire Geological Polytechnic Society. Proceedings. Vol. VIII, 1882-1884.
- Manchester Science : Students' Association. Report and Proceedings. 1882, 1883, 1884.
- Natural History Society of Glasgow. Proceedings and Transactions. Part I. 1883-84.
- Edinburgh Geological Society. Transactions. Vol. V. Part I.
- Geologist Association. Proceedings. Vol. IX. Nos. 1, 2.
- Société Géologique de Belge. Annales. Vol. IX, 1881-82. X, 1882-83. XI, 1883-84.
- Royal Society of New South Wales. Journal and Proceedings. Vol. XVIII. 1884.
- Cambridge Philosophical Society. Proceedings. Vol. V. 1883-85.
- Société Roy. Malacologique de Belge. Annales Tome, XIX.
- Société Géologique du Nord. Annales, XI, 1883-84.
- Royal Geological Institute—Hug. Mittheilungen aus dem Jahrbuche d. K. Ung. Geol. Anstalt, VII.
- Naturfor. Gesellschafft in Bern. Mittheilungen. 1885. 11 Heft.
- Institut Royale Géol. de Suède. Sveriges Geologiska Undersökning. Ser. C. 53-56, 58-62, 67, 68, 71-74-77, 63, 64, 66, 69, 70-73.
- Società Crittogamologica Italiana. Atti. Vol. III. 1884-85.
- "Système Crétacique du Portugal." By P. Choffat.
- Nieuwe Verhandelingen. Bataafsch Genootschap.
- L'Acad. d. Scienc de Toulouse. Mémoires. Tome. VII.
- R. Accademia delle Scienze di Torino. Vol. XIX.
- Catalogus der Bibliotheek van de K. Nat. Ver. in Nederlandsch.—Indie.
- Natuurkundig Tijdschrift v Nederlandsch.—Indie. Deel xlv.
- Società degli Alpinisti Tridentini XI. Annuario 1884-85.
- Société Française de Botanique. Revue Botanique. Vol. IV. Nos. 37-44.
- Société Africana. D'Italia. Bullettino della Sezione Fiorentina. Vol. I, 1-6.
- Société Vaudoise. Bulletin. Vol. XIX, 89.
- Fra Direktion for, Selskabet for de norske Fiskeriers Fremme.
- Fauna Terciaria de Portugal. By J. C. B. Cotter.
- "On the Miocene of Haiti." By R. J. L. Guppy.
- Verslagen en Mededeelingen. Amsterdam.
- Nieuw Archief voor Wiskunde. Deel. XII. Stuk. I.
- J. A. ALLEN (the author), New York City.
- "A Revised List of the Birds of Massachusetts."
- Bulletin No. 1, American Ornithologist Union.
- PROF. A. S. BICKMORE, New York City.
- The Indian. Vol. I, 1, 2, 3. 1885.
- Bulletin, U. S. Geological Survey. No. 14.
- Naturalists' Directory, 1878, 1880.—Cassino.
- Catalogue of Zoological and Anthropological Books.
- Catalogue of Valuable Books.—Lindsay.
- Extracts from the Notes on the Bement Collection of Minerals.—Kunz.
- Bericht über die Verwaltung der Königlichen Sammlungen für Kunst und Wissenschaft zu Dresden. 1882 und 1883.
- DR. J. B. HOLDER (the author), New York City.
- "Some Moot Points in American Archæology."
- L. P. GRATACAP, New Brighton, Staten Island, N. Y.
- Preliminary Report on the Geology and Agriculture of Southern Mississippi. By L. Harper.

- W. A. CONKLIN, Ph. D., New York City.
 The Journal (formerly Archives), Comparative Medicine and Surgery.
 Vol. VII. 1886.
 Report on the Zoological Department. Document No. 102. D. P. P.
- D. G. ELLIOT, New York City.
 Forest and Stream. 26 vols.
- PROF. S. E. MEEK, New York City.
 Tenth-Fourteenth Annual Reports N. Y. Fishery Commission. 1877-1885.
- SANDERSON SMITH, New Brighton, Staten Island, N. Y.
 Annual Reports Academy of Natural Science, Philadelphia. First to Tenth. 1868-1877.
 Report of the Condition of the Academy of Natural Science. By W. S. W. Ruschenberger.
 Members and Correspondents of the Academy. 1877.
 Annual Reports of the Museum of Comparative Zoology. 1867, 1868, 1869, 1871.
 "Directions for collecting objects of Natural History."
 "Domesticated Animals."
 Regulations for the use of the Museum.
 Publications of the Museum.
 Circular in reference to obtaining Data concerning the distribution of North American Birds in the breeding season.
 List of American Fossils for exchange. Mus. Comp. Zool.
 List of European Fossils for exchange. Mus. Comp. Zool.
 Address delivered before the Boston Society of Natural History. By H. Winslow.
 Annual Report of the Trustees of the Astor Library. 1854.
 Geological Survey of Canada. Report of Progress. 1850-51.
 Memorial of Edward Jarvis, M. D. By R. W. Wood, M. D.
 John Hampden's Letter to Professor Huxley.
 The Earth. By J. Hampden. No. 1, 2, 3, 4.
- GEO. N. LAWRENCE (the author), New York City.
 "List of a few species of Birds new to the Fauna of Guadeloupe, West Indies, with a description of a new species of Ceryle."
- J. B. SNIFFEN, New York City.
 "Hittites in America."—Campbell.
 The Khitan Languages; the Aztec and its Relations.—Campbell.
 "Indian Languages of the Pacific States and Territories."—Gatschet.
 "Indian Languages of the Pueblos of New Mexico."—Gatschet.
 The Numeral Adjective in the Klamath Language of Southern Oregon.—Gatschet.
 Japi Oaye. II, III, IV. By J. P. Williamson.
 An Explanation of the Elementary Characters of the Chinese. 1801.
 By Joseph Hager, D. D.
- WM. WALLACE, New York City.
 Address delivered on the Centennial Anniversary of the Birth of Alexander Von Humboldt. By L. Agassiz.
- A. W. VOGDES, New York City.
 "Description of a New Crustacean from the Clinton Group of Georgia, with remarks upon others."—(The author).
 Report of Proceedings of the National Academy of Science. 1880.
 "Notes on the Distribution of Iron Ores in the United States."
- PROF. J. A. LINTNER, Albany, N. Y.
 Second Annual Report of N. Y. State Entomologist.

- PROF. L. M. UNDERWOOD, Syracuse, N. Y.
Bulletin No. 1. List of the Birds of Onondaga County. By M. K. Barnum.
- PROF. JAMES HALL, Albany, N. Y.
Geological Survey. State of New York, Palæontology. Vol. V.
"Lamellibranchiata." Part I. Plates Nos. 81-92. Vol. V.
"Lamellibranchiata." Part II, Text. Plates 35 and 42, 93-96.
- WM. W. GRIFFIN, Lynn, Mass.
Annual Report Massachusetts State Board of Agriculture. Tenth, 1862. Thirteenth, 1865.
- PROF. S. I. SMITH (the author), New Haven, Conn.
"Report on the Decapod Crustacea of the "Albatross" Dredgings.
- PROF. E. S. MORSE (the author), Salem, Mass.
"Ancient and Modern Methods of Arrow-Release."
- S. M. TRACY (the author), Jefferson City, Mo.
Catalogue of the Phaenogamous and Vascular Cryptogamous Plants of Missouri.
- PROF. G. H. PERKINS (the author), Burlington, Vt.
"The Stone Ax in Vermont."
- G. K. GILBERT (the author), Washington, D. C.
"The Topographic Features of Lake Shores."
- F. W. PUTNAM (the author), Cambridge, Mass.
"On Jadeite Ornaments from Central America."
- PROF. G. H. FRENCH (the author), Carbondale, Ill.
The Butterflies of Eastern United States.
- PROF. E. C. PICKERING, Director, Cambridge, Mass.
Photographic Study of Stellar Spectra.—H. Draper, Memorial.
Observations of Variable Stars in 1885.
A Plan for the Extension of Astronomical Research.
Annals Harvard College Observatory. Vol. XV. Part 1.
Catalogue of 1213 Stars. Vol. XVI. 1886.
Fourteenth Annual Report. 1886.
An Investigation in Stellar Photography.
- T. L. CASEY (the author), San Francisco, Cal.
Descriptive Notices of North American Coleoptera.
New Genera and Species of Californian Coleoptera.
- LORENZO G. YATES (the author), Santa Barbara, Cal.
Catalogue of Shells, Minerals, Fossils, Indian Relics.
Catalogue of Exotic Ferns and Lycopodiaceæ.
Catalogue of Ferns of North America.
"The Mollusca and the Ferns."
- WM. H. DECAMP, Grand Rapids, Mich.
List of the Shell-Bearing Mollusca of Michigan.—Currier.
List of the Shell-Bearing Mollusca of Michigan.—The author.
- F. M. WITTER (the author), Muscatine, Iowa.
The Mollusca of Muscatine County and Vicinity.
Natural Science in Muscatine.
"Notes on Pieris Rapæ. Schrank."
"Notes on Wyoming Hills."
"Notes on the Loess."
"Mound and Mound Builders in Muscatine County, Iowa."
Science Teaching in Lower Grades.
Report of the Muscatine City Schools.

