

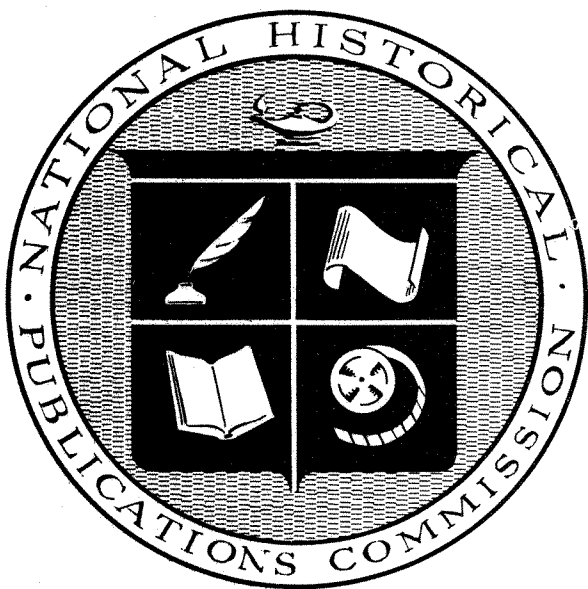
MINUTES AND CORRESPONDENCE
of the
ACADEMY OF NATURAL SCIENCES
of Philadelphia
1812-1924
MICROFILM PUBLICATION GUIDE

Special Publication 7
Academy of Natural Sciences
1967

GUIDE TO THE MICROFILM PUBLICATION
of the
MINUTES and CORRESPONDENCE of the
ACADEMY of NATURAL SCIENCES
of
PHILADELPHIA
1812-1924

Prepared by the Academy's Archivist,
Venia T. Phillips
Edited by Maurice E. Phillips

Special Publication No. 7
Academy of Natural Sciences
of Philadelphia
1967



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GENERAL INTRODUCTION

Ever since its foundation in 1812, a policy has been tacitly maintained by the Academy to preserve manuscript documents even after the information has been published. The secretaries, curators, librarians, councillors, committeemen, editors and other officers of the Academy had all cached such papers somewhere for posterity. These holdings were largely brought together by Edward J. Nolan for his history to celebrate the hundredth anniversary. He had hoped to have his long history published and presented as a memorial at that time. When funds were not available for printing, the "Short History" listed in the bibliography was used instead. The ms. text of the long history is still reposing in its bier in the library vault. The materials published here in microfilm form have always been locked away in the Academy's Hall and always remained in the technical custody of the librarian.

The minutes of the Academy's meetings used to be written up in a rough form, read at the succeeding meeting and after approval by the members copied into the official minute book. It is these official minutes occupying 16 folio ledgers which have been microfilmed, although a few gaps had to be filled from the so-called rough minutes.

After 1870 the minutes of the Council, the new governing body, are to be found combined year by year, with the Academy's minutes. The many loose documents which had been laid between the pages of the ledgers are photographed in their proper chronological sequence at the end of the minutes for each year.

Documents dated before 1840 had to be organized and set in proper chronological position. A large number of typed titles are here inserted to identify loose reports, resolutions and other communications. These headings represent the combined information assembled by Dr. Nolan and the findings of the editors. The first three rolls are therefore heavily labeled for the use of the reader.

From 1840 on, fewer typewritten targets interrupt the flow of the minutes, the user being left pretty much on his own to interpret. After this date, however, officers adopted the custom of keeping a special book or ledger for specific purposes. All the auditor's reports, the nominations for memberships, and reports of committees in general being each written up in a ledger, or pasted in a scrap book devoted to one particular category. Such books have been photographed separately for more efficient handling.

It had originally been planned to present the Academy's archives in two sections, with three appendices. First, the Minutes of the Meetings and related documents, and second the Official Correspondence. Appendix one would consist of Membership Lists and associated papers, while the second would present the Donations to the Museum. The third appendix would be devoted to the summary of "Contents" sheets and other aids to the starred archival collections listed in the published Guide to the Manuscript Collections in the Academy of Natural Sciences. All these are included in the microfilm, but assembled and treated somewhat differently, as shown on page four.

Introductions to materials occurring later in the film appear at the beginning of each section or subject.

BIBLIOGRAPHY OF PUBLISHED MATERIALS

Proceedings of the Academy of Natural Sciences, 1841-1924.

Beginning with 1841, extracts of the minutes, lists of members elected and correspondence received, as well as donations to the library and museum were included in the Proceedings, interspersed with scientific articles. Later, a condensation of the minutes was issued at the end of the volume. By 1920 the Abstract of the Minutes which appeared annually, occupied only three or four pages.

A Short History of the Academy of Natural Sciences of Philadelphia, by Edward J. Nolan, 1909. 38 p.

A Brief History of Academy Publications, by Maurice E. Phillips. Proceedings Academy of Natural Sciences v. 100, xl pages, 1948.

The Academy of Natural Sciences of Philadelphia, by Maurice E. Phillips, p. 266-274. (In Historic Philadelphia, from the Foundations until the 19th Century. Amer. Philos. Society, Transactions v. 43, pt. 1, 1953.)

Guide to the Manuscript Collections in the Academy of Natural Sciences of Philadelphia, compiled by Venia T. and Maurice E. Phillips, 1963, 553 pages. Special Publication no. 5 of the Academy. This guide should be considered a companion volume to the present microfilm publication. Much information will be encountered there to fill gaps in the background necessary to understand the facts set forth in the photographed documents.

HISTORY OF THE ACADEMY

The founding of the Academy of Natural Sciences of Philadelphia was accomplished under many odd circumstances and conditions. Not the least of these was the curious assortment of men who were the founders and their reasons for the action. Seven individuals have been officially credited as founders: John Speakman, an apothecary; Jacob Gilliams, a prominent dentist whose joint business with his father was advertised as, "Barbers, Bleeders and Drawers of Teeth;" Gerard Troost, who though a medical man was interested chiefly in chemistry, geology and mineralogy; Camillus Macmahon Mann, a physician; John Shinn, Jr., a manufacturing chemist; Nicholas S. Parmantier, a distiller and manufacturer of spermaceti oil and cordials; and Thomas Say, a young man with a passion for natural history.

Speakman and Gilliams, at the suggestion of the first, issued the original invitation to various friends who they felt would be interested in forming a society for the study of natural history. Speakman was a Quaker and deeply religious. He earnestly desired to improve the condition of mankind by seeking knowledge and imparting it to others. He had a theory that all social evils derived from a lack of knowledge of the laws of nature. This could easily have been his motivation for wishing to form such an organization.

It is not known how many received invitations to the preliminary meeting. It is recorded, however, that those who came to the apothecary shop that evening, January 25, 1812, were Speakman, Gilliams, Troost, Mann, Shinn, Parmantier and James Cutbush. Thomas Say was not present at either of the first two meetings, but was officially designated by the others as one of the founders.

Also invited but not present were Doctors Samuel Jackson, Samuel Benezet and Benjamin Kugler. Religion and politics were to be barred as subjects of discussion. As this might brand the group a godless society, at least one young physician declined membership, fearing it could be detrimental to his career.

In the subsequent organization of the institution, each of the founders was elected to an official position. Dr. Troost was the only one of the group who could lay claim to a sound scientific education, so was chosen president; Parmantier and Shinn vice presidents; Speakman treasurer; Gilliams comptroller; Say curator; and Mann secretary.

The founders set about promptly to organize the structure of the new institution and to formulate regulations and principles for the guidance of themselves and future members. There are many documents preserved with the minutes which were written by different individuals, presenting their views and ideas. Care was taken to insure that the election of members would be unanimous.

At the time of the Academy's founding, Philadelphia was considered the center of scientific as well as cultural activity in the New World, though a population center of only 100,000. The fact that the Academy was born so early, provided it with the opportunity to share in the development of most of the new ideas in natural history. It has also participated in most of the controversies which inevitably surround new concepts.

