213
ANNUAL

OF THE

BOSTON SOCIETY OF NATURAL HISTORY

1868-69.

I

PREPARED BY THE RECORDING SECRETARY.

FROM AMNH
WITHDRAWN

BOSTON:
PUBLISHED BY THE SOCIETY.
1868.

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1868.

PUBLISHING COMMITTEE.

JEFFRIES WYMAN.

SAMUEL H. SCUDDER.

SAMUEL L. ABBOT.

WILLIAM T. BRIGHAM.

THEODORE LYMAN.

PRESS OF ABNER A. KINGMAN.

MUSEUM OF THE BOSTON SOCIETY OF NATURAL HISTORY,
BERKELEY STREET.

570.6
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1868/69

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LIST OF OFFICERS FOR 1868-69.

President,

JEFFRIES WYMAN, M.D.

Vice Presidents,

C. T. JACKSON, M.D.

THOMAS T. BOUVÉ.

Corresponding Secretary,

SAMUEL L. ABBOT, M.D.

Recording Secretary,

SAMUEL H. SCUDDER.

Treasurer,

EDWARD PICKERING.

Librarian,

SAMUEL H. SCUDDER.

Custodian,

SAMUEL H. SCUDDER.

Curators (arranged in accordance with their length of service).

THOMAS T. BOUVÉ,

Minerals.

THOMAS M. BREWER, M.D.,

Birds (Nests and Eggs).

Mammals and Comp. Anat.

SAMUEL H. SCUDDER,

Insects.

FREDERIC W. PUTNAM,

Fishes.

B. JOY JEFFRIES, M.D.,

Microscopy.

ALPHEUS HYATT,

Palæontology.

A. S. PACKARD, Jr., M.D.,

Crustaceans.

ADDISON E. VERRILL,

Radiates.

HORACE MANN,

Botany.

BURT G. WILDER, M.D.,

Reptiles.

WILLIAM T. BRIGHAM,

Geology.

J. ELLIOT CABOT,

Birds.

EDWARD S. MORSE

Mollusks.

ACT OF INCORPORATION.

Commonwealth of Massachusetts.

In the year of our Lord one thousand eight hundred and thirty-one.

An Act to incorporate the BOSTON SOCIETY OF NATURAL HISTORY.

SECTION 1. *Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same :—*

That Benjamin D. Greene, George Hayward, John Ware, Walter Channing, Edward Brooks, Amos Binney, Jr., D. Humphreys Storer, Simon E. Greene, Joshua B. Flint, William Grigg, George B. Emerson and Henry Codman, with their associates, and such other persons as shall from time to time be duly admitted members of the Corporation hereby created, be, and they hereby are constituted a body corporate and politic, by the name of the BOSTON SOCIETY OF NATURAL HISTORY, and by that name they shall have perpetual succession, and shall be capable of suing and being sued, of prosecuting and defending unto final judgment, in all Courts and places whatsoever, and may have a Common Seal, with power to change the same at pleasure.

SECT. 2. *Be it further enacted, That the said Society shall have power to hold real or personal estate by gift, grant, devise,*

or otherwise, and the same or any part thereof to alien or convey, provided that the clear annual income of such personal and real estate shall not exceed the sum of three thousand dollars, nor be applied to any other purposes than the encouragement and promotion of the science of Natural History.

SECT. 3. *Be it further enacted*, That said Society shall have power to elect a President and all other necessary officers; to make rules and by-laws for the election and government of its members, for the management of its property, for collecting annual contributions from its members, for regulating the times and places of meeting, for expelling such members as refuse to comply with the by-laws or regulations, and for the managing of the affairs of the Society, provided such rules and by-laws be not repugnant to the Constitution and Laws of this Commonwealth, or of the United States.

SECT. 4. *Be it further enacted*, That the persons herein before named, or any three of them, shall have power to call the first meeting of the members of said Society, in such manner as they may think proper.

SECT. 5. *Be it further enacted*, That this Act may be altered, amended, or repealed, at the pleasure of the Legislature.

In House of Representatives, February 23, 1831, passed to be enacted.

WILLIAM B. CALHOUN, *Speaker.*

In Senate, February 24, 1831, passed to be enacted.

SAM'L LATHROP, *President.*

FEBRUARY 25, 1831.

Approved,

LEVI LINCOLN.

A Copy of the Original Act,

Attest,

EDWARD D. BANGS,
Secretary of the Commonwealth

An Act to authorize the BOSTON SOCIETY OF NATURAL HISTORY to amend its Constitution.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:—

The BOSTON SOCIETY OF NATURAL HISTORY is hereby authorized and empowered to amend the eighth article of its Constitution, by inserting after the word "members," in the third line of the printed copy thereof, the following words: "present at any two consecutive meetings of the Society, the members having been first duly notified of any proposed alteration."

[Approved by the Governor, April 3, 1852.]

An Act concerning the BOSTON SOCIETY OF NATURAL HISTORY.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:—

SECTION 1. The BOSTON SOCIETY OF NATURAL HISTORY shall have power to hold real and personal estate, the clear annual income whereof shall not exceed the sum of ten thousand dollars, nor be applied to any other purposes than the encouragement and promotion of the science of Natural History.

SECT. 2. This act shall take effect upon its passage.

[Approved by the Governor, March 21, 1861.]

An Act in addition to an Act to incorporate the BOSTON SOCIETY OF NATURAL HISTORY.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:—

SECTION 1. The BOSTON SOCIETY OF NATURAL HISTORY shall have power to hold real and personal estate, the clear annual income whereof shall not exceed the sum of twenty thousand dollars, to be applied exclusively to the purpose set forth in the act of incorporation of said society.

SECT. 2. This act shall take effect upon its passage.

[Approved by the Governor; May 5, 1865.]

An Act to incorporate the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, for the promotion of Arts, and Industrial Sciences, Agriculture, Manufactures and Commerce, and to grant aid to said Institute and to the BOSTON SOCIETY OF NATURAL HISTORY.

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:—

SECTIONS 1 and 2 refer to the MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

SECT. 3. One certain square of State land on the Back Bay, namely, the second square westwardly from the Public Garden, between Newbury and Boylston Streets, according to the plan reported by the commissioners on the Back Bay, February

twenty-one, eighteen hundred and fifty-seven, shall be reserved from sale forever, and kept as an open space, or for the use of such educational institutions of science and art as are hereinafter provided for.

SECT. 4 refers to the MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

SECT. 5. The BOSTON SOCIETY OF NATURAL HISTORY shall be entitled to hold, occupy and control, for the objects and purposes for which said Society was incorporated, and which are more fully set forth in its constitution and by-laws, the easterly portion of said second square, to the extent of one-third part thereof: *provided*, that the said Society shall, within two years from the time when said portion of land is placed at its disposal for occupation, filled and graded, erect a building suitable to said objects and purposes, and appropriately enclose, plant and adorn the open ground around said building, and shall thereafter keep said grounds and building in a neat and ornamental condition.