- J. J. BROWN, M. D. (the author), Sheboygan, Wis.
 Land Shells in the Collection of J. J. Brown.
 Marine Shells in the Collection of J. J. Brown.
 Univalve. Hygrophila and Thalassophila.
 Unionidæ and Cyrenidæ.
 New Discoveries in Natural Science.
- PROF. J. LECONTE (the author), Berkeley, Cal.
 A Post-Tertiary Elevation of the Sierra Nevada shown by River
 Beds.
- D. G. BRINTON, A. M., M. D. (the author), Philadelphia, Pa.
 "The Conception of Love in American Languages."
 "Ikonomatic Writing."
- G. F. BECKER (the author), California.
 "Cretaceous Metamorphic Rocks of California."
 Washo Rocks.
- C. R. ORCUTT, Editor, San Diego, Cal.
 West American Scientist. Vol. I, 3, 4, 5, 6, 7, 8, 10, 11. Vol. II,
 13-19. III, 20. 1884-86.
- W. D. AVERELL, Editor, Philadelphia, Pa.
 The Conchologists' Exchange. Vol. I, 1-5. 1886.
- S. JACKSON, D. D. (the author), Washington, D. C.
 The Presbyterian Church in Alaska : Rise and Progress. 1877-1884.
 "Difficulties at Sitka, Alaska, in 1885."
- J. A. RYDER (the author), Washington, D. C.
 "On the development of Viviparous Osseous Fishes and of the
 Atlantic Salmon."
- PROF. T. R. JONES (the author), London, England.
 "Notes on the Palæozoic Bivalved Entomostra. Nos. XX, XXI."
 "On some Fossil Ostracoda from Colorado."
- C. A. BOUCARD (the author), Paris, France.
 Listé des Coléoptères.
- A. RAIMONDI (the author), through Olivo Chiarella, New York City.
 "Aguas Potables del Peru."
 "Mines de Oro de Carabaya."
- A. W. BUTLER (the author), Brookville, Ind.
 "The Sacrificial Stone of San Juan, Testihuacan."
 "Local Weather Lore."
 "Hibernation of the Lower Vertebrates."
 "The Periodical Cicada in Southeastern Indiana."
 "Observations on the Muskrat."
- COL. N. S. GOSS (the author), Topeka, Kansas.
 A revised Catalogue of the Birds of Kansas. 1886.
- FRANK COWAN (the author), Greensburg, Pa.
 Australia : A Charcoal-Sketch.
- WM. M. BEAUCHAMP (the author), Baldwinsville, N. Y.
 "Land and Fresh-Water Shells, etc."
- C. WACHSMUTH and F. SPRINGER (the authors).
 Revision of the Palæocrinoidea. Part III. 1886.
- W. H. HUDSON, Commissioner, Hartford, Conn.
 Twenty-First Report of the Fish Commission. 1886.
- R. G. PIKE, Jr., Middletown, Conn.
 Sixth Report Shell Fish Commissioners. 1886.

- PROF. N. H. WINCHELL, State Geologist of Minnesota, Minneapolis.
Thirteenth Annual Report. 1884.
Fourteenth Annual Report. 1885.
- PROF. EUGENE A. SMITH, State Geologist of Alabama, Tuscaloosa.
"Warrior Coal Field. By Henry McCally."
Bulletin. No. 1. 1886.
- C. GIBB (the author), Toronto, Canada.
"Report on Russian Fruits."
- REV. D. HONEYMAN (the author), Nova Scotia.
"Geology of Cornwallis or McNab's Island, Halifax Harbor."
- R. L. JACK, Government Geologist, Townsville, Queensland.
"Report on the Gold deposits of Mount Leyshon."
- FRANK RUTLEY (the author), London, England.
"On some Eruptive Rocks from the Neighborhood of St. Minver, Cornwall."
"Notes on Alteration induced by Heat in certain Vitreous Rocks."
"The Felsitic Lavas of England and Wales."
- M. A. DE GREGORIO (the author), Sicily.
"Frédéric Lancia de Brolo. Notice Biographique."
"Nota Intorno a Taluni Fossili di Monte Erice di Sicilia."
- DR. OTTO FINSCH (the author), Bremen, Germany.
"Catalog der Ethnologischen Sammlung der Neu Guinea, etc."
"Ueber Bekleidung, Schmuck und Tätowierung der Papuas der Südostküste von Neu Guinea."
"Nota intorno ad alcune Conchiglie Mediterranee Videnti e Fossili."
- A. COLIN (the Editor), Paris, France.
Revue International de l'Enseignement. No. 5. 1886.
- AMERICAN CHEMICAL SOCIETY, New York City.
Journal. VII, 10; VIII, 1-7. 1886.
- TORREY BOTANICAL CLUB, New York City.
Bulletin. Vol. XII, 12; XIII. 1885, 1886.
- NEW YORK MICROSCOPICAL SOCIETY, N. Y.
Journal. Vol. I, 8, 9; II, 1, 8. 1885-1886.
- NEW YORK ACADEMY OF SCIENCES, N. Y.
Annals. Vol. III. No. 9. 1885.
Transactions. Vol. V, 2-5. 1886.
- METROPOLITAN MUSEUM OF ART, New York City.
Sixteenth Report. 1886.
- COLUMBIA COLLEGE, New York City.
First Annual Report, Librarian. 1884.
Second and Third Annual Report of the Chief Librarian. 1886.
Circular of Information. 1885.
- ASTOR LIBRARY, New York City.
Thirty-seventh Annual Report. 1885.
- CHAMBER OF COMMERCE, New York City.
"The Dodge Statue."
- MILITARY SERVICE INSTITUTE, Governor's Island, N. Y.
Journal. Vol. VII, 25-28. 1886.
- BROOKLYN ENTOMOLOGICAL SOCIETY, N. Y.
Entomologica Americana. Vol. I, 10-12. 1886. II, 1-8. 1886.
- NATURAL SCIENCE ASSOCIATION, New Brighton, Staten Island, N. Y.
Proceedings. 1886.

- AMERICAN INSTITUTE OF MINING ENGINEERS, N. Y.
Transactions. Vol. XIV. 1886.
List of Officers and Members, Rules, etc.
The Geological Map of the United States.
71 Pamphlets.
- CORNELL UNIVERSITY, Ithaca, N. Y.
Cornell University Register. 1885-86.
Bulletin. Vol. II. The Cayuga Flora. 1886.
- MAIMONIDES LIBRARY, N. Y.
Report of Librarian. 1886.
- AMERICAN SOCIETY OF MICROSCOPISTS, Buffalo, N. Y.
Proceedings. 1885.
- ONEIDA HISTORICAL SOCIETY, Utica, N. Y.
Transactions. 1881-84.
- NEW YORK STATE MUSEUM OF NATURAL HISTORY, Albany, N. Y.
Thirty-Second Annual Report. 1879.
- STATE OF NEW JERSEY, through Prof. Geo. H. Cook, State Geologist,
New Brunswick.
Agricultural Experiment Station. Report. 1885.
" " " Bulletin. XXXVIII-XL.
Annual Report State Geologist. 1885.
Geological Survey. "The Atlas of New Jersey. Sheets, 1, 9, 13,
17. Cape, etc."
Brachiopoda and Lamellibranchiata, Cretaceous and Tertiary. By R.
P. Whitfield.
- NEW JERSEY HISTORICAL SOCIETY, Newark.
Archives. Vols. IX, X. 1885, 1886.
Proceedings. Vol. IX, 1, 2. 1886.
- TRENTON NATURAL HISTORY SOCIETY, New Jersey.
Journal. Vol. I, 1. 1886.
- VASSAR BROS.' INSTITUTE, Poughkeepsie, N. Y.
Transactions. Vol. III, Pt. I. 1884-1885.
- ZOOLOGICAL SOCIETY OF PHILADELPHIA, Pa.
Fourteenth Annual Report. 1886.
- JOHNS HOPKINS UNIVERSITY, Baltimore, Md.
Circular. Vol. V, 47, 50; VI, 53.
- WESLEYAN UNIVERSITY, Middletown, Conn.
Fourteenth Annual Report. 1885.
- VERMONT STATE AGRICULTURAL COLLEGE, Burlington.
Catalogue of the University. 1885-86.
- CONNECTICUT STATE BOARD OF AGRICULTURE, Hartford.
Eighteenth Annual Report. 1884-1885.
Nineteenth Annual Report. 1885.
- MASSACHUSETTS STATE BOARD OF AGRICULTURE, Boston.
Thirtieth Annual Report. 1882.
Thirty-First Annual Report. 1883.
Thirty-Second Annual Report. 1884.
Thirty-Third Annual Report. 1885.
- MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.
Bulletin. Vols. XII, 3-6; XIII, 1. 1886.
Annual Report. 1885-86.

- PEABODY ACADEMY OF SCIENCES, Salem, Mass.
Annual Report. 1886.
"Ancient and Modern Methods of Arrow-Release."—Morse.
- WORCESTER SOCIETY OF ANTIQUITY, Mass.
Proceedings. 1885. No. XXIII.
- APPALACHIAN MOUNTAIN CLUB, Boston, Mass.
Appalachia. Vol. IV. No. III. 1886.
Register of the Appalachian Mountain Club. 1886.
- NORTH CAROLINA STATE AGRICULTURAL EXPERIMENT STATION, through C. W. Dabney, Jr., Raleigh.
Annual Report. 1885.
- PENNSYLVANIA STATE BOARD OF AGRICULTURE, Harrisburg.
Annual Reports. 1883, 1884, 1885.
- NEWPORT NATURAL HISTORY SOCIETY, Rhode Island.
Proceedings. 1885-86.
- WYOMING HISTORICAL AND GEOLOGICAL SOCIETY, Wilkes-Barre, Pa.
Proceedings. Vol. II, Part 2. 1886.
- PEABODY MUSEUM, ARCHÆOLOGY AND ETHNOLOGY, Cambridge, Mass.
Eighteenth and Nineteenth Annual Report. Vol. III, 5, 6. 1886.
- ENTOMOLOGICAL SOCIETY OF WASHINGTON, D. C.
Proceedings. Vol. I, 1. 1886.
- CALIFORNIA ACADEMY OF SCIENCES, San Francisco.
Bulletin. Vol. I, 4; II, 5. 1885, 1886.
- UNIVERSITY OF CALIFORNIA, Sacramento.
College of Agriculture.
Report of the Professor of Agriculture. 1879, 1880, 1882, 1884.
"The Phylloxera or Grapevine Louse.—Hilgard."
Report of the Viticultural Work. 1883-4 and 1884-5.
Bulletin. Agricultural Experiment Station. No. 55.
- STATE AGRICULTURAL SOCIETY, Sacramento, California.
Transactions. 1885.
- COLORADO SCIENTIFIC SOCIETY, Denver.
Proceedings. Vol. II., Part I. 1886.
- DAVENPORT ACADEMY OF NATURAL SCIENCE.
"Elephant Pipes and Inscribed Tablets in the Museum."
Proceedings. Vol. IV. 1882-1884.
- CINCINNATI SOCIETY OF NATURAL HISTORY, Cincinnati, Ohio.
Journal. Vol. VIII, 4, 1885; IX, 1, 2, 3, 1886.
- DENISON UNIVERSITY, Granville, Ohio.
Bulletin. Vol. I. 1885.
- STATE HISTORICAL SOCIETY, Madison, Wis.
Thirty-second Annual Report. 1886.
- ILLINOIS STATE LABORATORY, Champaign.
Bulletin. Vol. II. Art. II. 1885. IV. 1886.
- ILLINOIS STATE BOARD OF AGRICULTURE, through the Secretary, Springfield.
Circulars. Nos. 126, 128, 129, 131.
Monthly Weather Review, April, May. 1886.
- WISCONSIN ACADEMY OF SCIENCE AND ART, Madison.
Transactions. 1881-83. Vol. VI. 1886.