From small informal meetings, often devoted to reading aloud from an encyclopedia, the Society grew to have an international interest. Initially, local members met for the exchange of ideas, but soon the membership was broadened to include nonresident members, and even foreign scientists. The latter were brought into contact by election as correspondents. Thus the Academy soon added stature to the rich cultural development of Philadelphia.

Periodically throughout its history, the Academy has been faced with the problem of finding new quarters. This has been necessary because of increasing membership, and lack of space in which to house its growing collections and library. It has, in all, occupied six buildings. The first at 121 Second Street, beginning in April 1812; the second at 78 North Second Street, occupied later the same year; the third at Gilliams Court on Arch Street, between Front and Second Streets, occupied in August 1815; the fourth at Twelfth and George (now Sansom) Streets, occupied in 1826; the fifth at Broad and George Streets occupied in 1840; and the sixth at its present location at 19th and Race Streets occupied in 1876. Only the last two of these were built by the Academy for its own purposes.

The first year or two were somewhat discouraging to the members. They had few resources with which to carry on. But they immediately started to assemble specimens and to accumulate a library. At first the subject interests embraced all the natural phenomena, but after the first quarter century the chemical, physical and astronomical subjects were dropped. At a much later date, during the early 1900's, the archaeological and anthropological aspects were curtailed. Although at various stages in its history, some areas of technological or economic investigation have been temporarily adopted, the research has been primarily in so-called pure science.

Very early this interest was directed toward taxonomy—the naming and describing of specific entities in botany, zoology and mineralogy.

There is an undated document inserted in the Academy minutes of 1816. It is by Dr. John Barnes who was the first elected member (Apr. 16, 1812). This informal six-page history of the first four or five years of the institution, is undoubtedly the first ever prepared.

One of the most important events in the institution's early history was the election to membership of William Maclure who became its second president in December, 1817. Here was a wealthy man with philanthropic instincts, slanted towards education. In the field of science he was also outstanding, being a leader among geologists and the first to map the geological formations in the United States. He retained the office of president for twenty-two years, or until the time of his death in 1840. During that entire period he never ceased to contribute liberally to the financial needs of the Academy. The richness of the present library in rare early works is due in large measure to his personal purchases.

By 1817 the members were beginning to feel the need of a medium for publishing their research. In that year, at the suggestion of Mr. Maclure, the first series of the Academy's Journal was inaugurated. It did much in the succeeding years to establish the reputation of the new Society as a scientific institution. With the first issue of this Journal in 1817, plans were put in operation to exchange the Academy's scientific publications for those of other institutions throughout the world. Some 75% of the serials in the library have been added through exchange, about 900 research centers being involved.

To extend its study collections, arrangements were made to exchange specimens and to purchase collections from all over the world. To further this purpose, Academy members concerned themselves with expeditions. Many hundreds, perhaps thousands, of such trips have been made, and their importance can hardly be overestimated. The naturalist, having combed his immediate environment for material, finds it desirable to look elsewhere. Men such as Audubon, Lesueur, Nuttall and Say seemed to have a definite nomadic urge which impelled them to go, often alone, to wild and distant places in search of new material.

Private collecting and exploring trips were initiated by the Academy, such as the Florida Expedition of William Maclure, with George Ord, Titian R. Peale and Thomas Say, the Peary Arctic and Greenland Expeditions, with Angelo Heilprin, Benjamin Sharp and William E. Hughes. The first publication of the Academy was addressed to

sea captains who were given directions for collecting, preserving and bringing back exotic natural history specimens.

Furthermore, Academy men were sent on government-sponsored explorations. This was true of the Long Expedition to the Rocky Mountains in 1819-1820 and the U. S. Exploring Expedition under Capt. Wilkes in 1838-42. Numerous groups on government surveys for gaining new knowledge of the relatively unexplored West, were accompanied by Academy personnel. During this period, the U. S. Government made frequent use of the Academy's publication outlets, its Proceedings and Journals, to record the results and findings of such surveys.

By the close of 1820, the institution had elected some hundred resident members and one hundred and ninety honorary correspondents. The members had by then gained confidence in the permanence and solidity of their new Society, and its aims and policies had become more stabilized. Men of prestige were rapidly joining its ranks. By 1893 the numbers were swelled to nearly three thousand members, twelve hundred of whom were resident, the others living in forty-eight foreign countries.

The Academy's membership list reads like a directory of the scientists of the times. Famous local members included Alexander Wilson, John James Audubon, Constantine Rafinesque, David L. von Schweinitz, John Cassin, Isaac Lea, Edward D. Cope and Joseph Leidy. Nonresident American names included Louis Agassiz, John Torrey, Asa Gray, Ferdinand V. Hayden, Thadeus Harris, James Hall and B. S. Silliman. Notable foreigners were Charles Darwin, Chevalier de Lamarck, Michael Faraday, John Priestly, Albert I, Prince of Monaco, John Gould and Georges Cuvier, to name a few.

Such members corresponded with Academy colleagues, each in his own specialty, new theories and ideas often being discussed in letters before they were crystallized for publication. They donated specimens for the research collections, sent scientific literature for the library and presented papers for publication in its Journals and Proceedings.

The admission of Thomas B. Wilson as a member in 1832 was another milestone in the continued prosperity of the institution. Like Maclure, he was a wealthy and philanthropic gentleman. He was elected as the seventh president in 1832. Later he purchased in Paris the famous bird collection of the Duc de Rivoli, consisting of 10,000 specimens. His entire personal collection of birds (some 25,000 specimens) including the John Gould collection purchased in London,

was donated to the Academy in 1860. The combined bird collections at the Academy then constituted one of the four greatest collections in the world, and was especially rich in type specimens. Like William Maclure, T. B. Wilson expended a fortune on the Academy, but himself made few published contributions to science. His additions to the library were enormous, while his gifts of study collections encompassed the whole field of natural history. Especially outstanding were his deposits of minerals, shells and insects.

The Academy completed its first half century with bright prospects and a very satisfying record of accomplishment. The publication of the Proceedings had begun in 1841, and of the second series of the Journal in 1847. George W. Tryon, Jr. began to issue the American Journal of Conchology in 1865, and in 1877 started the 45-volume Manual of Conchology, a large part of which was later to be completed by Henry A. Pilsbry.

The present Academy Building at 19th and Race Streets was erected in 1875. A special effort was made to have it finished and the library and collections transferred in time to accomodate vistors attending the 1876 Philadelphia Centennial Exposition. The Academy agreed at that time to give space to the young American Entomolgal Society for its meetings, library and collections. They have been continuously housed in the building since then, to the mutual advantage of both institutions.

A meeting for the formation of the American Association for the Advancement of Sciences was held in the Academy in 1848. This was one of the most significant meetings in the cause of American science ever held. Another important scientific body, the American Medical Association had previously held its founding meeting here in 1847, while the American Library Association was started on its career through an initiatory meeting at the Academy in Philadelphia.

Other organizations sponsored here, many of which have enjoyed long association with the Academy could be cited as the Association of American Geologists and Naturalists, the Leidy Microscopical Society, The Delaware Valley Ornithological Club, The Philadelphia Botanical Society, The Pennsylvania Fish Culturists' Association, The American Ornithologists' Union, The Philadelphia Mineral Society, The Geographical Society of Philadelphia, the Ludwick Institute, and others.

Interest in the evolution of man and his relatives, the races resulting and the ethnic and geographical groups formed, occupied a large part of the thinking of its members for a few decades. When

Samuel G. Morton was investigating the Subject of the "Unity of Man," an ever broadening wave of awareness enticed coroners to preserve crania of paupers for the Academy, army officers to collect and send back the crania taken of famous soldiers of all races from battle-fields, physicians to send in those skulls of outstanding interest of criminals, the insane and diseased persons, egyptologists to present mummies and in fact the whole world of scientific minded persons to join in the undertaking to assemble a great collection of human crania for a permanent storehouse of documented specimens for study.