SECT. 6. The rights and privileges given in the last two sections are granted, subject to these further conditions following, namely: All buildings whatsoever, which may be erected by either of the herein named institutions upon any portion of said square, shall be designed and completed, the grounds surrounding said buildings enclosed, laid out and ornamented, and the said buildings and grounds kept and maintained in a manner satisfactory to the governor and council; and, in case either of the said institutions shall, after due notice given, neglect to comply with the requirements of this section, or fail to use its portion of said square, or at any time appropriate said portion, or any part thereof, to any purpose or use foreign to its legitimate objects, then the right of said delinquent institution to the use,

occupation or control of its portion of said square shall cease, and the Commonwealth, by its proper officers and agents, shall have the right forthwith to enter and take possession of the portion of land so forfeited.

SECT. 7. The above named Societies shall not cover with their buildings more than one-third of the area granted to them respectively.

SECT. 8. The commissioners on the Back Bay are hereby instructed to reserve from sale the lots fronting on said square on Boylston and Newbury Streets, until said Societies shall, by enclosure and improvements, put said square in a sightly and attractive condition.

SECT. 9. Upon the passage of this act, the Governor, with the advice and consent of the Council, shall appoint three disinterested persons, who shall appraise the value of all the land specified in the third and eighth sections, and make a return of said appraisal, and if, when the lands mentioned in section eighth shall have been sold, the proceeds of such sales shall not be equal to the whole amount of the appraisal above mentioned, then the Societies named in this act shall pay the amount of said deficit into the Treasury of the Commonwealth for the school fund, in proportion to the area granted to them respectively.

SECT. 10. This act shall be null and void, unless its provisions shall be accepted within one year by the MASSACHUSETTS INSTITUTE OF TECHNOLOGY and the BOSTON SOCIETY OF NATURAL HISTORY, so far as they apply to those Societies respectively.

[Approved by the Governor, April 10, 1861.]

An Act to repeal Sections 8 and 9 of the "Act to incorporate the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, and to grant aid to said institution, and to the BOSTON SOCIETY OF NATURAL HISTORY."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:—

Sections eight and nine of Chapter one hundred and eighty-three of the Acts of the year 1861, entitled "An act to incorporate the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, and to grant aid to said institution, and to the BOSTON SOCIETY OF NATURAL HISTORY" are hereby repealed.

[Approved by the Governor, April 29, 1863.]

CONSTITUTION AND BY-LAWS
OF THE
BOSTON SOCIETY OF NATURAL HISTORY.

CONSTITUTION.

ARTICLE I.

The Society shall be called the BOSTON SOCIETY OF NATURAL HISTORY.

ARTICLE II.

It shall consist of Resident Members, Corresponding and Honorary Members, and Patrons.

ARTICLE III.

All Members shall be chosen by ballot, after having been nominated at a preceding meeting; the affirmative votes of three-fourths of the members present shall be necessary to a choice. The nomination of Corresponding and Honorary Members shall proceed from the Council. Any person who shall contribute, at one time, to the funds of the Society, a sum not less than one hundred dollars, shall be a Patron. Any Resident Member who shall, at one time, contribute one hundred dollars

to the funds of the Society, shall be considered a Life Member, free from assessment.

ARTICLE IV.

Resident Members only shall be entitled to vote, to hold office, or to transact business; Corresponding and Honorary Members and Patrons may attend the meetings and take part in the scientific discussions of the Society.

ARTICLE V.

The officers of the Society shall be a President; two Vice Presidents; a Corresponding Secretary; a Recording Secretary; a Treasurer; a Librarian; a Custodian; and Curators; who, together, shall form a Board for the management of the concerns of the Society, and be called the Council.

ARTICLE VI.

Officers shall be chosen by ballot, and a majority of votes shall be sufficient for a choice.

ARTICLE VII.

By-Laws, for the more particular regulation of the Society, shall from time to time be made.

ARTICLE VIII.

This Constitution may be altered or amended in any of the preceding Articles, by a vote to that effect, of three-fourths of the members present at any two consecutive meetings of the Society; the members having been first duly notified of any proposed alteration: but the Article which immediately follows this shall be unalterable.

ARTICLE IX.

The consent of every member shall be necessary to a dissolution of the Society. In case of a dissolution, the property of the Society shall not be distributed among the members, but donors may claim and receive such donations as they have made to the museum, and the remainder shall be given to some public institution, on such conditions as may then be agreed on; and the faithful performance of such conditions shall be secured by bonds, with sufficient penalties for the non-fulfilment thereof.

BY-LAWS.

SECTION I. OF MEMBERS.

ARTICLE 1. Any person of respectable character and attainments, residing in the City of Boston, or its immediate neighborhood, shall be eligible as a Resident Member of this Society. Elections shall be held at the first meeting in the months of January, April, July and October. Nominations must be made in writing, by three members, at least one month previous to the time of elections; such nominations shall be made to a Committee consisting of the President, Recording Secretary and Treasurer, who shall report upon the same at the meeting previous to that upon which elections are to be held. Every person elected shall, within six months from the date of his election, pay into the Treasury an initiation fee of five dollars, and subscribe an obligation, promising to conform to the Constitution and By-Laws.

of the Society; and until these conditions are fulfilled, he shall possess none of the rights of membership, nor shall his name be borne upon the roll of members.

ART. 2. Corresponding Members shall consist of persons, residing at a distance from the City, who may be interested in the study of Natural History, or desirous of promoting the interests of the Society. Honorary Members may be selected from persons eminent for their attainments in science, on whom the Society may wish to confer a compliment of respect. Neither shall be required to pay an initiation fee or other contribution.

ART. 3. Persons who have been unsuccessful candidates for admission shall not be again proposed as members until after one year.

ART. 4. Any member may withdraw from the Society, by giving written notice of his intention, and paying all arrearages due from him. Any member who shall refuse to pay any due for two successive years, shall be subject to expulsion, and shall be reported to the Society by the Treasurer.

ART. 5. Members may be expelled from the Society by a vote of three-fourths of the members present, at a meeting specially called for that purpose, by a notice given at least one month previous.

SECTION II OF OFFICERS AND THEIR DUTIES.

ARTICLE 1. The President shall preside at meetings of the Society and of the Council; shall preserve order, regulate debates, and conduct all business proceedings.

ART. 2. The Vice Presidents shall perform the duties of President in his absence, in the order of seniority in office.