- MICHIGAN STATE BOARD OF AGRICULTURE, through H. G. Reynolds, Secretary, Agricultural College.
Twenty-fourth Annual Report. 1886.
Bulletins. Nos. 10, 11, 13-16, 19-21. 1886.
- WASHBURN COLLEGE LABORATORY OF NATURAL HISTORY,
Kansas.
Bulletin. Vol. I, 5-6. 1886.
- KANSAS STATE AGRICULTURAL COLLEGE, Manhattan.
The Industrialist. Vol. XI, 1885. XII, 9-12, 18, 19, 1886.
- STATE LIBRARY, Topeka, Kansas.
Fifth Biennial Report. 1886.
- KANSAS STATE HISTORICAL SOCIETY, Topeka.
Transactions. Vol. II. 1883-1885.
- GEOLOGICAL AND NATURAL HISTORY SURVEY OF CANADA,
through A. R. Selwyn, Director, Ottawa.
"Summary Report of the Operations of the Survey."
Descriptive Catalogue of a Collection of the Economic Minerals of
Canada. 1886.
- ROYAL SOCIETY OF CANADA, Montreal.
Proceedings and Transactions. Vol. III. 1885.
- CANADIAN INSTITUTE, Toronto, Canada.
Proceedings. Vol. III, 3, 4; IV., 1.
- NATURAL HISTORY SOCIETY OF MONTREAL, Canada.
The Canadian Record of Science. Vol. I, 1-4. 1886.
- ENTOMOLOGICAL SOCIETY OF LONDON, Ontario, Canada.
The Canadian Entomologist. Vol. XVII, 12. 1885; XVIII, 1-9.
1886.
- OTTAWA FIELD NATURALIST CLUB, Canada.
Transactions. Vol. II. Part II. No. 6. 1886.
- MANITOBA HISTORICAL AND SCIENTIFIC SOCIETY, Winnipeg,
Canada.
Transactions. No. 19. The Old Settlers of Red-River.—Bryce.
" No. 20. Notes on the Geology of some Islands in
Lake Winnipeg.—Panton.
" No. 21. On the proposed change of time marking.—
Goodridge.
Annual Report. 1885-86.
- DEPARTMENTS OF MINES, Nova Scotia, Canada.
Report of the Inspector. 1885.—E. Gilpin, jr.
- DEPARTMENT OF MARINE AND FISHERIES, Ottawa, Can.
Report on the Fisheries of Canada. 1885.
- MONTREAL HISTORICAL SOCIETY, Canada.
First Annual Report. 1876.
Third-Eleventh Annual Report. 1877-1885.
- THE ROYAL SOCIETY, London, England.
Proceedings. Vol. XXXIX., Nos. 240-242. 1885-86; XL, Nos.
243-246; XLI, No. 247. 1886.
- GEOLOGISTS' ASSOCIATION, London, England.
Proceedings. Vol. IX, 4-7. 1885-86.
- MANCHESTER GEOLOGICAL SOCIETY, England.
Transactions. Vol. XVIII. Parts 12-20. 1885-86; XIX. Part 1.
1886.

- MANCHESTER FIELD NATURALIST AND ARCHÆOLOGICAL SOCIETY, England.
Report and Proceedings. 1885.
- BELFAST NATURALISTS' FIELD CLUB, England.
Annual Report and Proceedings. 1884-85. Series II. Vol. II, 5. 1886.
- HERTFORDSHIRE NATURAL HISTORY SOCIETY, England.
Transactions. Vol. III. Parts 5, 6, 7, 8, 9. 1885-1886; IV, 1, 2. 1886.
"Catalogue of the Library."
- LIVERPOOL NATURALISTS' FIELD CLUB, England.
Proceedings. 1885-86.
- BRISTOL NATURALISTS' SOCIETY, England.
Proceedings. N.S. Vol. V. Part I. 1885-86.
"List of Officers and Council, etc." 1886.
- BOTANICAL SOCIETY OF EDINBURGH, Scotland.
Transactions and Proceedings. Vol. XV. Part II. 1885; XVI. II. 1886.
- METEOROLOGICAL OFFICE, London, England.
Observations of the International Polar Expeditions. 1882-83. Fort Rae.
- SOCIETÀ ADRIATICA DI SCIENZE NATURALI IN TRIESTE, Austria.
Bollettino. Vol. IX. Nro. I., II. 1885-1886.
- REAL ACADEMIA DE CIENCIAS, Madrid, Spain.
Revista de los Progresos de las Ciencias. Tome XXI. 7, 8, 9; 22, 1. 1886.
- HZL. NATURHISTORISCHES MUSEUM, Braunschweig.
Beiträge zur Kenntniss der Vogelfauna von Celebes. By Dr. W. Blasius.
"Ueber einen vermuthlich neuen Trompeter Vogel von Bolivia." By Dr. W. Blasius.
"Ueber Vogel-Brustbeine."—Dr. W. Blasius.
"Die Raubvögel von Cochabamba."—Dr. W. Blasius.
Ornithologischen Forschungen in Süd-Ost Borneo.—Dr. W. Blasius.
"Ueber einige Vögel von Cochabamba in Bolivia."—Dr. W. Blasius.
Osteologische Studien Messungs-Methoden an Vogel Skeletten.—Dr. W. Blasius.
"Ornis des Thales von Cochabamba in Bolivia." By E. von Boeck.
- ROYAL SOCIETY OF TASMANIA.
Papers and Proceedings. 1885.
- MUSEO CIVICO DI STORIA NATURALE DI TRIESTE.
Atti. Vol. VII. 1884.
- NATURAL HISTORY SOCIETY OF BOMBAY, India.
Journal. Vol. I, 1, 2, 3.
- R. UNIVERSITÀ DI TORINO, Italy.
Bollettino Musei di Zoologia et Anatomia. Vol. I, 1-85. 1886.
- THE AUSTRALIAN MUSEUM, Sydney.
Report of the Trustees for 1884, and Supplement.
Descriptive Catalogue of Minerals. By B. F. Ratte.
Catalogue of the Echinodermata in the Australian Museum. By E. P. Ramsay.
Report of the Trustees. 1885-6.

SMITHSONIAN INSTITUTION, Washington, D. C.

U. S. Fish Commission. The Fish Industries of the United States.
1884.

Report, 1883. Part XI, 1885; 1884, Part XII. 1886.

Annual Report for 1884. Parts I. II. 1885, 1886.

Philosophical Society. Bulletin. Vol. VII. 1885.

Biographical Society. Proceedings. Vol. III. 1886.

THROUGH THE SMITHSONIAN INSTITUTION, Washington, D. C.

OFFICE OF INTERNATIONAL EXCHANGES, Washington, D. C.

SOCIÉTÉ GÉOLOGIQUE DE FRANCE, Paris.

Bulletin. 3e Série, tome XIV. 1-7. 1886.

SOCIÉTÉ ZOOLOGIQUE DE FRANCE, Paris.

Bulletin. Nos. 1, 2, 1884; Nos. 4, 6, 1885; Nos. 1, 2, 3, 4, 1886.

SOCIÉTÉ D'EMULATION D'ABBEVILLE, France.

Bulletin. 1885.

LINNEAN SOCIETY OF NEW SOUTH WALES, Sydney, Australia.

Proceedings. Vol. X. Parts 3, 4, 1885-86. 2d Ser., Vol. I. Parts
1, 2, 1886.

Record of Proceedings. 1885.

Catalogue of the Library of the Linnean Society.

SOCIÉTÉ VAUDOISE, Lausanne.

Bulletin. Ser. 2. Vol. XX. Nos. 92. Ser. 3, XXI. 93. 1885-86.

ROYAL GEOLOGICAL SOCIETY OF IRELAND, Dublin.

Journal. Vol. VI, Part III, 1882-84; VII, Part I, 1884-85.

WETTERAUISCHE GESELLSCHAFT FÜR DIE GESAMMTE NATURKUNDE ZU
HANAN.

Bericht. 1885.

K. K. NATURHISTORISCHEN HOF-MUSEUMS, Vienna.

Annalen. Band I. 1, 2, 3, 4. 1886.

NASSUVISCHEN VEREINS NATURKUNDE, Wiesbaden.

Jahrbücher. Jahr. 38. 1885; 39. 1886.

NATURWISSENSCHAFTLICHEN VEREIN, Frankfurt a Oder.

Monatliche Mittheilungen. 2 Jahr. 7, 12, 1884-85. 3 Jahr. 1.
12, 1885-86; 4 Jahr. 1, 5, 1886-87.

NATURWISSENSCHAFTLICHEN VEREIN IN MAGDEBURG.

Jahresbericht und Abhandlungen. 1885.

THURGAUISCHE NATURFORSCHENDE GESELLSCHAFT, Frauenfeld.

Mittheilungen. Siebentes Heft. 1886.

DER NATURWISSENSCHAFTLICHE VEREIN FÜR STEIERMARK, Gratz.