Later, the Darwin theory of evolution solved the above controversy to a great extent. At the same time it presented a great many facets of disagreement in all biological organizations, but surprisingly little publicity was given to Academy dissention. Probably this may be traced to the original stand against religious and political conversation.

Joseph Leidy and Edward D. Cope have both been characterized by different people as America's greatest naturalist. Both were active workers at the Academy for a long period and both belonged to the University of Pennsylvania community. Many other important scientists have played their part as Academy members. William Bartram, John Kirk Townsend, the Kern brothers, Edward J. Nolan, W. S. W. Ruschenberger, John H. Redfield, Witmer Stone, J. Percy Moore, Henry W. Fowler, Henry A. Pilsbry, Ezra T. Cresson, Philip P. Calvert are mentioned in passing.

In 1866 the Academy sanctioned the formation of Sections by different departments "to facilitate and encourage special investigation in any branch of science." Eight such sections were eventually formed: Conchological, Biological and Microscopical, Physics and Chemistry, Botanical, Entomological, Mineralogical and Geological, Ornithological, and Anthropological. Some sponsored publications in their own field. In 1924 a change in bylaws discontinued all sections of the Academy. At the same time the administration of the Academy was changed from the responsibility of the curators and councilors and became governed by a Board of Trustees. Membership requirements were also changed so that all interested persons whether lay public or scientist could be admitted as members by the payment of prescribed membership dues.

In March of 1912 the Academy celebrated its centennial. Special engraved invitations were sent to some 1000 institutions throughout the world. Nearly 200 of these were represented by delegates at the meetings, and over 175 others sent letters, cablegrams or congratulatory certificates. A commemorative volume of the Journal (vol. 15) was published, compiled and edited by Edward J. Nolan.

The chief physical assets of the Academy throughout its long history have been an outstanding library and exhaustive study collections of natural history specimens. The library of 150,000 volumes is highly specialized and unequaled in this country in many respects. To the above must be added the important manuscript collection—recently cataloged—which includes roughly a quarter million pieces. The natural history collections now number some 8,000,000 specimens from all parts of the world. All natural history subjects are represented, whether actively studied currently, or only preserved for future investigators.

The serial publications of the Academy through 1924 included its Journal, 1st and 2nd series, Proceedings, Special Publications, Manual of Conchology, Annual Reports and Year Books. Some 150 volumes have been issued in this category of serials, while nearly an equal number of smaller items and publications have independently appeared. These all point to active participation in the basic development of thought in the natural sciences.

Throughout the history of the institution some 70 funds have been set up for various purposes. Some have been designated by the donors as for general purposes, others with specific objectives; some have been expendable, others were permanent funds, only the income being available for use. Similarly, numerous bequests have come to the Academy on the same basis. Only a few of the more important can be mentioned: Edward D. Cope, Joshua T. Jeanes, Mary Jeanes, Henry N. Johnson, Robert H. Lamborn, James Aitken Meigs, Edward J. Nolan, Charles E. Smith, William S. Vaux, Isaiah V. Williamson, Thomas B. Wilson.

At various times the Legislature of the State of Pennsylvania has appropriated to the Academy a total of over \$500,000. This came in a number of different appropriations, each of which was designated for particular purposes. Most of it was for aid in completing and equipping the new building on Race Street and housing the collections of the 1st Geological Survey of Pennsylvania, 1836-58.

Meetings of the Academy and of its Council

Roll 1, Minutes, 1812-1823, 732 exposures

Besides the minutes of the meetings, this reel contains documents relating to the founding of the Academy of Natural Sciences of Philadelphia: continues through 1823. In establishing the Society, several of the founders made initiatory statements in which they incorporated their ideas regarding the organization and policies of the proposed institution. Reports of curators, treasurers, secretaries, librarians and various special committees are included. The Act of Incorporation, auditor's and publication accounts, nominations for membership, and data on the establishment of the Academy's first serial publication complete the reel.

The growth of the natural history collections, is followed from the first presentation herbarium donated by a friend in Paris through one of the founders, Nicholas Parmantier, and the initial purchase of the Seybert minerals. The accumulation of books for the library began when members brought in their personal volumes for temporary use in the Hall and progressed to a highly prized workable unit through gifts, deposits and exchanges.

Launching into the educational field with the presentation of lectures on botany "for the ladies of Philadelphia," given by John F. Waterhouse and John Barnes, the forward movement has been steady, though slow. Bearing in mind the expressed wish of the founders that published accounts of its activities and investigations should be printed, the first number of the Academy's Journal was issued by the committee on May 20, 1817.

Scattered through this varied material will be found frequent mention of the names and activities of men who became important in the development of the Academy, and in many cases, outstanding figures in the field of natural history. Among these were Isaac Hays, Augustus E. Jessup, Isaac Lea, Charles A. Lesueur, William Maclure, Samuel G. Morton, George Ord, Titian R. Peale, Thomas Say, Gerard Troost and Alexander Wilson.

Meetings were held and minutes recorded at weekly intervals except when a quorum was not present. For a great many years, the Tuesday evening meeting was mandatory, even on Christmas Day,

New Years, Easter and Thanksgiving Holidays. One exception was usual—no meeting on July 4th.

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The Academy had by this time gradually gained somewhat more confidence and prestige. William Maclure had been elected president in 1817, and between the dates here included William H. Keating and Samuel G. Morton acted as Recording Secretaries.

In 1825, however, the Society suffered something of a blow when its president and three of its most active scientific members, Thomas Say, Charles A. Lesueur and Gerard Troost removed to New Harmony, Indiana to join the Harmonists under the persuasion of the educationalist, Robert Owen.

To partially offset this exodus, certain important figures came to the fore, i.e. George W. Carpenter, William H. Keating, Isaiah Lukens and Samuel G. Morton. By January, 1827, 116 resident members had been elected.

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Roll 3, Minutes, 1828-1839, 569 exposures

During these years there appears evidence that the Academy was achieving a feeling of permanence—was becoming a well-established institution. In 1839 it laid the corner stone for the first building it constructed for its own use. It was taking part in, or supporting more and more expeditions. Among these were the two Schoolcraft expeditions, one "to the Indian Country" (1831) and the other to explore the sources of the Mississippi River (1832). Three Academy members accompanied the U. S. Exploring Expedition under Wilkes, (1838-1842). In this section is presented a receipt from John K. Townsend for financial aid in his famous trip with Thomas Nuttall to the mouth of the Columbia River, for which aid he made a return of about a hundred specimens of birds and 100 species of shells. Also there is recorded a donation from Dr. von Hering of nearly 300 bird skins, 400 species of insects and specimens of mammals and fish—all from Surinam.

This period saw the death of Thomas Say and Lewis David von Schweinitz. Say gave his insects—the most important historical American collection of the time to the Academy. There is a record here after Say's death, of its being turned over to Thadeus W. Harris in Massachusetts for identification of species. The collection had been placed in locked cases by Say when he left for New Harmony with his explicit directions that it not be opened until his return. Before the Say insects were sent back to Philadelphia, the fact emerged that somewhere in the course of the history of the collection,

complete disintegration and destruction of the specimens had occurred.

William Maclure remained president throughout this period, while seven recording secretaries held office: Samuel G. Morton, Thomas McEuen, Paul B. Goddard, Thomas D. Mutter, Joseph Corson, Thomas Stewardson, Jr. and John Simmons.

Some important new members included Thomas B. Wilson, Timothy A. Conrad, John K. Townsend, Samuel S. Haldeman, Samuel Ashmead and Robert Bridges.