ART. 3. The Corresponding Secretary shall conduct the correspondence of the Society, and keep a record thereof; shall keep the common seal; acknowledge all donations; notify Corresponding Members of their election; and receive and read to the Society all communications which may be addressed to him.

ART. 4. The Recording Secretary shall take and preserve correct minutes of the proceedings of the Society and Council, in books to be kept for that purpose; shall have the charge of all records belonging to the Society; shall notify Resident Members of their election and committees of their appointment; shall call special meetings when directed by the President; and shall notify Resident Members of all meetings, and officers of all matters which shall occur at any meeting requiring their action.

ART. 5. The Treasurer shall have charge of all money and other property of the Society, excepting the building on Berkeley Street, and its contents, and excepting also such property as may be placed by the Council in the hands of Trustees; shall collect all fees and assessments and receive all donations in money which may be made to it; shall pay all accounts against the Society, when the same shall be approved by a vote of the Council; shall keep a correct account of all receipts and expenditures in books belonging to the Society, and shall, at each annual meeting, and at other times when required by the Council, make a detailed report of the same.

ART. 6. The Librarian shall have charge of the books belonging to the Society, or deposited for its use, and of the publications of the Society. He shall observe and enforce such regulations as the Council shall from time to time make for the use of the books.

ART. 7. The Custodian shall be a person of acknowledged scientific attainments. He shall have general charge of the building and its contents; shall have free access to all the collections at all times; and shall act in concert with the Curators, to whom he shall bear the relation of adviser and assistant. In case of the absence or neglect of Curators, he shall act in their stead, and perform their duties. He shall prepare and read at the annual meeting a report of the state of the museum, compiled from the special report made to him by the Curators. He shall keep a book to be called the Donation Book, in which shall be recorded, under their respective departments, all donations to the museum, with the date and name of donor. And he shall perform such other duties as may be prescribed by the Council and mutually assented to.

ART. 8. The Curators shall be entrusted with the care of the museum. They shall, as soon as possible after a donation is made or specimens received, deposit them in their respective cabinets. Each Curator shall have his particular department allotted to him at the time of his election; shall arrange the specimens in that department according to some system approved by the Custodian; and, so far as is practicable, label them with the names they bear in such system. He shall also, as far as is practicable, keep a correct catalogue of articles in his care, and shall be authorized to select duplicate specimens from the cabinet, and, with the assent of the Custodian, effect exchanges therewith. Each Curator shall make a written report to the Custodian, a month previous to the annual meeting, concerning the collection under his charge: the additions made during the year, and the important deficiencies which exist.

ART. 9. The Council shall control all expenditure of money, make rules for the use of the library and museum, and special rules for the direction of the Librarian and Custodian, and shall elect, annually, a committee of five members, to be called the Publishing Committee. The Council shall have full power to act, for the interests of the Society, in any way not inconsistent with the Constitution and By-Laws.

ART. 10. The Council shall annually appoint three Trustees, one of whom shall be the Treasurer *ex officio*, to whose charge shall be entrusted all the funded property of the Society, with power to sell and reinvest, according to their judgment.

SECTION III. OF ASSESSMENTS.

ARTICLE 1. Every Resident member shall be subject to an annual assessment of five dollars, payable on the first day of October in each year: but no assessment shall be required of any member during the six months succeeding his election.

ART. 2. The President and Treasurer shall be empowered to exempt (*sub silentio*) a member from assessment when, from peculiar circumstances, they may deem it for the interest of the Society so to do.

SECTION IV. OF THE LIBRARY.

ARTICLE 1. Members and Patrons of the Society only shall have access to, or take books from the Library; but the Council may, by special vote, extend the use of books to others than members, specifying the conditions under which they may be taken.

ART. 2. The rules and regulations of the Council for the use of the Library shall be printed and exposed in the Library rooms, and a digest of them affixed to the volumes themselves.

SECTION V. OF THE MUSEUM.

ARTICLE 1. Members of all classes, and the public generally, shall have access to the museum at such times as the Council shall determine.

ART. 2. No specimens shall be removed from the museum, without the leave of the Custodian and the Curator of the department to which they belong, who shall take a receipt for the same, and be responsible for their restoration in good order.

SECTION VI. OF COMMITTEES.

ARTICLE 1. The Committee of Publications shall, from time to time, cause to be published, and superintend the publication of, such papers read to the Society, and such portions of the records of the Proceedings, as may seem to them calculated to promote the interests of science, so far as the funds appropriated by the Council shall permit, it being understood that the Committee shall not be held responsible for any opinion expressed in said publications. The said Committee shall also have authority to effect exchanges for other scientific publications.

ART. 2. The Council shall, previously to every annual meeting, appoint a Committee, whose duty it shall be to audit the accounts of receipts and expenditures of the Corporation.

SECTION VII. OF LECTURES.

ARTICLE 1. Public lectures, when judged expedient by the Council, may be given under the auspices of the Society.

SECTION VIII. OF MEETINGS.

ARTICLE 1. A meeting shall be held on the first Wednesday May annually, for the choice of officers and other general in purposes. At this meeting an annual report, embodying the several reports of the Curators and Librarian, shall be read by the Custodian; and a report on the state of the funds by the Treasurer, who shall also present an estimate of the necessary expenses of the ensuing year.

ART. 2. Stated meetings of the Society shall be held on the first and third Wednesday of every month; unless when suspended by a vote of the Society.

ART. 3. Fifteen members shall form a quorum for business.

ART. 4. The order of proceeding at meetings shall be as follows:—

1. Record of preceding meeting read.
2. Candidates for membership proposed.
3. Balloting for members.
4. Written communications read.
5. Verbal communications made.
6. Business called up by special resolutions, or otherwise.
7. Donations announced.
8. Adjournment.

SECTION IX. CHANGE OF BY-LAWS.

ARTICLE 1. The By-Laws of the Society may be altered or amended by a majority vote of the members present at any meeting: provided that the members of the Society shall have been duly notified, two weeks previous, of an intended change.

LIBRARY REGULATIONS.

1. The Library shall be open for the use of books and their delivery and return from 10 A. M. to 1 P. M., and from 2 P. M. to 5 P. M.

2. No books shall be taken from the Library without the knowledge and record of the Librarian; except by members of the Council, who shall record them in the same manner as the Librarian. Curators may, for purposes of study, remove any book from the Library to the apartments in which their collections are kept; but in taking books out of the museum they shall observe the same rules as other members.

3. The Librarian shall have discretionary power to admit strangers who may desire to consult the Library during his hours of attendance, and to allow of the examination of the books under his supervision.