Mittheilungen. XXXIV. Heft. 1886.

Beiträge. 21 Jahr. 1886.

MUSÉE ROYAL D'HISTOIRE NATURELLE DE BELGIQUE, Brussels.

Bulletin. Vol. IV, 1-3. 1886.

KONGL. VETENSKAPS-AKADEMIENS, Stockholm.

Oversigt. 1885, No. 6, 8, 9, 10. 1886, No. 3, 4, 6.

LA SOCIÉTÉ ENTOMOLOGIQUE A STOCKHOLM.

Entomologisk Tidskrift. 1886. Häft. 1-4.

NATURAL HISTORY SOCIETY, Odessa, Russia.

Tome. X. Part II. 1886.

L'ACADÉMIE ROYALE DE COPENHAGEN.

Oversigt. 1885, No. 3. 1886, No. 1.

DET KONGELIGE D'VIDENSKABERNES SELSKABS, Copenhagen.

Oversigt. No. 2. 1885.

K. K. GEOLOGISCHE REICHSANSTALT (Wien), Vienna.

Verhandlungen. Jahr. 1885, 10-18. 1886, 1, 2, 3, 4.

SOCIÉTÉ DES SCIENCE DE CHRISTIANIA.

Forhandlungen. 1885.

- ST. GALLISCHEN NATURWISSENSCHAFTLICHEN GESELLSCHAFT.
Bericht. 1883-84.
- NATURFORSCHENDEN GESELLSCHAFT IN BERN.
Mittheilungen. Jahr. 1885. Heft. II. III.
- DER NATURWISSENSCHAFTLICHE VEREIN FÜR STEIERMARK, Gratz.
Mittheilungen. Jahr. 1885.
- DET KONGELIGE NORSKE VIDENSKABERS, Thronhjelm.
Skrifter. 1884.
- SOCIÉTÉ DES NATURALISTES DE LA NOUVELLE-RUSSIE, Odessa.
Bulletin. Vol. XI. 1886.
"Die Fossilen Vogel-Knochen der Odessaer.."—Widhalm.
- SOCIÉTÉ IMPÉRIALE DES NATURALISTES DE MOSCOU.
Bulletin. 1884, No. 4. 1885, No. 1. 1886, No. 1, 2, 3 et 4.
- KONGL. VETENSKAPS AKADEMIEN, etc., Stockholm.
Ofversigt. 1885, No. 7. 1886, Nos. 1, 2.
- MUSEO NACIONAL DE MEXICO.
Anales. Tomo, III. 9. 1886.
- MUSEO NACIONAL DE RIO DE JANEIRO.
Archivos. Vol. VI. 1885.
"Conférence faite au Museum National."
Lettre. E. Reuan. L'Inscription Phénicienne apocryphe.
- MUSÉE D'HISTOIRE NATURELLE DE BELGIQUE, Brussels.
Bulletin. Tomo IV, 2. 1886.
- K. LEOP.—CAROL. DEUTSCHEN AKADEMIE DER NATURFORSCHER HALLE.
Leopoldina. Heft. XX, XXI. 1884, 1885.
- BIBLIOTHEEK DER RIJKS-UNIVERSITEIT, Leiden.
Academisch Proefschrift.—M. C. Dekhuyzen.
" " —L. P. C. Luyten.
" " —R. J. Escher.
Iets over Empeyembehandeling.—J. Thomee.
Metingen over de Elliptische Polarisatie van het Licht.—R. Sissingh.
- R. ISTITUTO DI STUDI SUPERIORI, ETC.—Firenze.
Archivio della Scuolad 'Anatomia Patologia. Vol. I. 1881.
"Sulle convulsioni epilettiche per Velene."—Luciani.
- TREASURY DEPARTMENT, Washington, D. C.
BUREAU OF THE MINT.
Precious Metals in the U. S. 1883-1884.
Production of the Precious Metals in the U. S. 1885.
Fourteenth Annual Report. 1886.
- OFFICE SUPT. U. S. LIFE-SAVING SERVICE.
Annual Report. 1885.
- OFFICE OF THE LIGHTHOUSE BOARD.
Annual Report. 1885.
- WAR DEPARTMENT, Washington, D. C.
DEPARTMENT OF ENGINEERS.
Tables of Geographic Position, Azimuths, and Distances.
Annual Reports. 1884, 1885.
Reports of the Missouri River Commission. 1885.
Report of a Military Reconnaissance in Alaska. 1883.
Report upon the Third International Geographical Congress and Exhibition at Venice, Italy, 1881.
- OFFICE OF THE CHIEF SIGNAL OFFICER.
Month., Weather Review. Sept., 1884; Nov., Dec., 1885; March, April, May, June, July, Aug., Sept., 1886.
Summary and Review. Nov., 1884; Dec., 1884; Jan., Feb., March, April, July, 1885.
Annual Report Chief Signal Officer. 1884.

DEPARTMENT OF STATE, Washington, D. C.

Consular Report. Nos. 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 68½, 69, 70. 1885-86.

DEPARTMENT OF THE INTERIOR, Washington, D. C.

U. S. NATIONAL MUSEUM, Washington, D. C.

Bulletin. No. 23. 1885.

U. S. GEOLOGICAL SURVEY.

Bulletins. Nos. 15-29. 1885, 1886.

Mineral Resources of the U. S. 1883-84.

Monograph IX. Brachiopoda and Lamellibranchiata of the Raritan Clays and Green Sand Marl, N. J. By Prof. R. P. Whitfield.

Fifth Annual Report. 1883-84.

BUREAU OF EDUCATION.

Report of the Commissioner. 1883-84.

Report on Education in Alaska.—Jackson.

"Educational Exhibits at the World's Industrial and Cotton Exposition, N. O." 1886.

Circular of Information. Nos. 2, 3, 4, 5. 1885-86.

BOARD OF INDIAN COMMISSIONERS.

Seventeenth Annual Report. 1885.

BUREAU OF ETHNOLOGY.

Third Annual Report. 1883-84.

DEPARTMENT OF AGRICULTURE, Washington, D. C.

Annual Report of the Commissioner. 1885.

First and Second Annual Report Bureau of Animal Industry. 1884, 1885.

Fourth Report U. S. Entomological Commission. 1885.

Insects affecting the Orange.—Hubbard.

DEPARTMENT OF MAMMALS.

FRANK A. BUTLER, New York City.

3 Red Foxes, living.

Mr. COMSTOCK, New York City.

1 red Irish Setter.

DEPARTMENT OF PUBLIC PARKS, New York City, through Mr. W.

A. Conklin, Superintendent Central Park Menagerie.

2 young Deer, 2 Monkeys, 1 young Panther, 1 Paradoxure, 1 Coati-mundi, 1 Beech Marten, 1 Grison, 2 young Tigers; all from the Central Park Menagerie.

DR. G. FURMAN, New York City.

1 Italian Greyhound.

WILLIAM GORDON, New York City.

1 black Gordon Setter.

H. H. HELME, Miller's Place, Long Island, N. Y.

3 Field Mice, skins, from Washington Territory.

DR. E. A. MEARNS, U. S. A., Fort Verde, Arizona.

4 Beavers, 5 Arizona Squirrels, 7 Ground Squirrels (2 species), 6 Wood Mice (3 species), 4 Pouched Rats (2 species), 4 Civet Cats, 3 Striped Skunks, 6 Spotted Lynxes, 1 Muskrat, 2 common Skunks, 3 White-backed Skunks, 1 Raccoon, 3 Mountain Lions, 2 Antelope Heads, 8 Deer Heads; all from Arizona.

COL. N. PIKE, Brooklyn, N. Y.

7 Mice and Moles, in alcohol, and skins of an Opossum and Raccoon; all from Long Island.

THOMAS RODMAN and GEORGE RYAN, New York City.
6 Moles, from Central Park, New York City.

SLOVER & TYLER, 47 South Street, New York City.
1 skull of Hippopotamus.

HERBERT H. SMITH, Brooklyn, N. Y.
1 skull of Lynx, from Northern New York.

E. S. SOUTHWICK, New York City.
2 Moles, from Central Park, New York City.

E. E. THOMPSON, Toronto, Canada.
1 Muskrat.

ANTHONY WOODWARD, New York City.
4 Red Squirrels.

DEPARTMENT OF BIRDS.

H. B. BAILEY, South Orange.
16 skins of North American Birds.
47 nests and 215 eggs of North American Birds.

HERBERT BROWN, Tucson, Arizona.
8 skins of Birds from Arizona.
4 living Scaled Partridges.

MRS. CHARLES CAROW, New York City.
54 mounted birds and 110 skins, mostly North American.

F. M. CARYL, Franklin, N. J.
3 skins, from New Jersey.

DEPARTMENT OF PUBLIC PARKS, New York City, through Mr. W.
A. Conklin, Superintendent Central Park Menagerie.
3 Brown Pelicans, 3 young Black Swans, 1 European White Swan, 1
Stork, 1 Demoiselle Crane, 1 Great Blue Heron, 1 Pea Fowl,
1 Collared Parakeet, 1 Indian Parakeet, 1 Gray Parrot, 1 Toucan;
from the Central Park Menagerie.

BASIL DUTCHER, New York City.
Nests and eggs of the Sharp-tailed and Seaside Sparrows.

D. G. ELLIOT, New York City.
34 skins of South American Birds, mostly Humming Birds.
5 skeletons of Pheasants.

COL. N. S. GOSS, Topeka, Kansas.
1 Snowy Plover.

A. H. HELME, Miller's Place, Long Island.
5 skins, from Long Island.

ROBERT B. LAWRENCE, New York City.
1 Hybrid Duck, mounted.

ROBERT O. MORRIS, Springfield, Mass.
1 Florida Gallinule, Springfield, Mass.

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.
30 skins of Terns and Ducks.

MRS. N. PIKE, Brooklyn, N. Y.
1 Australian Parakeet.
1 Australian Goatsucker.

F. S. PITT, Stamford, Conn.
1 Albino Swallow.

JENNESS RICHARDSON, New York City.