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Roll 4, Minutes, 1840-1850, 485 exposures

Beginning with 1840, there will be found practically no supplementary material inserted in the minutes. Such information was written up in separate book or ledger form and is microfilmed elsewhere in the publication.

The Academy felt very deeply the death of William Maclure in 1840. He had been elected president in 1817 and served in that capacity until his death. He had guided the institution through many difficult times. He had contributed valuable collections to its museum. He had donated thousands of dollars to its support, paying most of the cost of the 1839 new building. Nearly all of its early library holdings were given by him, including his personal library of 2259 volumes presented shortly before his death. His total gift of books amounted to 5000, a large part of which were rare and valuable works.

Maclure's death left a depressing vacuum which, fortunately, was to be effectively filled by Thomas B. Wilson as a major benefactor of the institution.

During this decade, William Hembel and Samuel G. Morton succeeded Maclure as presidents.* Among the important men elected to membership in this period were John Cassin, John Lawrence LeConte, Joseph Leidy and William Gambel.

In 1841 the Academy began the publication of its Proceedings and in 1847 the second series of its Journal.

The program of weekly meetings was carried out, except when no quorum was present. So many meetings were canceled that one assumes that interest was low and funds very short for Academy activities. No meetings were held on Apr. 18 or Sept. 26 in 1843; on Aug. 13 or Dec. 24 in 1844; on July 8, 22, or 29 in 1845; on July 4, 1848; Mar. 20, 1849 or July 9, 1850. No log to the minutes is necessary, when no inserts are added.

Roll 5, Minutes, 1851-1860, 692 exposures

In the middle years of the last century the Academy was beginning to develop more interest in activities outside its own immediate affairs. As examples of this might be cited the appeal to congress in 1854 to send an expedition for the relief of the Grinnell Arctic Expedition which had gone to look for the members of the expedition of Sir John Franklin, who had not been heard from for several years. Kane, unreported for some time, was thought to be in serious trouble himself. Other lesser interests are demonstrated in a subscription sent in 1855 to a monument to Alexander Wilson to be erected in Paisley, Scotland, and in granting permission to use its hall or admit guests in its museum to such groups as the Musical Fund Society and the Educational Convention.

By the end of this period (1860), the Academy had published the eight volumes of the first series of its Journal and four volumes of the second series, and in addition twelve volumes of its Proceedings. The Publication Committee still only had the responsibility of administering publication funds and accepting manuscripts handed them which they published and distributed. Each manuscript had previously been reviewed by a special temporary committee selected to

* Recording secretaries were A. D. Chaloner, Wm. S. Zantzinger, Theodore F. Moss, Wm. Gambel and Samuel Powel.

examine it and give a report to the Society members as to its acceptability. Not until a change of Bylaws in 1876 did authors present their papers directly to the Publication Committee which itself accepted or rejected them.

Two presidents were elected during these years--George Ord and Isaac Lea. B. Howard Rand acted as Recording Secretary.

Augustus E. Jessup, prominent Academy scientist died in 1859. The following year his children, in fulfilling his known wishes, began paying to the Academy \$480 per annum for the assistance of poor young men desiring to study natural history. In 1872, to simplify this procedure a fund of \$10,000 was set up to accomplish the same purpose. This amount was later doubled to set up a fund for females. Many men, later to become well-known naturalists used this assistance as a springboard in starting their careers.

In 1841 Lucy Say had been elected the first woman member, partly in recognition of her constant work with Thomas Say in New Harmony, partly because of her many donations to the Academy in her husband's name, but perhaps mainly for her personal interest in natural history and her ability as a scientific illustrator of insects and shells. The attitude toward women, however, had not yet blossomed into its present state. But on July 29, 1851 the widows and families of prominent scientists were voted the privilege of using the museum and library when they were open. This was apparently not a perpetual privilege but was accorded to a few widows at a time for a specified period. Among those taking advantage of this favor were Mesdames R. Eglesfeld Griffith, John K. Townsend, William Gambel, Samuel G. Morton, and John P. Wetherill. The library and museum privileges were also granted to students in the four Philadelphia medical colleges.

In 1852 two joint meetings a year with the College of Physicians were started, Isaac Hays sailed on his Arctic Expedition in 1858 and the death of Thomas Nuttall, the oldest correspondent occurred in 1859. The log of the minutes details no other outstanding events for Roll 5.

Roll 6, Minutes, 1861-1879, 793 exposures

During this period Isaac Lea, Thomas Bellerby Wilson, Robert Bridges, Isaac Hays and William S. W. Ruschenberger served as presidents, while recording secretaries included B. Howard Rand, Horatio C. Wood, Samuel B. Howell and Edward J. Nolan.

The Academy continued its policy of weekly meetings and through 1865 its membership acted as a committee of the whole to govern the institution. The Curators enjoyed a fairly free hand in managing the collections, personnel, building and instruction of novices.

Important events and activities of the period include the work of the Trustees of the Building Fund under W. S. W. Ruschenberger, the erection of a new building at 1900 Race St., and the Academy's active participation in the Philadelphia Centennial Exposition. At the close of the Exposition the Academy received valuable collections from various countries which had exhibits there and preferred to donate the material rather than ship it back home. Among these collections were many shells from Japan, fishes from the Philippines, and numerous botanical specimens, including samples of wood from Tasmania.

Also are recorded important gifts from members and associates, such as T. B. Wilson's collections of books, birds, shells, insects, minerals and plants, and his bequest of funds for the library. The death of Dr. Wilson occurred in 1865, and that of John Cassin, Curator of Birds in 1869.

The Council is first mentioned in the 1866 edition of the Bylaws where its responsibilities are outlined. It appears to have been a pretty potent advisory body, since it had general direction of the affairs of the Academy, handled its special funds, chose recipients for the Jessup Scholarship, initiated all changes in the Bylaws and nominated corresponding members. The Council consisted of all officers of the Academy (including ex-presidents, vice-presidents and secretaries) and four annually elected councillors. In 1870 the Academy's Bylaws further required that the council keep a record of its transactions. As a result this roll contains not only the minutes of weekly Academy meetings but, beginning with 1870, the minutes of the monthly meetings of the Council. From March 14, 1871 through 1875 the corrected and official weekly minutes were never written in final form but have been filmed from the Academy's so-called "Rough Minutes."

The log of the minutes records no other special events from 1861 to 1879. In 1870 exp. 293 lists the members of the seventeen standing committees.

Roll 7, Minutes, 1880-1891, 769 exposures

Under the presidencies of Drs. Ruschenberger and Leidy, the twelve years covered by this roll developed some interesting events.

The custody of the collections of the First Pennsylvania State Geological Survey were given to the Academy in 1883. The following year saw an important meeting in its halls of the American Association for the Advancement of Science. Edward J. Nolan continued as Recording Secretary.

In 1885 the second series of the Manual of Conchology was initiated. In 1877 George W. Tryon had begun, personally edited and published the first nine volumes of the first series. The first four volumes of series 2 were handled in like manner, but upon Tryon's death he bequeathed the publication to the Conchological Section of the Academy and the subsequent 32 volumes were edited by Henry A. Pilsbry who succeeded Tryon as curator.

A proposition was made to the Academy in 1890 that it should move to the campus of the University of Pennsylvania in West Philadelphia and become a part of that institution. The matter was considered in much detail, but the suggestion was finally rejected largely on the basis that aims and purposes of the two institutions varied so widely.

In the same year the Academy sent an important expedition into Yucatan and Mexico. It included five scientists headed by Angelo Heilprin. The members examined ancient ruins, made general zoological reconnoissance both marine and terrestrial and investigated geological formations. Numerous papers in the Proceedings resulted. The Peary West Greenland Arctic expedition of 1891 was in part supported by the Academy.