4. No person shall be allowed to retain more than five volumes at any one time, except by special vote of the Council.

5. Books may be kept out one calendar month, unless sooner called in by the Librarian; but no longer, without renewal, and renewal may not be granted more than twice; after which the book may not be taken out again by the same person until three days after its return.

6. If books are not returned within the time specified, a written notice of delinquency shall be sent by the Librarian. If not then returned within a week after the date of notice, a fine of

five cents per day for every volume not returned shall be incurred, and a second notice then sent. If still further delinquent, the Librarian shall notify the Council of said delinquency.

7. Should any person desire to borrow a book which is lent out of the Library, he may leave his name and the title of the book with the Librarian. When the book shall be returned, the Librarian shall reserve it for the person so applying, provided the latter call for it within three days.

8. When call is made for any book which is lent, the Librarian may demand its return by regular printed form of notice after the expiration of ten days from the date of borrowing.

9. Each book shall be placed in one of three classes, designated by the Council, viz.: (a) those which are on no account to be removed from the Library; (b) those which may be removed only by the permission of the Librarian and two members of the Council; (c) those which may be lent without restriction. Books of the first two classes shall have a label attached to the inside of the cover, designating their class.

10. All books must be returned to the Library at least two weeks previous to the Annual Meeting; and seasonable notice of the time of returning them shall be given by the Librarian.

11. Every book shall be returned in good order, regard being had to its necessary wear with good usage. If any book shall be lost or injured, the person to whom it stands charged shall replace it by a new volume or set, if it belong to a set, or pay the value of the volume or set to the Librarian: the value being fixed by the Council. And thereupon the remainder of the set, if the volume belong to a set, shall be delivered to the person so paying for the same:—every book detained above a year being held to be lost.

12. Periodical publications, both literary and scientific, shall not be taken from the Library until two weeks after they have been placed upon the shelves or table.

13. Books may be deposited in the Library for the use of the Society; but said books shall not be taken from the Library without the consent of the owners.

S K E T C H
OF THE
HISTORY AND PRESENT OPERATIONS
OF THE SOCIETY.

It is only within the last sixty years that the science of Natural History has received the advantage of systematic and organized inquiry in this State. On the eighth of December, 1814, an Association calling itself "The New England Society for the Promotion of Natural History," held its first meeting at the house of Dr. Jacob Bigelow. Drs. Bigelow and Hayward and Mr. Octavius Pickering were chosen a committee to frame a constitution, which was drawn up and adopted in the course of a few days. Meetings were held weekly on Saturday evenings in the hall over Boylston Market. The members were divided into six classes; viz., for minerals, plants, quadrupeds and birds, fishes and reptiles, insects and "vermes." Hon. John Davis was chosen President; William S. Shaw, Vice President; Jacob Bigelow, Corresponding Secretary; George Hay-

ward, Recording Secretary ; Octavius Pickering, Treasurer ; John W. Webster, Cabinet Keeper.

The name of the Society did not prove satisfactory and it was changed in January, 1815, to "The Linnæan Society of New England." The first paper, read by Mr. J. Freeman Dana, was entitled "An analysis of the Incrustation formed upon the basket of eggs from Derbyshire, England, presented by Judge Davis."

In June, 1817, a special meeting was held to listen to an address from Dr. Walter Channing upon "The importance of literature and science, particularly to the inhabitants of New England." The claims of the Society to public patronage were urged with great force and ingenuity, and the rapid increase and value of the Museum set forth. The interest excited at this meeting encouraged the members to believe that the public would patronize their institution ; but although the few men who composed the active members labored zealously, they received little sympathy from without, and with the address of Dr. Channing the success of the Society appears to have culminated.

Early in 1818 a proposition was made to unite with the Boston Athenæum or to adopt some other course for the preservation of the cabinet. No active steps were taken in the matter, the meetings were held with much irregularity, and in July, 1822, a committee appointed by the Society reported, as follows : — "It appears by the resignation and non-attendance of members that it has

become burdensome to support the meetings and collections in the manner that has hitherto been done; therefore it is expedient to suspend the meetings, give up the rooms of the Society, and place the collection or such part of it as can be preserved, in some place where it may occasion no further expense to the Society or its contributors."

The Society was thus dissolved and its collections—at first deposited with Harvard College—were afterwards scattered in various directions, and, a few, finally collected in the museum of the present Society.

Not disheartened by the results of former efforts, some of the more zealous of the members, aided by new associates, undertook to re-organize. After several preliminary consultations,¹ a meeting was called on the 28th of April, 1830, at which Dr. Walter Channing was chosen Moderator, and Theophilus Parsons, Esq., Secretary. They resolved to form a new Association under the name of the "Boston Society of Natural History." On the 6th of May a constitution and by-laws were adopted, and, on the 13th of the same month, officers were chosen. An act of incorporation, obtained at the next session of the Legislature, bears date February 25th, 1831.

In the formation of the new Society, two objects were kept in view—the coöperation of its members

¹ One of these was held at the house of Dr. Walter Channing, and "the members just filled the parlour sofa."

in facilitating the pursuit of natural history, and the collection of a cabinet and library. Its founders did indeed hope to awaken an interest among their fellow citizens, and so extend the usefulness of the institution; but the members were mostly young men, and with the failures of the old Society the public had grown distrustful.

One of the original members, recalling in after years the success of the undertaking, wrote thus of the difficulties encountered: "At the time of the establishment of the Society there was not, I believe, in New England, an institution devoted to the study of natural history. There was not a college in New England, excepting Yale, where philosophical geology of the modern school was taught. There was not a work extant by a New England author which presumed to grasp the geological structure of any portion of our territory of greater extent than a county. There was not in existence a bare catalogue, to say nothing of a general history, of the animals of Massachusetts, of any class. There was not within our borders a single museum of natural history founded according to the requirements and based upon the system of modern science, nor a single journal advocating exclusively its interests.

"We were dependent chiefly upon books and authors foreign to New England for our knowledge of our own zoölogy. There was no one among us who had any thing like a general knowledge of the birds which fly

about us, of the fishes which fill our waters, or of the lower tribes of animals that swarm both in air and in sea.

"Some few individuals there were, who were distinguished by high attainments in particular branches, and who formed honorable exceptions to the indifference which prevailed; but there was no concentration of opinions or of knowledge, and no means of knowing how much or how little was known. The laborer in natural history worked alone, without aid or encouragement from others engaged in the same pursuits, and without the approbation of the public mind, which regarded them as busy triflers."

The Presidency of the new Society was first offered to Mr. Thomas Nuttall, the well-known botanist and ornithologist; but as he was only a transient resident of Boston, he declined the office. The names of subsequent officers will be found in the list on page 49.