3 Mourning Doves, from Florida.

WILLIAM WALLACE, New York City.

1 Kingbird and nest.

GEOLOGICAL DEPARTMENT.

H. BOOTH, Poughkeepsie, N. Y.

2 specimens of the Crinoid *Ichthyocrinus corbis*.

IRVIN B. TIEDMAN, Charleston, S. C.

Anterior end of the Upper Jaw of a Cetacean from Phosphate Beds on the Wando River, S. C.

JOHN WILSON, New York.

Several specimens of the Shell *Inoceramus Barabini* from the Cretaceous of Colorado Springs, Col.

SPENCER G. PERCIVAL, Bristol, England.

Miscellaneous collection of Fossil Shells; all European.

J. S. McLAURY, Yonkers, New York.

1 specimen of Stromatopora, Onandaga Co., N. Y.

JNO. EYERMAN, Easton, Pa.

13 Slabs of Triassic Sandstone with reptilian tracks, and two showing ripple markings and fucoidal casts, etc., from Blue Stone Quarry, Milford, Henderson Co., N. Y.

O. A. CRANDALL, Sedalia, Mo.

8 specimens of *Conastychus*, Fort Smith, Ark.

7 Fossil Shells from Coal Measures, Plattsburg, Mo.

5 " " Lower Carboniferous, Springfield, Mo.

1 Favosite Coral (drift).

J. F. TONKS, N. Y.

Specimens of Plants (fucoids) from Catskill, Red-Beds, near Delhi, N. Y.

MISS F. M. HITCHCOCK, N. Y.

A block of Utica Slate, with Fossil Sponges, from Holland Patent, N. Y.

PROF. J. J. STEVENSON, N. Y.

10 species of Miocene Fossils, from Yorktown, Va.

PROFS. BRAINERD, SEELY, BOYCE, and KELLOGG, of Middlebury College, Middlebury, Vt., through Prof. H. M. Seely.

Fort Cassin and Isle La Motte Fossils (Birdseye and Chazy Limestones). Over 200 specimens.

MINERALOGICAL DEPARTMENT.

A. FORBES, Brooklyn, L. I.

1 specimen of Serpentine, Hoboken, N. J.

GAUTIER'S BLACK LEAD CRUCIBLE CO., Jersey City, N. J.

One large, very handsome specimen of Graphite (480 lbs.), from Ceylon, India.

PHOENIX PLASTER MILLS, W. 13th St., N. Y.

Five specimens of Gypsum, including cut and rubbed blocks of Alabaster, from Nova Scotia.

- JNO. CAMPBELL, New York City.
One specimen of Pyrite, from Scranton, N. Y.
- F. A. CALKINS, New York City.
Lignite saturated with copper. Arizona.
Silver Ore. Nevada.
Gold Ore. Eureka Dist., Nevada.
Galenite, Silver Sulphuret and Gossan. Mexico.
- PROF. R. P. WHITFIELD, New York City.
One Piece of Gray Calcite, Lake Champlain.
- H. BOOTH, Poughkeepsie, N. Y.
Chalcanthite from Clifton, Arizona.
- MRS. R. L. STUART, New York City.
Large and handsome specimen of Stibnite, from Japan.
One large group of gold crystals on quartz, from Eldorado Co., Cal.
- MRS. CHAS. CAROW, New York City.
Specimens of Pyromorphite, Cerussite, Anglesite, Wulfenite, Baryte,
from Phoenixville, Pa.
- SPENCER G. PERCIVAL, Bristol, England.
Miscellaneous collection of Minerals ; all European.
- J. S. McLAURY, Yonkers, N. Y.
Septaria, from Onondaga Co., N. Y.
Gypsum " " " " " "
- ERASTUS WETMORE, New York City.
Three pieces of Magnetite.
- G. B. SENNETT, New York City.
5 specimens of Magnetite, from Montgomery Co., N. C.
- GREEN SERPENTINE MARBLE CO., Md., through R. McMichael,
General Agent.
2 polished specimens of Serpentine, large and handsome.
- W. W. JEFFERIS, Chester Co., Pa.
65 specimens, comprising Limonite, Pyrite, Heulandite, Chabazite,
Diaspore, Smithsonite, Sphalerite, Oligoclase, Orthoclase.
- D. HAMILTON, New York City.
6 specimens of Cornwall Tin.
1 " of Wolframite, Cornwall, England.
- DR. A. E. FOOTE, Philadelphia, Pa.
Large group of pink Calcite Crystals.

CONCHOLOGICAL DEPARTMENT.

- MRS. CHAS. CAROW, New York City.
About 50 specimens of Marine and Land Shells.
- WALDEMAR KELCH, New York City.
A small collection of Cleaned and Varnished Shells.

ETHNOLOGICAL DEPARTMENT.

- DEPARTMENT OF PUBLIC PARKS, through Mr. Wm. A. Conklin.
1 Esquimaux Skin Canoe.
1 Birch Bark Canoe.

ECONOMIC DEPARTMENT.

SAMUEL L. M. BARLOW, New York City.

70 specimens of Woods from the west coast of Mexico.

DEPARTMENT OF INVERTEBRATE ZOOLOGY.

Six examples of disarticulated crustaceans, and one of fish. Presented by Messrs. Thomas Higgins and F. B. Thurber, namely :

Lobster (*Homarus americanus*).Stone Crab (*Lithodes*).Arctic Spider Crab (*Lithodes arctica*).Spiny Lobster (*Palinurus*).Armless Lobster (*Scyllarus*).Horse-foot Crab (*Limulus*).

Cranium of Cod-fish.

EXCHANGES.

LIBRARY.

A. W. VOGDES, New York City.

Report. First and Second Meetings British Association.

First Annual Report Geology of the State of Vermont.—C. B. Adams.

Second Biennial Report on the Geology of Alabama.—M. Tuomey.

A. WOODWARD, New York City.

"Ueber den Bau von Schale und Schädel bei lebenden und fossilen schildkröten, etc."—Rütimeyer.

Palæontologie-spuren des Menschen aus interglaciären Ablagerungen in der Schweiz.—Rütimeyer.

Mittheilungen aus der herpetogischen sammulung des Basler Museums.—Müller.

Zoologie Einige weitere Beiträge über das zahme Schwein und das Hausrind.—Rütimeyer.

Second Contribution to a knowledge of the Miocene Fauna of Oregon. By E. D. Cope.

Catalogue of the Publications of the Essex Institute.

Notes on the Genera of Gasteropod Mollusca from the Carboniferous Limestone of Central and Western Coal Fields of Scotland.—Young.

On the Discovery of Arctic Shells at High Levels in Scotland.—Richardson.

Further Notice of the Tigh-na-erich Shell-Bed, Loch Tynne, Argyllshire.—Macadam.

Catalog IX Mammalia, Aves, Reptilia, Pisces, Insecta. Museum.—Godeffroy.

Proceedings of the Scientific Association of Trinidad. Part VI. and VII. 1869.

Nassa Semistriata N-costulata del Broechi. By F. Coppi.

Nota di Contribuzione alla Flora Pliocenica Modense. By F. Coppi.

Osservazioni Palæontologiche e Nuove Specie. By F. Coppi.

Note sur les Restes de Tortues Fossiles. By Jaccard.

The Structure and Relations of Dinichthys, etc.—Newberry.

Nota sul Calcare a Lucina Pomum, Dod. By F. Coppi.

Jahresheft des Naturwissenschaftlichen Vereins für das Fürstenthum Lüneburg. II. 1886.

Weitere prähistorische Funde bei Lesina. By G. Buccich.

- A. C. AUSTIN, Kansas City, Kan.
Transactions. Vol. VII. Kansas Academy of Science.
DEPARTMENT OF THE INTERIOR, Washington, D. C.
Patent Office Reports. 1849, '50, '51, '52. Agriculture.
Patent Office Report. 1862. Arts and Manufactures.
Smithsonian Report. 1854.

DEPARTMENT OF BIRDS.

- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
210 specimens, 107 species, skins, mostly North American.
C. B. CORY, Boston, Mass.
15 specimens, 9 species, skins, of West Indian Birds.
A. G. PAINE, JR., New York City.
1 mounted Arctic Horned Owl.

GEOLOGICAL DEPARTMENT.

- WASHINGTON UNIVERSITY, St. Louis, Mo.
36 specimens of Fossils from the Niagara and Chester groups, Coal Measures and the Cretaceous.

MINERALOGICAL DEPARTMENT.

- WASHINGTON UNIVERSITY, St. Louis, Mo.
38 specimens of Linnæite, with Asbolite.
DR. A. JULIEN.
8 specimens of Pyrite with associated minerals from Arizona and Pa.
1 specimen of Pyrrhotite. New Jersey.
O. A. CRANDALL, Sedalia, Mo.
19 specimens of Sphalerite, Pyrite, Calamine, from Missouri.

PURCHASES.

LIBRARY.

- Report of the Challenger. Vol. XII. Zoology.
" " Vol. XIII. "
" " Vol. XIV. "
Third Appendix. Fifth Edition of Dana's Mineralogy.—Dana.
Catalogue of the Asiatic Chiroptera.—Dobson.
The Naturalists' Directory, 1886.—Cassino.
Trow's New York City Directory. 1886.
Metropolitan Directory. 1887.
Biologia Centrali-Americana. Nos. 11-52.—Godman & Salvin.
American Naturalist. 1886.
Science. 1886.
The Auk. 1886.
The Ibis. 1886.
The Zoologist, 1886.
Annals and Magazine of Natural History. 1886.
Nature. 1886.
Neues Jahrbuch Mineralogie, Geologie und Palæontologie. 1886.
Palæontological and Geological Library of Prof R. P. Whitfield. 883
Volumes, 912 Pamphlets.

DEPARTMENT OF MAMMALS.

30 mounted North American Mammals ; 15 mounted Monkeys ; 2 Kangaroos, 1 Capybara, 1 Yak, 1 Indian Rhinoceros, 1 Elephant's Head, purchased in the flesh ; 2 skins of Bendire's Shrew (*Atophyrax bendirei*), 1 Shrew and 2 Mice from Washington Territory ; a small collection of skins, skulls, and specimens in alcohol, from Arizona.