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1891. Minutes-Academy, Jan. 6-Dec. 29	691-743
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768-769	
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Roll 8, 1892-1905, 818 exposures

The Academy had, during this period, two presidents, General Isaac J. Wistar and Samuel G. Dixon. Edward J. Nolan remained the Recording Secretary. It was a relatively quiet era in the institution's history. An expedition in charge of Angelo Heilprin was dispatched in relief of Robert E. Peary. It departed in 1892 and returned in the following year, accompanied by Peary.

Following the death of Robert H. Lamborn in 1895, the Academy received from his estate the largest bequest it has ever received.

The new central section of their building was completed and opened in 1896, which provided much-needed room for growing collections.

The death of Edward D. Cope in 1897 deprived the Academy of one of its most outstanding members of all time. He was one of the most distinguished American Scientists of the 19th century, having contributed over 1300 papers to scientific literature.

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1897. Minutes of weekly meetings, Jan. 5-Dec. 28	382-424
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Committee on instruction and lectures, Exp. 440-441	
1898. Minutes of weekly meetings, Jan. 4-Dec. 27	445-480
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1899. Minutes of weekly meetings, Jan. 3-Dec. 26	506-545
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Committee on Bylaws, Exp. 523, 552, 553	
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| Minutes of monthly Council meetings, Dec. 31[1900]-Dec. 29 | 656-678 |
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| Budget report of Geo. Vaux, Jr., Exp. 671, 673 | |
| Donation of E. B. Morris of amount due him on Lamborn Estate business (\$7843.17), Exp. 674 | |
| Free lecture courses, 1901-02, Exp. 676-78 | |
| 1902. Minutes of weekly meetings, Jan. 7-Dec. 30 | 679-709 |
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| Smith estate accounts for audit, Exp. 720 | |
| 1903. Minutes of weekly meetings, Jan. 6-Dec. 15 | 728-749 |
| [New Bylaws provide that henceforth Academy meetings will be held on 1st and 3rd Tuesdays of each month, Oct. to May incl.] Exp. 741 | |
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| Library Committee, Exp. 752 | |
| Lamborn Estate at Colorado Springs, Exp. 758 | |
| Free lecture courses, 1903-1904, Exp. 765-67 | |
| Curators lament at smoking ban in building, Exp. 769 | |
| Treasurers estimate of funds, Exp. 769 | |
| 1904. Minutes of meetings, 1st and 3rd Tuesdays, Jan.-May, Oct.-Dec. | 770-782 |
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| Recontinuing publication of <u>Manual of Conchology</u> , Exp. 785-86 | |

1904. Minutes (continued)	Exposures
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Roll 9, 1906-1925, 729 exposures

During this period, meetings of the Academy were held twice monthly, October through May, while the Council met monthly, except in summer. The members were continuing to reach out into more outside interests.

Following the San Francisco fire, where heavy damage was done to the library and collections of the California Academy of Sciences, the Philadelphia Academy shipped them 1400 volumes of scientific literature, including back runs of its own Proceedings. And when President Theodore Roosevelt initiated his forest conservation project a resolution was sent backing him wholeheartedly. It also contributed to the Darwin Memorial. Office space was furnished the Pennsylvania Department of Health, and the Zoological Society of Philadelphia was permitted the use of the Council room for its meetings.

Three presidents held office during these years: Samuel G. Dixon, John Cadwalader, and Richard A. F. Penrose. Edward J. Nolan served as Recording Secretary through 1921, and was succeeded by James A. G. Rehn.

The microfilm of the Report Book of Committees occupies exposures 474 to 729. The first four exposures of this segment constitute the index to the book. While some committee reports continued to be inserted in the Council minute books, by far the greater number were assembled in a volume carrying the binders title of Reports. This is referred to in the Council minutes as Report Book.

The Index did not originally include the many loose reports laid in. Recently a comprehensive typed index was compiled which has been microfilmed at the beginning of the Committee reports. The references are to pages in the Report Book, not to the exposure numbers.

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CORRESPONDENCE RECEIVED, 1812-1924

Rolls 10-34

The term "Official Correspondence" is somewhat misleading. Long years ago, the name grew up with the accumulation of correspondence preserved by the secretaries. Besides "Official Correspondence," general miscellaneous letters, perhaps addressed to member-officials of the Academy and perhaps to fellow scientists whose only address known to the author was the Academy. Most of the letters are written in English although some early ones were couched in Latin. Foreign correspondence was usually written in the author's native tongue, and only in a few instances are English translations introduced.

A great mass of official correspondence has not been interfiled here, but remains in the collections which are identified by the Academy officer who amassed them. Further business of the Institution should be found in the correspondence of such scientists as, P. P. Calvert, Samuel G. Dixon, Henry W. Fowler, S. G. Gordon, Morgan Hebard, Wharton Huber, Joseph Leidy, J. Percy Moore, Francis W. Pennell, Henry A. Pilsbry, James A. G. Rehn, W. S. W. Ruschenberger, Chas. Eastwick Smith, Witmer Stone and George W. Tryon.

These microfilmed letters are essentially those described in the Guide to the Manuscript Collections in the Academy of Natural

Sciences of Philadelphia (1963), as collections 566 and 567. All those dated from 1812 to 1924 are combined in one revised alphabetical author index. Users are advised to refer to the Guide, as in that published account may be found the number of letters of each author, with inclusive dates. In the film reproductions, letters are arranged chronologically under each author. The entire collection of letters numbers nearly 20,000. Recipients are not listed either on film or in the manuscript file.

Different officials of the Academy had various methods of filing the correspondence received. In early days, yearly batches of letters were often folded and placed between two narrow strips of wood, strips which were held snugly in place by tape or a piece of string tied around them. The folded letters fitted the wooden strip exactly and a filing note jotted down on the upper outside end of each letter. This note bore the author's name, date, and brief mention of the subject treated in the letter. This system resulted in soiled or worn folds in the letters themselves which are often evident on the film.

During Edward J. Nolan's long service as recording secretary (1874-1920), he attempted to accumulate all Academy correspondence in one assemblage, arranging it in a chronological system to the extent of keeping very early letters together, followed by another series, perhaps covering the next quarter century.

At some period, the correspondence sheet had holes punched in it and the items filed in a hard cover, loose leaf volume. Hence the presence of holes showing in the film doesn't mean that the exposures are to be obliterated.

At a much later date, in the 1930's, under the supervision of James A. G. Rehn, this material was all transferred to letter boxes, and through a WPA project a card file was made listing each letter under author's name and date. On the cards were placed brief notes regarding contents. This file, has been preserved, but has not been included in the microfilm.

In the collection will be found carbon copies of answers to letters, and over 1500 replies copied by Nolan in longhand. All replies of any kind are filed under the name of the recipient rather than under the name of the Academy official who prepared them. When square brackets appear enclosing a name, they show that the letter was addressed to that author and that none signed by him is to be found in the official correspondence. Some unnecessary inclusions of backs of letters, of post cards, etc. have been filmed in error.

The list includes many names of institutions or corporations. But if the signer were a well-known scientist, such letters will usually be arranged under the signer's name.

An attempt was made to photograph letters, even when the ink was faded. The results are not always the best, but certainly as legible as the manuscript itself.