The regular meetings were at first held, monthly, in one of the rooms of the old Athenæum Building in Pearl Street; but since August, 1833, when the collections were removed to the third story of the building of the Provident Institution for Savings in Tremont Street, now occupied by the Massachusetts Historical Society, they have been held (except in summer) twice a month.

At the early meetings of the Society, it was customary to refer every donation, whether to the museum or library, to some member, who should make it the

basis of an essay. In this way, many were induced to engage in some scientific inquiry, which otherwise they would never have undertaken. On other occasions, for several consecutive months, a number of short popular lectures were given and the public invited to attend.

There seems to have been no lack of zeal or interest among its members; yet the heavy expense attending the formation of a cabinet, and the attempt to establish a scientific journal, when natural history was not so popular as now, weighed heavily upon the Association. From its birth it was burdened with a debt which could not be shaken off, notwithstanding a five years' subsidy of three hundred dollars per annum granted by the State in 1835. Not until 1841 was the Treasury reported solvent.

The Society was indebted for its first permanent endowment to the generosity of Mr. Ambrose S. Curtis, a merchant, comparatively little known among scientific men, who by diligence and prudence had been enabled to retire early in life with a competence. While in Europe in 1834, he first evinced his regard for the Society by the donation of a solar microscope, with an achromatic lens, made by Dolland, of London. Soon afterwards he forwarded a copy of his will, by which he bequeathed to the Society several sums for specific purposes—amounting in all to fifteen thousand dollars—and an order for the immediate payment of a

part, lest his intentions should be defeated. Two thousand dollars were received by the Society; but the money was unfortunately lost, by the failure of the bank in which it was deposited, before it became available. Mr. Courtis died while abroad, in 1838. In his last will he not only confirmed his previous bequests to the Society, but made it his residuary legatee. The legacies, however, were accompanied by embarrassing conditions, which forbade their direct application to the use of the Society for a long period of years. Permission was therefore obtained from the Legislature of the State, to which the legacies reverted in case they were not accepted, to compromise with the heirs at law, and in 1840, ten thousand dollars were received by the Society for its immediate and unconditional use.

In the same year, Mr. Simon E. Greene, a former treasurer of the Society, bequeathed a small collection of books and specimens, and five hundred dollars in money. Other members of the Society have shown an equal interest in its success, if not by the gift or bequest of large sums of money, at least by their personal, unremitted and unrequited service, in times when the pecuniary condition of the Society forbade the employment even of unskilled labor for the ordinary drudgery of a museum. In its later days of increased prosperity, the Society will not forget the names nor the services of Drs. S. L. Abbot, W. O. Ayres, John Bacon, Amos Binney, T. M. Brewer, H. Bryant, W. I. Burnett,

S. Cabot, Martin Gay, A. A. Gould, T. W. Harris, A. A. Hayes, E. Howe, C. T. Jackson, J. B. S. Jackson, S. Kneeland, W. Lewis, N. B. Shurtleff, William Stimpson, D. H. Storer, H. R. Storer, J. C. Warren, J. C. White and Jeffries Wyman, of Messrs. F. Alger, T. T. Bouvé, C. K. Dillaway, G. B. Emerson, C. J. Sprague and J. E. Teschemacher, nor of others whose names, unknown to scientific fame, are frequently seen in its records, and through whose efficient aid the public interest in the Society was not suffered to fail.

In 1847, the Society was forced to remove again, having outgrown its apartments on Tremont Street. The importance of possessing a building exclusively devoted to its use was so great, and the claims of the Association were so generally acknowledged, that a subscription fund was started and nearly thirty thousand dollars obtained; with this sum the old Medical College in Mason Street was purchased and fitted up, and the first meeting held there January 5th, 1848. From this time the Society increased rapidly in numbers and influence, although it received no important bequests for nearly fifteen years. In 1861, ten thousand dollars were received through the bequest of Mr. Jonathan Phillips, and at about the same time Dr. William J. Walker commenced his series of gifts, which culminated in the munificent bequest which now forms the permanent strength of the Society. The collections had again spread beyond their limits, and the

Society was taking active steps for a new appeal to the public, when this assistance secured to it the building fund that was needed, and a share in the public interest that has never been withdrawn. Dr. Walker offered twenty thousand dollars (provided the Society would raise an equal amount), and presented a large dwelling house, where meetings could be held and the library and collections temporarily stored.

Already the new land which the State was adding to the western part of the city had suggested itself as a suitable location wherein to centralize the institutions which fostered the sciences and arts. These institutions were associated through a committee of public spirited citizens, who had memorialized the Legislature for grants of land in the new district, but without success; not disheartened, they matured their plans more fully, and by the aid of a public interest, which they themselves created, and by an enthusiastic perseverance, which forced its way through every obstacle, they finally obtained, with certain objectionable provisions, a grant of land occupying a complete square, one-third of which was to be devoted to the uses of the Society, and two-thirds to those of the Massachusetts Institute of Technology. The objectionable provisions were subsequently annulled. For the success of this undertaking the two institutions are especially indebted to the energetic labors of Professor William B. Rogers, Dr. Samuel Kneeland and Mr. M. D. Ross, although many others,

most of whom were not active members of the Society, contributed largely to it.

The sum of money required by the gift of Dr. Walker was raised, the old museum sold to the city for a school-house, and, with the funds thus obtained, the building now occupied by the Society was erected on the State grant of land. Before it was completed, Dr. Walker offered to establish a fund of twenty thousand dollars for the maintenance of the collections, provided other friends would raise an equal sum for the same purpose. As the expenses of building during the early years of the war had absorbed nearly all the funds of the Institution, nothing could have been more gratifying than this gift or the generosity with which the friends of the Society responded to Dr. Walker's call. The building was publicly dedicated on the 2d of June, 1864. On the 2d of April of the following year Dr. Walker died, leaving most of his property in equal parts to four public institutions,¹ besides making them his residuary legatees. The Society has already received over one hundred and twenty thousand dollars of this bequest, but owing to litigation,—the result of which is still undecided—the remainder of the property is retained by the executors to cover every possible demand.

Other friends have recently shown their appreciation of the influence of the Society. In 1863, Dr. B. D.

¹ The Boston Society of Natural History, Massachusetts Institute of Technology, Amherst College and Tufts College.

Greene, the first acting President, bequeathed to it his library and the sum of nine thousand dollars for building purposes. In 1865, the Society received a library fund of five thousand dollars as a memorial of Mr. Huntington Frothingham Wolcott, who had died after a short membership, but with a deep interest in the Society. In 1867, Miss Sarah P. Pratt bequeathed ten thousand dollars for the maintenance and increase of the conchological department in the museum and library. Still more recently the treasury has been enriched by legacies of twenty thousand dollars from Mr. P. P. Pope and of five thousand dollars from Mr. Henry Harris.