DEPARTMENT OF BIRDS.

132 mounted North American Birds ; 2,500 skins, from Arizona ; 30 South American Hummingbirds ; 224 skins, from various North American localities ; 1 Cory's Shearwater ; 1 Guan ; 1 Gorget Paradise Bird ; 2 Masked Bob-whites ; 320 nests and eggs, from Arizona.

MINERALOGICAL DEPARTMENT.

Amethyst Crystals on Silicified Wood. Chalcedony Park, Arizona.
 Amethyst Crystals. Lake Superior, Mich.
 Malachite and Azurite. Clifton, Arizona.
 Cerussite. Cochise Co., Arizona.
 Adamite (?) Greece.
 Cuprite on Limonite. Bisbee Arizona.
 Geocrinite. Pima Co., Arizona.
 Section Jasperized Wood. Chalcedony Park, Arizona.
 2 Garnets. Salides Co., Colorado.
 1 Fluorite. Alston Moor, England.
 1 large group of Gold Crystals. El Dorado Co., Col.
 1 " " " " " "
 1 small " " " " "
 1 group of Crystals with leaf Gold " "
 1 " leaf Gold. El Dorado Co., Colorado.
 Gold Veins in Quartz Pebble. El Dorado Co., Col.
 1 nugget of Gold. Gravel Mine, Oregon.
 1 specimen of Moss Gold. Oregon.
 1 " of Silver (wire in calcite.) Chihuahua, Mex.
 1 " of Silver. Chihuahua, Mex.
 1 " Crystallized reticulated Silver. Chihuahua, Mex.
 1 " Crystallized Silver in Quartz. Arizona.
 1 " Crystallized Silver in Quartz (cut). Arizona.
 1 " large Orthoclase Crystals (Microcline) with Albite. Pike's Peak, Col.
 1 group of Orthoclase Crystal (Microcline) with Albite. Pike's Peak, Col.
 1 group of Rhodonite Crystals. Franklin, N. J.
 1 Calcite Crystal with Sphalerite. Jasper Co., Mo.
 2 large groups of Marcasite. Jasper Co., Mo.
 1 large sphere of curved chains of rhombohedral Calcite. Yellowstone Park, Montana.
 1 Topaz. Pike's Peak, Col.
 1 Astrophyllite. El Paso Co., Col.

DEPARTMENT OF FISHES AND REPTILES.

Two Boa Constrictors.
 Three Lizards.
 Collection of deep sea objects from Fish Commission.
 Casts of Fishes of North America—eighty-eight species.
 Casts of Reptiles of North America—fourteen species.

PATRONS.

By the Payment of One Thousand Dollars.

MORRIS K. JESUP.
 ROBERT L. STUART.*
 MISS C. L. WOLFE.*
 ROBERT COLGATE.*
 FREDERIC W. STEVENS.
 PERCY R. PYNE.
 JAMES M. CONSTABLE.
 JOHN B. TREVOR.
 ADRIAN ISELIN.
 HUGH AUCHINCLOSS.
 JOSEPH W. DREXEL.
 WILLIAM E. DODGE, JR.
 JOHN D. WOLFE.*
 ABRAM S. HEWITT.
 C. VANDERBILT.
 J. PIERPONT MORGAN.
 CHARLES LANIER.
 D. JACKSON STEWARD.
 EDWARD CLARK.*
 A. G. PHELPS DODGE.
 JAMES BROWN.*
 A. T. STEWART.*
 S. WHITNEY PHOENIX.*
 BENJAMIN H. FIELD.
 WILLIAM T. BLODGETT.*
 OLIVER HARRIMAN.
 ROBERT BONNER.
 JAMES B. COLGATE.
 ALEXANDER STUART.*
 WILLIAM A. HAINES.*
 BENJAMIN AYMAR.*
 RICHARD ARNOLD.*
 JOSEPH H. CHOATE.
 JONATHAN THORNE.*

D. O. MILLS.
 JOHN A. C. GRAY.
 HEBER R. BISHOP.
 CHAS. G. LANDON.
 WILLIAM E. DODGE.*
 PETER COOPER.*
 WILLIAM H. ASPINWALL.*
 B. H. HUTTON.*
 J. TAYLOR JOHNSTON.
 D. N. BARNEY.*
 I. N. PHELPS.
 JAMES STOKES.*
 D. WILLIS JAMES.
 EDWARD MATTHEWS.
 WILLIAM T. GARNER.*
 JAMES LENOX.*
 A. H. BARNEY.
 COLEMAN T. ROBINSON.*
 BENJAMIN B. SHERMAN.*
 JAMES R. ELY.
 JONAS G. CLARK.
 JOHN ANDERSON.*
 JOHN JACOB ASTOR.
 CATHERINE L. SPENCER.*
 JAS. GORDON BENNETT.
 CYRUS W. FIELD.
 ALEX. H. BROWN, M.P.
 J. A. BOSTWICK.
 FREDERICK BILLINGS.
 MRS. R. L. STUART.
 JESSE SELIGMAN.
 HON. THEODORE ROOSEVELT.
 OSWALD OTTENDORFER.
 J. HAMPDEN ROBB.

J. F. LAUBAT.

* Deceased.

FELLOWS.

By the Payment of Five Hundred Dollars.

SAMUEL WILLETTTS.*
 ROBERT GORDON.
 HOWARD POTTER.
 C. V. S. ROOSEVELT.*
 CHARLES W. GRISWOLD.*
 SAMUEL F. B. MORSE.*
 RUTHERFORD STUYVESANT.
 MEREDITH HOWLAND.
 MARSHALL O. ROBERTS.*
 JOHN ALSTYNE.*
 O. B. POTTER.
 HON. LEVI P. MORTON.
 HANSON K. CORNING.*
 STEWART BROWN.*
 ABRAM DUBOIS.
 TIFFANY & CO.
 LUCIUS TUCKERMAN.
 ALFRED B. DARLING.

A. A. LOW.
 RICHARD MORTIMER, JR.
 THOS. A. VYSE, JR.
 GEORGE G. GRAY.*
 GOUVERNEUR KEMBLE.*
 SAMUEL HAWK.*
 JOHN SNEDEN.*
 GEORGE BLISS.
 R. A. WITTHAUS, M.D.
 THOMAS BARRON.*
 GEORGE W. CASS.
 H. M. SCHIEFFELIN.
 FREDERICK A. LIBBEY.
 ROBERT LENNOX KENNEDY.
 F. R. HALSEY.
 CYRUS W. FIELD, JR.
 H. M. FLAGLER.
 D. B. IVISON.

* Deceased.

LIFE MEMBERS.

By the Payment of One Hundred Dollars.

WILLIAM M. HALSTED.
 JOHN P. HAINES.
 W. A. HAINES, JR.
 RICHARD T. HAINES.
 HENRY PARISH.
 HENRY I. BARBEY.
 ROBERT B. MINTURN.
 HENRY CHAUNCEY.
 JAMES M. BROWN.
 S. C. WILLIAMS.
 JAMES W. PINCHOT.
 ALFRED M. HOYT.
 HENRY F. SPAULDING.
 STEPHEN R. LESHER.
 EDWARD LUCKEMEYER.

EFFINGHAM TOWNSEND.
 ANDREW H. GREEN.
 WILSON G. HUNT.
 CONSTANCE B. ANDREWS.
 FORDYCE BARKER, M.D.
 GEORGE E. BELCHER, M.D.
 HON. ADDISON BROWN.
 JOHN B. CORNELL.
 A. DALRYMPLE.
 WM. BUTLER DUNCAN.
 JAMES FRASER.
 WILLIAM H. GEBHARD.
 JOHN A. HADDEN.
 BENJAMIN HART.
 C. P. HUNTINGTON.

CHAS. H. KALBFLEISCH.
 WILLIAM C. MARTIN.
 JOHN T. METCALF, M.D.
 WILLIAM I. PEAKE.
 ALFRED PELL.
 ISAAC H. REED.
 S. N. SOLOMON.
 SAMUEL B. SCHIEFFELIN.
 JOHN H. SHERWOOD.
 HENRY MILFORD SMITH.
 ALEX. H. STEVENS.
 HENRY M. TABER.
 FRED. F. THOMPSON.
 WM. M. KINGSLAND.
 JAMES LOW.
 ROWLAND G. MITCHELL, JR.
 ROBERT G. REMSEN.
 PROF. A. E. FOOTE.
 JAMES KNIGHT, M.D.
 E. OELBERMANN.
 R. G. DUN.
 A. JACOBI, M.D.
 JOHN PONDIR.
 ALEX. HADDEN, M.D.
 MISS E. S. HAINES.
 MRS. W. A. HAINES.
 JAS. MUHLENBERG BAILEY.
 GIFFORD PINCHOT.
 B. G. ARNOLD.
 CHAS. M. D'ACOSTA.
 A. A. RAVEN.
 H. D. VAN NOSTRAND.
 GEORGE RICHARDS.
 JOHN FITCH.
 MRS. B. L. ANDREWS.
 MANDEVILLE MOWER.
 JAS. O. SHELDON.
 EDWARD COLGATE.
 WASHINGTON E. CONNOR.
 ANDREW E. DOUGLASS.
 H. G. MARQUAND.
 PETER MARIE.
 JACOB HAYS.
 ED. KIRK WILLARD.
 E. J. DONNELL.
 ISIDOR STRAUS.