OFFICIAL CORRESPONDENCE-ROLL NOTES

- Roll 10. Aaron to Bartram. 1078 exposures
- Roll 11. Bascom to Bishop. 850 exposures
- Roll 12. Black to Brown. 964 exposures
- Roll 13. Brownback to Cattell. 842 exposures
- Roll 14. Caudell to Conyngham. 960 exposures
Additions and retakes are placed at the end of the roll, as 324a, 608a, 640a, 659a, 661a, 714a, 754a, 848a, and 871a
- Roll 15. Cook to Daudoman. 883 exposures
Retakes and additions appear at end of reel as frames 21, 22, 144a, 742a, and 761a
- Roll 16. Davenport to Dyrson. 1007 exposures
See retakes and additions at end: 96a, 296a, 351a, 657a, 976a, and 978a
- Roll 17. Eagle to Foyle. 1255 exposures
Additions 90a, 345a and 424a at end of reel
- Roll 18. Frayley to Guyot. 1144 exposures
Additions 121a, 222a, 377a, 446a, 489a, and 1044a at end
- Roll 19. Haagner to Henszey. 1179 exposures
Numbers 559a, 600, 601-617, 745, 746, 1054, 1055 at end.
- Roll 20. Herald to Hyrtil. 1136 exposures
Retakes of numbers and insertions of various pages omitted in first filming are found at the end of the roll: 356a, 356b, 408a, 408b, 411a, 430, 510, 511, 548, 606a, 665-668, 686a, 692, 786, 787, 971a, 972a, 1016-1019, 1019a, 1019b, 1019c, 1019d, 1039-1042, 1042a, 1087, 1088, 1095, and 1099

- Roll 21. Ithering to Keystone. 1053 exposures
Retakes 907-910 appear at end of the roll
- Roll 22. Kildare to Lesson. 1032 exposures
Numbers 247, 248, 794a, and 1018a at end
- Roll 23. LeTour to Lyons. 668 exposures
Additions and retakes 509a, 509b, 556a, and 607a at end
- Roll 24. McAleer to Maszarelli. 1052 exposures
Retakes 1a, 393a, 543-545, 583-588, 681-684 at end of reel
- Roll 25. Mather to Moon. 898 exposures
See numbers 449-456 and 674a at end
- Roll 26. Moore to Nye. 1039 exposures
Retakes and additions 176-180, and 925a are at end of reel
- Roll 27. Oberholtzer to Pettingell. 1058 exposures
Numbers at end of the reel: 35a, and 1000a
- Roll 28. Pflaum to Rhoads. 1028 exposures
Additions and retakes 229a, 285a, 340, 341, 449a, 576a and 576b are at end of reel
- Roll 29. Rice to Ryland. 1022 exposures
Additions and retakes 35a, 44a, 64a, 129a, 325-328, 785a, 907a, 926a, 930-938.
- Roll 30. Sachse to Smiley. 1014 exposures
579a is at the end of roll
- Roll 31. Smith to Storer. 1033 exposures
Additions 183a, 488a, 676a, 701a, 776a, and 793a at the end
- Roll 32. Straton to Union. 918 exposures
Retakes and additions 225-227, 453a, 453b, and 786a at end
- Roll 33. U. S. to Weymouth. 1395 exposures
Additions 773a, 1203a and 1246a are at the end of roll
- Roll 34. Whartenby to Zwahn. 1244 exposures
Additions and retakes 181a, 407-410, 452a, 532a, 572a, and 952a end the roll

Roll 35. Exposures 1 to 263

Correspondence (outgoing) 1814-1876

"List of Communications written by the Corresponding Secretary of the Academy of Natural Sciences. Instituted [by] Reuben Haines, elected Corresponding Secty. 3 Nov. 1814."

Exp. 001-018 34 pages

Last date: Nov. 2, 1824

Headings in the booklet: Date, election date, address (name of recipient), residence, purport of letter, and sent by (Name of courier, or mail, etc.)

"Letters and memoranda of the Corresponding Secretary, The Academy of Natural Sciences of Philadelphia. 1832-33-34-35-36-37-38-39."

118 numbered pages, Index of 4 pages.

Exp. 19-83

A diary, detailing information about the tasks accomplished by the secretary through July 30, 1846 (p. 117) in paragraph form. Some letters are copied in full. Earlier records are initialed S. G. M. (Samuel G. Morton) while later entries are signed by Walter R. Johnson.

Correspondence of the Secretary, 1846 to 1876. Letter and Memorandum Book. 157 pages.

Exp. 84-144

A diary-type record similar to the preceding, secretaries involved during this period being Walter R. Johnson, John Cassin, John L. LeConte, Thomas Stewardson, Jr., Joseph Jeanes, Harrison Allen and Edward D. Cope, Pages 52 to 79, and 120-128 are unused.

Correspondence of the Secretary, 1867-1871. Letterbook, prefaced by a rough finding index to recipients. 115 pages, numbered by hand.

Exp. 145-263

Many of the copies are so poor they are scarcely legible and a large number near the end are hopelessly faded and so were not microfilmed. The secretaries concerned are Harrison Allen and Edward D. Cope. Exposures #257 to 259 signed Edward J. Nolan and exp. #262 by Samuel G. Dixon.

Roll 35. Exposures 264 to 396

"Contents" or summaries of the 55 archival collections described in the published "Guide to Manuscripts"

In the Guide, the asterisk preceding the collection number indicates that an aid of some sort is available to users in the manuscript section of the Academy's library. Since these "Contents" have not been published elsewhere, they are included in this microfilm for the convenience of scholars. Some of the card files and a few of the ledgers have been filmed and appear on another roll. But the remainder of the typed summaries occupy the second half of Roll 35, arranged in alphabetical order accompanied by the collection number, taken from the Guide. Some sixty collections are involved, unrevised and embracing more than the years covered by the minutes and correspondence. The numbers following the dates in the following list, refer to the Mss. Coll. Number in the published "Guide."

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 Auditors' reports and other documents, 1822-1853, 537
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 Collections-Birds. Papers, 1832-1941, 54
 Collections-Fishes, Papers, 1877-1954, 704
 Collections-Insects, 736
 Collections-Mammals. Papers, 1891-1960, 614
 Collections-Minerals. Catalogs and papers, 1815-1948, 141
 Collections-Mollusks and other Invertebrates. Catalogs and papers, 1833-1959, 201
 Collections-Museum and Exhibits. Donations, 195

Collections-Plants. Catalogs and papers, 1834-1938, 120
 Collections-Vertebrates, Papers, 1830-1941, 587
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 Committee Report Book, 1875-1913, with Index, 443
 Committee Reports of Samuel G. Morton, Chrm. 1825-1841, 30
 Conchological section. Papers, 1852-1922, 81
 Curators, Board of. Papers, 1822-1901, 86
 Entomological section. Papers, 1875-1924, 100
 Entomology department. Papers, 1902-1941, 116
 Exhibits department. Papers, 1868-1945, 256
 Expeditions, Papers, 1819-1947, 113
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 Library. History and papers, 1896-1960, 591
 Library. Papers, 1831-1954, 456
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 Officers and Committee lists, 1812-1955, 391
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 Secretary, Corresponding. Record of letters written, 1814-1873, 80
 Special Committees. Reports, 1813-1911, 443 & 940
 Vertebrate department, 1832-1947, 232

Roll 36, Memberships, 1812-1924, 696 exposures

In its earliest years the membership of the Academy of Natural Sciences of Philadelphia was restricted largely to local scientists and other individuals interested in some phase of its research. As its stature increased, however, largely through its publications, its membership rapidly grew to include most of the famous naturalists of this country as well as those in foreign lands.

The early bylaws stated that: "the Society shall consist of members and correspondents. . ." Thus, two classes of membership

were established. Though many changes in the bylaws were made, that condition was maintained through 1924, although other categories were added.

Some of the prominent earlier American naturalists who were members are here listed. A few, though foreign born did most of their work in this country: Louis Agassiz, John James Audubon, William Bartram, Amos Binney, W. G. Binney, Timothy A. Conrad, Edward D. Cope, W. H. Dall, W. M. Gabb, Asa Gray, S. S. Haldeman, George H. Horn, John L. LeConte, Joseph Leidy, Charles A. Lesueur, William Maclure, Samuel G. Morton, Thomas Nuttall, Titian R. Peale, Charles Pickering, C. S. Rafinesque, Thomas Say, Benjamin Silliman, John Torrey, and Alexander Wilson.