The Society has attempted to excite and foster a taste for Natural History in four ways: by the free exhibition of its collections tastefully and scientifically arranged; by placing upon its shelves a library of reference in natural history and kindred sciences; by giving public lectures upon the same subjects; and by publishing the results of the scientific studies of its members.

It is unquestionably by the increase of its cabinet that the Society has grown hitherto. This has been its most expensive burden, the chief cause of its repeated removals to larger halls, the object of the greatest popular interest and the grand incitement to patronage. It was to this that the attention of the young naturalists forming the Society was first turned, and a collection was made with a rapidity proportioned to their zeal. The nucleus of the cabinet consisted of about one thousand species of

shells deposited (and afterwards presented) by Dr. Amos Binney, and the geological and mineralogical collection of Dr. C. T. Jackson, at that time one of the most complete in America. Around these clustered from time to time other collections of more or less importance, to a few of which only allusion can be made. The Lafresnaye collection of Birds, purchased and presented by Dr. Henry Bryant in 1865, contains nearly nine thousand mounted specimens, and is especially rich in typical specimens from tropical America. The Insect collection of Prof. N. M. Hentz, consisting of thirty thousand specimens of about four thousand species, was purchased by private subscription in 1836, but was long since entirely destroyed. Dr. T. W. Harris's collection of about thirteen thousand native insects, especially valuable from the number of types which it contained, was presented by several gentlemen in 1860 ; this, with the later bequest of Mr. C. A. Shurtleff, has made our collection of American species quite important. In the early days of the Society, through the interest of Drs. Amos Binney, A. A. Gould, Messrs. J. P. Couthouy, J. W. Mighels and H. T. Parker, constant additions were made to the conchological department ; recently, the choice and valuable bequest of Miss Sarah P. Pratt has given it an unusual value. The extensive and well preserved herbarium of Dr. B. D. Greene, presented to us shortly before his death, places the botanical department upon a very substantial basis, as it contains the fruit of

twenty-five years' constant intercourse and exchange with botanists all over the world, and is very rich in special collections. Mention must be made of the important collection of Algæ bequeathed by Prof. J. W. Bailey and of Fungi given by Mr. C. J. Sprague; Professor Bailey's bequest also included his microscopical preparations of Diatoms, and of vegetable and animal tissues. Conspicuous in the museum are the series of casts of fossils from the Sivalik Hills, presented by the East India Company, through the solicitation of the Hon. Abbott Lawrence, then American Minister to the Court of St. James, and the cast of the *Megatherium*, received from the late Mr. Joshua Bates of London. But as it is impossible to specify all of the most valuable gifts, the names only of a few of the remaining donors will be added:—The Rev. Messrs. F. Mason of Burmah, J. S. C. Greene and F. W. P. Greenwood, Mrs. Henry Bryant, Drs. F. W. Cragin of Surinam, T. W. Harris, J. B. S. Jackson, Samuel Kneeland, Winslow Lewis, N. B. Shurtleff, D. H. Storer, John C. Warren and C. F. Winslow, Messrs. Francis Alger, James M. Barnard, W. T. Brigham, Martin Brimmer, George B. Emerson, S. E. Greene, C. S. Hale, J. N. Reynolds and C. A. Shurtleff, the Government Museum at Melbourne and the Smithsonian Institution.

The museum has always been freely open to the public; at first on Wednesdays only from twelve to two o'clock, now on Wednesdays and Saturdays from ten

until five. It is also open to all members on Thursdays, during the same hours, and to others bringing the cards of admission obtainable of patrons and life members. On other days not only is the museum closed but the cases are darkened, rendering an attempt to see the collections generally futile and always unsatisfactory.

The Custodian is the only salaried officer of the Institution, but assistance is regularly employed in the library and museum, as well as occasional aid for special purposes. The arrangement of the collections in general is voluntarily performed by the officers in charge of each department, assisted oftentimes by some of the younger members of the Society.

When the Society was organized, the great obstacle to the study of natural history was the want of any large collection of books. This was so strongly felt, that many who possessed a few volumes on subjects to which they had given their particular attention presented them to the Society. Many more books were purchased by private subscription, and in 1842 the library contained about one thousand volumes. Among these early accessions were both editions of Audubon's *Birds of America*—the larger given by the Hon. Thomas H. Perkins. Another copy of the folio edition, previously obtained by subscription, was afterwards sold, and other books purchased with the money received. In 1840, one-third of the income from the Courtis fund was as-

signed to the library; and this small sum (about two hundred dollars), was the only appropriation for the purchase of scientific books until the reception of the Wolcott fund of five thousand dollars.

In 1849, an agreement was made between the Society and "A Republican Institution," by which the latter granted over twenty-five hundred dollars for the purchase of books to be permanently deposited in the library. One half of the sum was expended by the Society for books on natural history; the other half by the Institution for works on history, geography, biography, politics, and finance. Ever since that time the Institution has annually deposited a few volumes on the same subjects, besides others on popular science and travel. In consideration of these valuable gifts, the members of this Institution are allowed the same privileges in the use of the Society's library, as the members of the Society.

In 1855, Mr. James Brown bequeathed a number of costly illustrated works on birds and mammals, and, in the succeeding year, Mrs. Binney deposited with the Society a great portion of the library of Dr. Amos Binney, a former President of the Society, numbering over one thousand volumes. In 1857, Prof. J. W. Bailey, in addition to the legacies already mentioned, bequeathed his choice microscopical library and manuscripts, and, in 1860, the library of the late Dr. T. W. Harris, composed exclusively of entomological and agri-

cultural works, was purchased and presented to the Society by Mr. J. P. Cushing. The largest addition ever made to the library was in 1863, when it received, from the bequest of Dr. B. D. Greene, fifteen hundred volumes, almost exclusively botanical, and many of them costly, illustrated works.

Exchanges with foreign scientific Academies, which of late years have multiplied with extraordinary rapidity, constitute the chief source of regular increase in the library. In 1861, the Society corresponded with forty of these institutions; in 1866, the number had reached two hundred and seventy-one. Nearly one-third of the library now consists of these publications alone.

The library is open daily (Sundays excepted) from 10 A. M. to 1 P. M., and from 2 to 5 P. M. Periodicals and Society publications of recent date and new books, are placed on tables or in cases by themselves, and members are requested to furnish the names of any works they may desire to have purchased. Books can be retained without renewal for one month, and by successive renewals for three consecutive months.