JACOB H. SCHIFF.
 EDWARD WINSLOW.
 W. D. NICHOLS.
 JAMES TERRY.
 W. B. NEFFTEL, M.D.
 MISS E. AYMAR.
 BENJAMIN WELLES.
 H. VICTOR NEWCOMB.
 GEORGE KEMP.
 C. W. CHAPIN, JR.
 MRS. H. HERRMAN.
 J. H. DEMOTT.
 CHAS. P. BRITTON.
 C. AMORY STEVENS.
 E. A. MOEN.
 HENRY B. PLANT.
 HON. EDWARD COOPER.
 SETH BARTON FRENCH.
 S. DEJONGE.
 A. C. KINGSLAND.
 GEO. F. KUNZ.
 GEORGE GARR.
 DAVID BANKS.
 HENRY CLEWS.
 MRS. JAMES C. AYER.
 CHAS. M. CAULDWELL, M.D.
 HON. BENJAMIN A. WILLIS.
 ALBERT MATHEWS.
 FRANK G. BROWN.
 CHARLES MORAN.
 JOSEPH LAROCQUE.
 FRANCIS P. FREEMAN.
 LOUIS STERN.
 LOOMIS L. WHITE.
 FREDERICK B. WENDT.
 ANSON PHELPS STOKES.
 DR. HENRY F. WALKER.
 SAMUEL P. AVERY.
 BENJAMIN BREWSTER.
 ISAAC P. CHAMBERS.
 JOHN N. A. GRISWOLD.
 HARVEY S. LADEW.
 JOHN WOLFE.
 D. B. IVISON.
 A. O. OSBORN.
 MRS. A. O. OSBORN.

W. H. BEADLESTON.
 Miss OLIVIA E. P. STOKES.
 CHANDLER ROBBINS.
 Mrs. ALEX. CAMERON.
 Mrs. JOHN J. WYSONG.
 ELLIOTT F. SHEPARD.
 I. H. SHOENBERGER.

ARCHIBALD ROGERS.
 HERMAN C. VON POST.
 C. M. BELL, M.D.
 GODFREY MANNHEIMER.
 HENRY A. V. POST.
 HENRI M. BRAEM.
 JULIUS WADSWORTH.

AUGUSTE RICHARDS.

ANNUAL MEMBERS.

By the Payment of Ten Dollars Yearly.

Abbott, Frank, M.D.	Barnes, Theo. M.	Brown, J. Crosby
Agnew, Alex. McL.	Barney, Chas. T.	Brown, Geo. H.
Agnew, C. R., M.D.	Barron, John C., M.D.	Bruce, Col. S. D.
Agnew, Hon. John T.	Bates, L. M.	Bryce, William
Aitken, John W.	Beadleston, E.	Buckham, George
Aldrich, Mrs. H. D.	Beebe, Chas. E.	Burden, James A.
Alexander, Henry M.	Belknap, Mrs. A. B.	Burkhalter, S.
Alexander, Jas. W.	Bell, Hon. Isaac	Burrill, John E.
Allen, Dr. T. F.	Bend, George H.	Butler, Charles
Amend, Bernard G.	Benjamin, John	Butler, Prescott Hall
Amsinck, Gustav	Bergh, Henry	Butler, Wm. Allen
Amy, H.	Bernheimer, Adolph	Byrd, George H.
Anderson, E. Ellery	Bernheimer, Isaac	Cadwalader, John L.
Anderson, H. H.	Bianchi, F.	Cahn, Leopold
Anthony, E.	Bien, Julius	Cammann, H. H.
Appleton, Daniel	Billings, O. P. C.	Camp, W. A.
Appleton, D. S.	Bissinger, Philip	Carter, Robert
Appleton, Wm. H.	Blackford, Eugene G.	Cary, Alanson
Appleton, W. W.	Blagden, George	Cathcart, George R.
Archbold, John D.	Blakeman, Birdseye	Chapin, H. J.
Armour, H. O.	Blanchard, G. R.	Charlier, Elié
Arnold, John H. V.	Bliss, C. N.	Cheever, John H.
Astor, John Jacob	Bliss, George	Chesebrough, Robert A.
Atterbury, J. T.	Bliss, George T.	Child, H. C.
Auchincloss, Hugh	Bliss, William	Chittenden, Hon. S. B.
Auchincloss, Mrs. E.	Bloodgood, John H.	Clark, George C.
Auchincloss, E. S.	Bonn, William B.	Clarkson, Frederick
Auchmuty, R. T.	Booss, Frederick	Coffin, Chas. H.
Babcock, S. D.	Borg, Simon	Coffin, Edmund, Jr.
Bailey, N. P.	Boulton, Wm. G.	Colbron, W. Townsend
Baldwin, C. C.	Bouvier, John V.	Coles, Mrs. W. F.
Baldwin, J. G., M.D.	Bouvier, M. C.	Colgate, Abner W.
Baldwin, O. D.	Bowdoin, G. S.	Colgate, Mrs. Bowles
Baltzer, H. R.	Braker, Conrad, Jr.	Colgate, Miss Georgiana
Bange, L. Bolton, M.D.	Brandon, Edward	Colgate, Robert, Jr.
Banyer, Goldsborough	Breslin, J. H.	Colgate, R. R.
Barker, Fordyce, M.D.	Bristow, Hon. B. H.	Colgate, Samuel
Barker, Stephen	Brockway, A. N., M.D.	Colgate, Mrs. Samuel
Barlow, S. L. M.	Brookfield, Wm.	Colgate, Samuel J.
Barnard, Horace	Brown, Miss E. W.	Collins, Benjamin
Barnes, John S.	Brown, Mrs. James M.	Collins, Miss Ellen

- Compton, A. T.
 Comstock, M. Louise
 Constable, Frederick A.
 Constable, James M.
 Constantine, A. J.
 Contoit, Chas. H.
 Cook, John C.
 Cooper, Geo. C.
 Corning, E. L.
 Cossitt, F. H.
 Cotheal, Alex. I.
 Cotting, Amos
 Crawford, R. L.
 Crerar, John
 Crimmins, Hon. J. D.
 Crocker, George Aug.
 Crolius, Clarkson
 Crosby, Rev. Howard
 Cruger, S. V. R.
 Cullum, Geo. W.
 Currie, John H.
 Curtiss, Frank
 Cutting, R. Fulton
 Cutting, Robert L.
 Cutting, W. Bayard
 Daly, Hon. Chas. P.
 Davies, W. G.
 Davis, Theodore M.
 Davison, C. A.
 Day, Henry
 Day, Henry M.
 Day, Rev. Henry S.
 Decker, Joseph S.
 de Forest, Mrs. Geo. B.
 de Forest, W. H.
 De Grauw, Walter N.
 de Rham, Charles
 De Ruyter, John D.
 Delafield, Maturin L.
 Delamater, Cornelius H.
 Demarest, A. T.
 Dickie, E. P.
 Dickey, Charles D.
 Dickey, Hugh T.
 Dillon, Hon. John F.
 Dimock, A. W.
 Dimock, Henry F.
 Dix, Rev. Morgan, D.D.
 Dodge, Cleve H.
 Dodge, Miss Grace H.
 Dodge, Miss Mary M.
 Dodge, Mrs. Wm. E., Jr.
 Dodge, George E.
 Dodworth, Allen
 Dougherty, A.
 Dowd, Hon. Wm.
 Dows, David
 Draper, Frank E.
 Draper, Dr. W. H.
 Du Bois, Katharine
 Du Bois, William A.
 Du Bois, Dr. Matthew B.
 Duncan, John P.
 Dunham, G. H.
 Dunlap, Robert
 Earle, Wm. P.
 Ehret, George
 Eidlitz, Leopold
 Eidlitz, Marc
 Einstein, David L.
 Elkins, Stephen B.
 Elliott, John
 Ellis, John W.
 Elsworth, E.
 Ely, Richard S.
 Eno, Amos F.
 Eno, Amos R.
 Fahnestock, H. C.
 Fargo, James C.
 Farnham, Mrs. Horace P.
 Fellows, Richard C.
 Ferguson, Edward
 Fish, Hon. Hamilton
 Fiske, Josiah M.
 Fleet, Oliver S.
 Fletcher, Andrew
 Foote, C. B.
 Ford, John R.
 Fosdick, Chas. B.
 Foster, Scott
 Foulke, Thomas
 Fraser, George S.
 Froment, Frank L.
 Frost, Isaac T.
 Fry, Charles M.
 Gardner, John H.
 Gautier, J. H.
 Georger, Louis F.
 Gibbs, Theodore K.
 Gilbert, Clinton
 Goadby, James H.
 Goadby, Thomas
 Goddard, F. N.
 Goddard, J. W.
 Godwin, Parke
 Goldenberg, Simon
 Goodridge, F.
 Goodwin, James J.
 Gordon, George
 Gossler, G. H.
 Gotthold, Fred.
 Grace, Hon. W. R.
 Gracie, J. K.
 Graham, Malcolm
 Greenwood, Isaac J.
 Gregory, Chas. E.
 Griffin, Chas. Francis
 Griffiths, John
 Griswold, Chester
 Groesbeck, D.
 Gunning, Thos. B., M.D.
 Gunther, F. Frederick
 Gunther, Wm. Henry
 Gurnee, W. S.
 Hague, James D.
 Hahlo, Hermann
 Haight, Henry J.
 Hall, John H.
 Hall, John T.
 Hall, Thomas D.
 Halsted, Jacob
 Halsted, Robert
 Hammerslough, Samuel
 Hammond, E. A.
 Haneman, John T.
 Harbeck, Mrs. Eliza D.
 Hargous, L. S.
 Hart, Rev. A. B.
 Hartley, Marcellus
 Havemeyer, F. C.
 Havemeyer, Hector C.
 Havemeyer, Theo. A.
 Haven, G. G.
 Havens, Chas. G.
 Hawley, Henry E.
 Hendricks, Edmund
 Hendricks, Joshua
 Herriman, John
 Higginson, James J.
 Hildburgh, Henry
 Hill, Edward
 Hill, Geo. H. B.
 Hillhouse, Hon. Thomas
 Hinman, W. K.
 Hinton, J. H., M.D.
 Hitchcock, Hiram
 Hitchcock, Dr. R. D.
 Hitchcock, Miss S. M.
 Hoadley, Russell H.
 Hoag, T. Daniel
 Hodgman, Geo. F.
 Hoffman, George
 Hogg, Egerton
 Holden, E. R.
 Holt, Charles L.
 Holt, Henry
 Holt, R. S.
 Hone, Robert S.
 Horton, Burrett W.
 Houget, Henry L.
 Houghton, Rev. G. H.
 Hoyt, Reuben
 Hubbard, Frederick
 Hubbard, Gen. T. H.