Among the many foreign members were: Charles Lucien Bonaparte, Baron Cuvier, Charles Darwin, Michael Faraday, Baron Ferussac, Pierre-André Latreille, M. F. A. Michaux, Dessalines d'Orbigny, and Prince Maximillian Wied-Neuweid.

Ten lists of members and correspondents have been printed by the Academy. The first of these was in a volume containing a catalog of the library-printed in 1836. The last cumulative list was published in 1893. The four most important of these compilations were those of 1836, 1848, 1868 and 1893. Of the last there is in the archives an annotated copy with many additions and corrections in the hand of Edward J. Nolan, recording secretary. He has there added names which include new members up to 1917.

Roll notes

Master file of all members, 1812-1924, exposures 1-606

A reproduction of the card index file of all known members (some 4800) from the founding of the Academy in 1812 up to 1924, begins the roll. This file has been accumulated over many years. In an endeavor to make it complete and accurate numerous sources have been consulted. These include especially the four printed lists mentioned, the annotated list by Nolan, the minutes of the Academy and records in the member nomination book. For correct spellings, the signatures on letters have been checked. For these reasons the list is the most carefully revised and inclusive yet assembled.

When the information was available, each of the membership cards contains the following information: name; address at time of election, with subsequent changes; by who proposed for membership; whether a regular member or a correspondent; date of election; date of termination of membership by death, resignation or

suspension, and signature (with page given in the Signature Book). Frequently there are biographical notes or a photograph of the member.

Signature books, 1831-1924, exposures 607 to 696

The oldest volume was apparently not started the first year, since the names of Wm. Maclure, Zaccheus Collins, George Ord, Reuben Haines, Edward Barton are to be read along with names of some of the founders. The first 51 pages have no dates or code designations but from 1896 (p. 59) through 1916 certain pertinent information is added. After 1917 members were supplied with printed forms for names as they wished them to appear on certificates. The earlier entries, on the other hand, were in the nature of pledges to uphold the constitution and bylaws.

Roll 37, Nominations for Membership, 1812-1924, 893 exposures

Five lists are photographed from dated ledgers.

- A. 1832-1853. A partial list prepared by the secretary, giving dates and names, but very little other information. Exposures 1-41
- B. 1812-1844. Loose letters, lists or scraps of paper, usually in the hand of one of the sponsors. A few undated ones at the beginning, the majority arranged chronologically. These records had been roughly pasted in a homemade scrapbook of crumbling brown wrapping paper. In the film they are placed three to a frame. Exposures 42-179
- C. 1853-1875. Nominations on printed forms in a ledger printed for the purpose. They are numbered 1 to 1350, four to a page. Exposures 180-501
- D. 1876-1900. Continuation of the above, five forms to a page, numbering 1 to 1013. Exposures 502-703.
- E. 1901-1924. Continuation of the above, numbering 1014 to 1951. Exposures 704-893

Notes: Retakes of exposures 675, 676 and 677 appear at the end of the roll.

Roll 38, Donations to the Academy Museum,
1812-1924, 516 exposures

In January of 1817 Thomas Say prepared a one-page report on the Academy Collections. In it he simply listed museum specimens in various plant and animal categories in such terms as: "numerous preparations," "a large collection," or "a collection of several thousand." This rather casual treatment was later amended.

In the Academy Journal, begun in the same year, there appear detailed lists of "Donations to the Museum," printed in the backs of volumes 1-6 (1817-30). These lists were continued in the Academy Proceedings, begun in 1841. Continuously included in this series through the 1919 volume, they were then transferred to the Annual Report, initiated in 1920. In 1923 and 1924 they were printed in the Year Book.

A card file was prepared from these published lists of museum donations. Cards are filed under the name of the donor. Not all museum material is included in these lists and files, as the Academy has, throughout its existence purchased many important collections.

Citations to the Proceedings are simply to volume and page number, i.e. 4:261, while references to the Journal, 1st ser. are preceded by a small "j," shown as j3:43. Letters in parenthesis refer to categories as follows:

Code to File

- (A) Anthropology, archeology, ethnology
- (B) Birds
- (E) Entomology
- (F) Fish
- (G) Geology & paleontology
- (H) Herpetology
- (Ma) Mammals
- (Mi) Minerals
- (Po) Portraits
- (Pl) Plants
- (S) Shells
- (I) Invertebrates (except insects)
- (M) Misc.

The donation cards, 4026, are arranged eight to an exposure with the following rough index to the beginning frames for each letter of

the alphabet as follows:

A-frame 1-17	M-frame 285-325
B-frame 18-72	N-frame 326-333
C-frame 73-113	O-frame 334-339
D-frame 114-136	P-frame 340-368
E-frame 137-147	Q-frame 369-370
F-frame 148-165	R-frame 371-395
G-frame 166-190	S-frame 396-446
H-frame 191-234	T-frame 447-463
I-frame 235-237	U-frame 464-465
J-frame 238-247	V-frame 466-474
K-frame 248-261	W-frame 475-512
L-frame 262-284	X-Z-frame 513-516

SIGNERS OF CORRESPONDENCE, rolls 10-34

Aaron, (Mrs.) Carrie Baily; Aaron, Eugene Murray; Abadie, E. H.; Abbe, Cleveland; Abbot, Charles Greeley; Abbot, George Maurice; Abbot, George Griffith; Abbot, Henry Larcom; Abbott, Alexander Crever; Abbott, Charles Conrad; Abbott, Francis R.; Abbott, Helen Cecilia DeSilver SEE Michael, Helen Abbott; Abbott, James Francis; Abbott, William Louis; Abert, John James; Abruqueta, Luis de; Academia de ciencias exactas; Academia dei Lincei, Rome; Academia delle Scienze Mediche di Genova; Académie d'Amiens; Académie des Sciences, Art et Belles-Lettres de Dijon; Académie des Sciences, Belles-Lettres et Arts de Rouen; Académie Nationale des Sciences, Belles-Lettres et Arts de Bordeaux; Académie Royale des Sciences et Belles-Lettres de Bruxelles; Accademia Reale delle Scienze di Torino; Adam, C. F.; Adams, Charles; Adams, Charles Baker; Adams, H. F.; Adams, Henry; Adams, William A.; Adams Express Company; Adamson, Charles; Adamson, J. Constantine; Adamson, William S.; Adelaide Philosophical Society; Addis, T. B. M.; Adelung, Nicolas d'; Adler, Cyrus;

Agardh, Charles Adolphus; Agassiz, Alexander; Agassiz, Louis; Agassiz Association; Agassiz Institute; Agri-horticultural Society; Aguillar, Antonio; Ahern, George P.; Ahern, M. E.; Ahlstrand, J. A.; Ahrens, George; Akademiai Nauk, Leningrad; Akhurst, John; Alabama Polytechnic Institute; Alatrisme, S. L.; Aldrich, Truman Hemingway; Alessandrini, Guilio; Alexander, Charles P.; Alexander, Charles W.; Alexander, John J.; Alger, Francis; Allan, George S.; Allen, Albert H.; Allen, Bennet M.; Allen, Ezra; Allen, Glover Morrill; Allen, Harrison; Allen, Joel Asaph; Allen, William F.;

Allen, William H.; Allinson, George Boyd; Allinson, Samuel, Jr.; Allis, Edward Phelps, Jr.; Allport, Hobart; Almroth, Nils Wilhelm; Altanas, John; Alvarez, M. V.; Alvord, Henry E.;

Ambrosi, A.; American Academy of Arts and Sciences; American Anthropological Association; American Asiatic Association; American Consular Service, Great Britain; American Geographical Society of New York; American Geologist; American Museum of Natural History; American News Company; American Pharmaceutical Association; American Philosophical Society; Ames, Alice; Ames, J. G.; Ameghino, Florentino; Amilon, Ella P.; Amissah, R. K., Jr.;