In the early days of the Society, lectures on various subjects connected with natural history were given by its members; other courses on miscellaneous subjects sprang up so rapidly in different parts of the city that every evening of the week was soon occupied. It was therefore deemed expedient to discontinue the lectures on natural history, but they were renewed at different

times and became occasionally a source of profit to the Society. In 1867, on the completion of the new lecture hall, courses were again commenced and will be regularly continued from year to year. They are given at irregular intervals, and announced by advertisements in the newspapers and by placards upon the bulletin board at the museum; a small admission fee is charged, not for the sake of profit—for when the hall is filled, the expenses exceed the receipts—but to secure the attendance of persons interested in natural science.

For many years the *Boston Journal of Natural History*, an illustrated publication, was issued by the Society; it contained the more important papers read at its meetings, and appeared, at first, with remarkable regularity—afterward, at more distant intervals. It continued through seven octavo volumes of four parts each, from 1834 until 1864, when it was replaced by a quarto series, also published in parts, entitled *Memoirs of the Boston Society of Natural History*.

As this series contained no account of the scientific discussions and business transactions of the Society, extracts from the records of the meetings were published for several years in "*Silliman's American Journal of Science*"; but in 1841 the Society commenced a series of its own, under the title of *Proceedings*, which also embraced short papers and abstracts of longer ones given in full in the *Journal*. The series is still continued and distributed in sheets, and, of late years, the *Annual*

Reports of the officers, extracted from the Proceedings, have been published separately. Formerly the Proceedings were distributed gratuitously to all members, but since the great accession to their numbers, this plan has been discontinued. The official Reports and the Annual will, however, be furnished to every Resident Member and Patron who will keep the Secretary informed of his address. It is proposed to add another series to those already established, under the title of Occasional Papers of the Boston Society of Natural History; it will consist of separate works printed in octavo, with or without illustrations. Most of the type-setting is done in the Society's building.

It should be mentioned, that the Natural History Survey of the State was proposed, urged and finally carried into execution by the members of the Society. It was the first thing of the kind ever fully completed in this country; and the valuable reports which followed, some of which were first published in the Society's Journal, served as models for future works of the kind. The survey formed an era in the progress of natural history in the United States, the effect of which is not likely to cease.

As it is not a requisite for membership¹ that a person should be directly interested in the study of Natural History, the number of immediate members greatly ex-

¹For the conditions of membership see the first article of the By-Laws on page 17.

ceeds that of the working men of the Society. The privileges of members are, free access to the museum on Thursdays, as well as on the public days, the use of the library, and admission to the meetings of the Society. Resident Members are subject to an annual assessment of five dollars, but may become Life Members, exempt from future assessments, by the single payment of one hundred dollars for that purpose. The same sum given in one payment constitutes any one a Patron.

Except during a portion of July, August and September, the meetings of the Society are held on the first and third Wednesdays of every month; scientific communications are heard, donations are received and the incidental business of the Society is transacted. Most of the business, especially that relating to finance, is confided to the Council, or board of officers, which also holds meetings twice a month. In addition, the meetings of the Section of Microscopy, founded in 1857 and re-organized in 1864, are held on the second Wednesday, and those of the Section of Entomology, established in 1866, on the fourth Wednesday of the month. The general meetings of the Society are held in the lecture hall; those of the Sections in the library of the museum. At the quarterly meetings of the Society in January, April, July and October, elections of members are held. At the Annual meeting in May the Society chooses officers for the ensuing year, the Custodian reports on the condition and doings of the Institution, the Treasurer and

Trustees on its finances, and the Walker Prize Committee announces the successful competitors for the past year and the subjects of the prizes for the next two years. The Council chooses annually a publishing committee of five, a library committee of three, a committee of three to audit the financial reports, and a prize committee to select questions for prizes and determine to whom the awards shall be made.

The regular income of the Society is derived from the following sources : —

1. The General Fund. This consists mainly of Dr. Walker's bequest, invested in manufacturing stocks, city and railroad bonds, etc., and is estimated at a value of more than one hundred and twenty thousand dollars. It is available for any purposes of the Society.

2. The Working and Prize Fund. This is invested in notes receivable, secured by mortgage, and amounts to more than forty thousand dollars. One half of the fund (representing the miscellaneous subscriptions) is held for the support of the museum in general; the income from the other half (representing the gift of Dr. Walker) is used for the payment of prizes,¹ for the preservation and exhibition of objects in the museum, and for repairs on the building; it cannot be applied to the construction of cases, nor to the purchase and preparation of specimens.

3. The Building Fund, the proceeds of the sale of the

¹ See page 126.

Bulfinch Street estate, the gift of Dr. Walker. This is invested partly in notes secured by mortgage and partly in U. S. bonds. The sum originally amounted to over twenty thousand dollars, and is kept, together with the interest accruing thereon, as an accumulating fund, to be used at some future time in the extension of the building.

4. The Courtis Fund, which amounts to ten thousand dollars, invested in St. Louis City Bonds. This fund is applicable to general purposes.

5. The Sarah P. Pratt Fund of ten thousand dollars, invested in railroad bonds. The interest is applied to the care and increase of the collection of shells and to the conchological portion of the library.

6. The H. F. Wolcott fund of five thousand dollars, invested in U. S. Treasury notes. The interest is used for the purchase of books.

7. The annual assessments, amounting to over one thousand dollars, and the initiation fees, to about one hundred and fifty dollars, both of which are expended for general purposes.

8. The sale of the Society's publications, amounting to about eight hundred dollars annually, and the rent of the printing office (one hundred and twenty-five dollars), which help to defray the cost of the publications.

Although these sources of income may, at first sight, seem sufficient for the proper maintenance of the Society, a little consideration will show the necessity for a

much larger endowment. The income of fifty thousand dollars of the property is applied to special purposes, abridging, thereby, the means for general use. The interior of the building is not yet entirely completed, and its extension is contemplated at an early day; the expenses attendant upon the rearrangement of the collections have only begun to be felt, and a much greater amount of skilled labor is requisite to make the collections as instructive as they should be. The library is extremely deficient in many important works, and the money annually devoted to it is insufficient to buy the most valuable recent standard works on natural history. Strict economy must be practised in the illustration of scientific papers presented for publication, although on this depends much of the value of original research in natural history. At the same time, specimens in all the various departments are multiplying so rapidly as to call for a corresponding increase of expenditure for their preparation and preservation. Unless public interest shall contribute yet further to these growing necessities, the Society will be abridged of its means to carry on to full fruition the objects for which it was established.

PAST OFFICERS OF THE SOCIETY.

PRESIDENTS.

	<i>Elected.</i>	<i>Retired.</i>
Thomas Nuttall,	May, 13, 1830.	Aug. 9, 1830.
Benjamin D. Greene,	Aug. 9, 1830.	May 3, 1837.
George B. Emerson,	May 3, 1837.	May 17, 1843.
Amos Binney,	May 17, 1843.	May 5, 1847.
John Collins Warren,	May 5, 1847.	May 4, 1856. ¹
Jeffries Wyman,	June 18, 1856.	