- Hunt, Samuel I.
 Hunter, Mrs. M. L.
 Huntington, Geo. S., M.D.
 Hyde, Albert G.
 Hyde, Samuel T.
 Inman, John H.
 Ireland, John B.
 Irvin, Richard
 Iselin, Adrian, Jr.
 Iselin, Mrs. Adrian
 Iselin, Oliver
 Iselin, Wm. E.
 Isham, W. B.
 Jackson, Wm. H.
 Jackson, W. H., M.D.
 Jaffray, E. S.
 Jaffrey, Robert
 Jenkins, Wm. L.
 Jesup, Jas. R., Jr.
 Jones, George
 Jones, Joshua
 Juilliard, A. D.
 Kaufman, B.
 Kellogg, Charles
 Kelly, Eugene
 Kemp, Edward
 Kemp, John H.
 Kennedy, John S.
 Keppler, Rudolph
 Kerbs, Adolph
 Kerner, Charles H.
 Ketchum, A. P.
 Kinnicutt, Dr. Francis P.
 Knapp, H., M.D.
 Knox, Alexander
 Kones, Theo.
 Kraus, William
 Kuhne, Frederick
 Kuttroff, Adolf
 Lambert, Ed. W., M.D.
 Lane, P. Van Zandt
 Langdon, Woodbury G.
 Larremore, Hon. R. L.
 Lawrence, George N.
 Lawrence, Mrs. Samuel
 Lawton, Walter E.
 Leale, Charles A., M.D.
 Leavitt, Henry S.
 Lee, William H.
 Lefferts, Frederick R.
 Lehman, E.
 Lehman, M.
 Leshar, Stephen R.
 Lewis, Charlton T.
 Liautard, A.F., M.D.
 Linde, Frederick C.
 Little, Robbins
 Livingston, Edward
 Livingston, Robert E.
 Livingston, Robert J.
 Livingston, William S.
 Livingston, Wm. S., Jr.
 Lockwood, Le Grand
 Loeb, S.
 Lord, D. D.
 Lorillard, L. L.
 Lounsbery, R. P.
 Low, C. Adolphe
 Lowry, John
 Ludington, C. H.
 Lummis, Wm.
 Lusk, William T., M.D.
 Lyon, Albert J.
 Lyon, Hon. Wm. J.
 Mack, J. W.
 Macy, Charles A., Jr.
 Macy, William H.
 MacLay, Robert
 Mahany, David
 Maitland, Robert L.
 Mali, Charles
 Man, Albon P.
 Manwaring, David W.
 Markoe, Dr. Thos. M.
 Marsh, Caleb P.
 Martin, Bradley
 Martin, William C.
 Matthiessen, F. O.
 McAlpin, D. H.
 McCall, Jas. N.
 McComb, J. J.
 McCoskry, Mrs. C. M.
 McCready, N. L.
 McCurdy, Richard A.
 McKibbin, George
 Merritt, Douglas
 Metcalf, John T., M.D.
 Meyer, C.
 Meyer, Oscar R.
 Meyer, Thomas
 Milhau, Gen. J. J., M.D.
 Miller, D. S.
 Minturn, Mrs. A. M.
 Mitchell, Mrs. S. L.
 Mitchell, H. W., M.D.
 Moir, James
 Moller, Peter, Jr.
 Moore, Henderson
 Moore, W. H. H.
 Morgan, Geo. D.
 Morgan, Mrs. P. A.
 Morgan, Rev. Wm. F.
 Morris, Henry Lewis
 Morrison, Edward
 Morrison, George A.
 Mortimer, W. Y.
 Moulton, Arthur J.
 Moulton, Gilman S.
 Mowry, A. L.
 Munoz, J. M.
 Munro, George
 Murphy, Henry M.
 Navarro, Juan N.
 Newman, A. G.
 Noyes, Wm. C.
 O'Connor, Thomas H.
 O'Donoghue, Joseph J.
 Olcott, F. P.
 Olmstead, Dwight H.
 Olyphant, R. M.
 Olyphant, Robert
 Osgood, S. R., Mrs.
 Otis, F. N., M.D.
 Ottendorfer, Oswald
 Owen, Mrs. Thomas J.
 Owens, Wm. W.
 Park, Joseph
 Parsons, John E.
 Parsons, Wm. H., Jr.
 Patterson, Edward
 Patterson, Thomas C.
 Peabody, Arthur J.
 Pell, John H.
 Pellew, Henry E.
 Penfold, Edmund
 Perkins, C. L.
 Peters, George A., M.D.
 Pettus, James T.
 Peyser, Frederick M.
 Phelps, William Walter
 Phoenix, Phillips
 Pierrepont, Edwards
 Pike, Col. Nicolas
 Pinkus, F. S.
 Platt, John R.
 Pool, Frank J.
 Potter, Howard
 Potts, Frederick A.
 Powell, Wilson M.
 Powers, William P.
 Prime, Frederick
 Purdy, Wm. Maeneven
 Ranger, Gustave
 Ranger, Louis
 Reynolds, C. T.
 Read, Daniel P.
 Remsen, William
 Rhoades, J. Harsen
 Riker, D. S.
 Riker, John L.
 Riker, Wm. J.
 Robbins, George A.
 Robbins, Howland
 Roberts, Miss Mary M.

- Roelker, Bernard
 Rogers, Columbus B.
 Rogers, Henry H.
 Rogers, John
 Rolston, R. G.
 Romaine, B. F.
 Rosenfeld, Isaac
 Rothschild, J.
 Rothschild, V. Henry
 Russell, Henry E.
 Rütten, August
 Rutter, Thomas
 Sabine, G. A., M.D.
 Sage, Russell
 Salisbury, Mrs. F. C.
 Sampson, Henry
 Sands, Andrew H.
 Sands, Samuel S.
 Satterlee, S. K.
 Saul, Julius
 Sayre, Lewis A., M.D.
 Schafer, Samuel M.
 Schafer, Simon
 Schaus, Wm.
 Scheitlin, Edward
 Schley, Dr. J. M.
 Scholle, Jacob
 Schuyler, George L.
 Schuyler, Philip
 Schuyler, S. D.
 Schwab, Gustav H.
 Schwendler, Fred.
 Scott, George S.
 Seligman, David J.
 Seligman, I. J.
 Seligman, Isaac N.
 Sennett, George B.
 Shethar, Samuel
 Simpson, John B.
 Sinclair, John
 Sistare, Geo. K.
 Skidmore, Mrs. Joseph R.
 Skidmore, William L.
 Slade, Francis H.
 Sloan, Hon. Samuel
 Sloane, Thomas C.
 Sloane, Wm. D.
 Smedberg, A.
 Smith, Alfred H.
 Smith, Charles S.
 Smith, Geo. W.
 Smith, John Jewell
 Smith, Jas. Rufus
 Smith, Roswell
 Smith, Rev. Cornelius B.
 Smith, William Alex.
 Soutter, Mrs. J. F.
 Spies, A. W.
 Spencer, Hon. James C.
 Starin, Hon. John H.
 Stearns, John Noble
 Stebbins, Jas. H.
 Steers, Edward P.
 Steers, Henry
 Stein, Abraham
 Stephens, Benjamin
 Stern, Benjamin
 Stern, Joseph
 Sterry, Geo. E.
 Stetson, Geo. W.
 Stewart, David
 Stewart, Mrs. Lispenard
 Stone, David M.
 Stone, Mason A.
 Storm, George
 Storm, Thomas
 Strahan, John H.
 Strong, George A.
 Strong, W. L.
 Sturgis, Appleton
 Sutherland, John
 Sutherland, John L.
 Swann, James
 Sykes, William
 Tailer, Edward N.
 Tailer, W. H.
 Taintor, Charles M.
 Talcott, James
 Talmadge, Henry
 Tappan, Thos. B.
 Taylor, Aug. C.
 Taylor, Mrs. Catharine A.
 Tefft, E. T.
 Tefft, Frank
 Tefft, Wm. E.
 Terbell, H. S.
 Terry, Rev. Roderick
 Thomas, T. G., M.D.
 Thompson, W. Prall
 Thomson, James
 Thorn, William K.
 Thorne, Samuel
 Thorp, Andrew S.
 Thurber, H. K.
 Tiemann, Peter C.
 Tillinghast, W. H.
 Titus, Erastus
 Tonnelé, John L.
 Toucey, J. M.
 Tousey, Sinclair
 Townsend, R. W.
 Tracy, J. Everts
 Trevor, H. G.
 Trevor, John B.
 Trevor, Mrs. John B.
 Tucker, John C.
 Twombly, H. McK.
 Ulmann, Joseph S.
 Ulmann, S. B.
 Van Brunt, Hon. C. H.
 Van Brunt, Cornelius
 Van Norden, Warner
 Van Renaselaer, K.
 Van Winkle, Miss E. S.
 Vermilye, J. D.
 Viele, Gen. Egbert L.
 Wales, Hon. Salem H.
 Wall, Michael W.
 Wallach, Antony
 Ward, Mrs. M. H.
 Watson, John
 Weatherbee, Mrs. E. H.
 Webb, W. H.
 Weekes, John A.
 Weeks, Francis H.
 Weisse, Faneuil D., M.D.
 Wells, Wm. Henry
 Wenman, Hon. James F.
 Westervelt, J. C.
 Wetherbee, Gardner
 Wheelock, Geo. G., M.D.
 Wheelock, Wm. A.
 Wheelock, Dr. W. E.
 White, Horace
 Whitely, James
 Whiting, F. H. N.
 Whitney, Alfred R.
 Whyland, A. E.
 Wiechers, W. A.
 Willets, J. T.
 Wilson, John
 Wing, Chas. T.
 Wing, John D.
 Winthrop, Robert
 Witherbee, S. H.
 Woerishoffer, Chas. F.
 Young, Jas. H.
 Young, Mason
 Zabriskie, Andrew C.