Anders, James M.; Anderson, A. E.; Anderson, E. H.; Anderson, John R.; Anderson, Joseph W.; Anderson, M. B.; Anderson, William; Anderson, William Downs; Andersson, Aksel; André, Ernest; [André, Eugene]; Andrews, Avery D.; Andrews, Clement W.; Andrews, E. A.; Andrews, George; Andrews, Roy Chapman; Andrews Manufacturing Company; Agnell, G. W. J.; Antheaume, Louis; Anthony, Edward; Anthony, Harvey Mitchell; Anthony, John Gould; Ape, Edwin C.; Appleton, D. & Company; Archambault, A. M.; Arctowska, Jane; Arendts, Carl; Armistead, W. J.; Armor, W. C.; Arms, Jennie Maria; Armstrong, Irvin; Arnold, Crawford; Arnold, Edward; Arnold, James G.; Arnold, James N.; Arnold, Joseph A.; Arnold, Ralph; Arnold, S. B.; Arnott, S.; Arnoult, Eugene; Arriaga, José Joaquin; Arschagouni, John; Arthur, Joseph Charles;

Ashburner, Charles A.; Ashe, William Willard; Asher & Co.; Ashhurst, Astley P. C.; Ashhurst, Francis; Ashhurst, John, Jr.; Ashhurst, R. L.; Ashhurst, Richard; Ashhurst, Samuel; Ashley, George H.; Ashmead, Samuel; Ashmore, Laura; Ashton, Thomas G.; Ashworth, J. H.; Ashworth, J. R.; Asiatic Society of Bengal; Askew & Odenheimer; Aspinwall, John; [Association Française pour l'Avancement des Sciences]; [Astier, Alfred]; Astor Library;

Athenaeum of Minneapolis; Athenaeum of Philadelphia; Atkinson, A. M.; Atkinson, Edward C.; Atkinson, George F.; Atkinson, William B.; Atlee, Walter F.; Auber, Pierre Alexandre; Auchincloss, William S.; Audubon, Victor G.; Aufour-Vernes, Louis; Augstrom, And. Jon.; Augustinian College of St. Thomas of Villanova; Austin, Coe Finch; Austin, George Lowell; Austin, J. H.; Austin, O. P.; Austin, Willard; Australia. Dept. of Mines and Water Supply; Austro-Hungarian Consulate; Autran, Eug.; Avebury, John Lubbock; Averell, William D.; Avil Printing Co., Philadelphia; Ayers, Howard; Ayres, William; Ayres, William M.; Ayres, William O.;

B., J. L.; Babb, Cyrus C.; Bache, Alexander Dallas; Bache, Franklin; Backhouse, James; Bacon, William H.; Baer, Joseph & Company; Baer, O. P.; Bagge, Harald; Bailey, Anne; Bailey, H. B.; Bailey, H. D.; Bailey, Jacob Whitman; Bailey, Liberty Hyde; Bailey, S. C. H.; Bailliére Bros.; Baily, Joshua Longstreth, Jr.; Bains, Arthur A.; Baird, Henry Carey; Baird, Lucy H.; Baird, Spencer Fullerton; Baird, William; Baiza, E. A.; Bakala, Ferdinand; Baker, A. B.; Baker, Charles E.; Baker, Charlotte A.; Baker, Elizabeth; Baker, Frank C.; Baker, Fred; Baker, George C.; Baker, George Fales; [Baker, O. E.]; Baker, Washington H.; Baker & Taylor Company;

Balch, Edwin Swift; Balch, Francis M.; Balchelder, Charles F.; Baldamus, E.; Balderston, C. C.; Baldwin, A. G.; Baldwin, Austin; Baldwin, Samuel Prentiss; Balfour, Isaac B.; Balfour, H. Hutton; Balfour Laboratory; Ball, John; Ball, Michael Valentine; Ballantyne, William & Sons; Ballard, Harlan H.; Baltzer, A.; Bancroft, Edward; Bancroft, George; Banes, Warner J.; Bangs, Outram; Bangs & Company; Banks, Nathan; Barabino, Joseph; Barber, Edwin Atlee; Barber, Henry A.; Barbier, Mr.; Barbosa du Bocage, José Vicente; Barbour, Erwin Hinckley; Barbour, Thomas; Barcelona. Junta de Ciencias Naturals; Barcena, Mariano; Barclay, J. Judson; Barclay, R. D.; Bardeleben, Karl; Barker, George Frederick; Barker, Whar-ton; Barnard, James M.; Barnard, W. C.;

Barnes, G. W.; Barnes, Oliver W.; Barnes, P. T.; Barnes, William; Barnett, C. R.; Barnett, Thomas; Barney, John; Barnum, Thomas R.; Baroni, Eugenio; Barrande, Joachim; Barratt, John Perkins; Barrelle, L. M.; Barrett, Edward; Barringer, Daniel Moreau; Barris, W. H.; Barrois, Charles; Barron, L. Hernandez; Barrow, W. Bruce; Barrows, W. E.; Barrows, Walter L.; Barrows, William Morton; Barry, A. Constantine; Bartlett, A. W.; Barton, Edward; Barton, Susan Rhea; Barton, William Paul Crillon; Bar-tram, Edwin D.; Bascom, Florence; Bascom, James F.; Bass, John M.; Bass, (Mrs.) R. P.; Bassett, D. A.; Bassett, Ebenezer D.; Bassett, Homer Franklin; Bassini, F. R.; Bastian, H. Charlton; Bastian, J.; Bataviaasch Genootschap; Bataasch Genootschap, Rotterdam; Batchelder, Charles Foster; Bateman, Lee Latrobe; Bates, A. E.; Bates, George A.; Bates, Henry Walter; Bates, John; [Bather, F. A.]; Battles, Frank; Batz, William De; Baudon, A.; Baudouir, Marcel; Baudry et Cie.; Baumgarten, A.; Baumgartner, Andreas; Baur, George; Baxter, Henry F.; Baxter, J.; Baxter, J. H.; Bayer. Oberbergamt. Geonostische Abteilung; Bayerische Akademie der Wissenschaften; Bayerische Botanische Gesellschaft; Baylina, Ignacio Ribera; Bayne, J. L. H.;

Beachler, Charles S.; Beadle, E. R.; Beadle, Heber H.; Beale, J. F.; Beale, Lionel S.; Beamer, Fred M.; Bean, B. A.; Beard, J. C.; Beates, Henry, Jr.; Beath, Robert B.; Beaugrand, C. H.; Beaumont, Elie de; Beaver, James A.; Bebb, M. S.; Bechler, W. H.; Bechtinger, Joseph; Beck, Charles F.; Beck, John C.; Beck, Lewis C.; Beck (Mrs.) Sarah R. G.; Beck, Theodore Romeyn; Becker, I. T.; Beckmore, A. S.; Beclard, Ferdinand; Beddome, C. E.; Bedot, Maurice;

Beebe, C. William; Beebe, Edward H.; Beebe, William; Beebe, William L.; Beekley, William M.; Beeman, T. W.; Beer, William; Belfast Natural History and Philosophical Society; Belfast Naturalists' Field Club; Belfield, T. Broom; Belgium. Commission de la Carte Géologique; Belhatte, C.; Belhomme, Mr. (of Metz); Bell, J. Frank; Bell, John; Bell, Mary; Bell, Robert; Bell, S. M.; Bell, Samuel D.; Bell, Thomas; Bellingeri, C. F.; Bellotti, Christopher; Bellows, Horace M.; Belt, Thomas; Beman, I. L.; Bement, Clarence S.;

Benade, William H.; Bender, Charles J.; Beneden, Edouard van; Benedict, George W.; Benedict, James E.; Bengal Meteorological Committee; Benge, Elmer; Benjamin, D.; Benjamin, Marcus; Ben-
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