FIRST VICE PRESIDENTS.

George Hayward,	May 13, 1830.	May 12, 1832.
John Ware,	May 12, 1832.	May 4, 1836.
F. W. P. Greenwood,	May 4, 1836.	May 5, 1841.
Amos Binney,	May 5, 1841.	May 17, 1843.
Charles T. Jackson,	May 17, 1843.	

SECOND VICE PRESIDENTS.

John Ware,	May 13, 1830.	May 12, 1832.
Francis C. Gray,	May 12, 1832.	May 7, 1834.
F. W. P. Greenwood,	May 7, 1834.	May 4, 1836.
Walter Channing,	May 4, 1836.	May 3, 1837.

¹ By death.

	<i>Elected.</i>	<i>Retired.</i>
Amos Binney,	May 3, 1837.	May 5, 1841.
C. T. Jackson,	May 5, 1841.	May 17, 1843.
D. Humphreys Storer,	May 17, 1843.	May 2, 1860.
Augustus A. Gould,	May 2, 1860.	Sept. 15, 1866. ¹
Thomas T. Bouvé,	Nov. 21, 1866.	

CORRESPONDING SECRETARIES.

Gamaliel Bradford,	May 13, 1830.	May 7, 1834.
Amos Binney,	May 7, 1834.	May 3, 1837.
Epes S. Dixwell,	May 3, 1837.	May 17, 1843.
Augustus A. Gould,	May 17, 1843.	May 1, 1850.
J. Elliot Cabot,	May 1, 1850.	June 1, 1853.
S. L. Abbot,	Nov. 2, 1853.	

RECORDING SECRETARIES.

Theophilus Parsons,	May 13, 1830.	Sept. 2, 1830.
D. Humphreys Storer,	Sept. 2, 1830.	May 4, 1836.
Martin Gay,	May 4, 1836.	May 2, 1838.
Augustus A. Gould,	May 2, 1838.	May 15, 1839.
Jeffries Wyman,	May 15, 1839.	Mar. 17, 1841.
Frederick A. Eddy,	May 5, 1841.	April 20, 1842.
T. Bulfinch,	May 4, 1842.	May 3, 1848.
S. L. Abbot,	May 3, 1848.	Oct. 19, 1853.
Benjamin S. Shaw,	Nov. 2, 1853.	June 2, 1858.
Samuel Kneeland, Jr.,	June 16, 1858.	May 7, 1862.
Samuel H. Scudder,	May 7, 1862.	

TREASURERS.

Simon E. Greene,	May 13, 1830.	May 2, 1832.
Amos Binney,	May 2, 1832.	May 7, 1834.

¹ By death.

	<i>Elected.</i>	<i>Retired.</i>
Epes S. Dixwell,	May 7, 1834.	Dec. 7, 1833.
Ezra Weston, Jr.,	Dec. 7, 1836.	May 1, 1839.
John James Dixwell,	May 1, 1839.	May 14, 1845.
Patrick T. Jackson, Jr.,	May 14, 1845.	May 1, 1850.
Nathaniel B. Shurtleff,	May 1, 1850.	May 5, 1858.
Amos Binney,	May 5, 1858.	Sept. 4, 1861.
Thomas T. Bouvé,	Sept. 4, 1861.	May 3, 1865.
Edward Pickering,	May 3, 1865.	

LIBRARIANS.

Seth Bass,	May 13, 1830.	May 2, 1832.
Charles Amory,	May 2, 1832.	May 1, 1833.
Charles K. Dillaway,	May 1, 1833.	May 4, 1864.
Samuel H. Scudder,	May 4, 1864.	

CABINET-KEEPERS.

Estes Howe,	May 7, 1834.	May 20, 1835.
Nathaniel B. Shurtleff,	May 20, 1835.	May 3, 1837.
T. M. Brewer,	May 3, 1837.	May 2, 1838.
Jeffries Wyman,	May 2, 1838.	May 1, 1839.
Samuel Cabot, Jr.,	May 1, 1839.	Oct. 2, 1839.
William I. Bowditch,	Oct. 2, 1839.	Nov. 5, 1839.
Samuel L. Abbot,	Nov. 5, 1839.	Dec. 30, 1840.
Henry J. Bigelow,	Dec. 30, 1840.	Mar. 17, 1841.
Thomas T. Bouvé.	May 5, 1841.	May 4, 1842.
Henry Bryant,	May 4, 1842.	Oct. 4, 1843.
Henry J. Bigelow,	Nov. 1, 1843.	May 5, 1847.
Samuel Kneeland, Jr.,	May 5, 1847.	May 2, 1849.
C. C. Sheafe,	May 2, 1849.	May 5, 1852.
Charles Stodder,	May 5, 1852.	May 4, 1864.

This office was abolished in 1864.

CUSTODIANS.

	<i>Elected.</i>	<i>Retired.</i>
Samuel H. Scudder,	May 4, 1864.	May 3, 1865.
Samuel H. Scudder,	Oct. 3, 1866.	

CURATORS.

Benjamin D. Greene,	May 13, 1830.	Sept. 2, 1830.
Francis C. Gray,	May 13, 1830.	May 2, 1832.
Walter Channing,	May 13, 1830.	May 4, 1831.
Edward Brooks,	May 13, 1830.	May 4, 1831.
Amos Binney,	May 13, 1830.	May 2, 1832.
Jos. W. McKean,	May 13, 1830.	May 20, 1835.
George B. Emerson,	May 13, 1830.	May 3, 1837.
Francis Alger,	May 13, 1830.	May 7, 1834.
J. S. Copley Greene,	Sept. 2, 1830.	May 2, 1832.
Joshua B. Flint,	May 4, 1831.	May 2, 1832.
Augustus A. Gould,	May 4, 1831.	May 2, 1838.
Winslow Lewis, Jr.,	May 2, 1832.	May 2, 1838.
William B. Fowle,	May 2, 1832.	May 20, 1835.
Clement Durgin,	May 2, 1832.	May 1, 1833.
G. W. Otis,	May 2, 1832.	May 20, 1835.
Charles T. Jackson,	May 1, 1833.	May 2, 1838.
John B. S. Jackson,	May 7, 1834.	May 2, 1838.
Thaddeus W. Harris,	May 20, 1835.	May 2, 1838.
J. E. Teschemacher,	May 20, 1835.	May 2, 1838.
Martin Gay,	May 20, 1835.	May 4, 1836.
D. Humphreys Storer,	May 4, 1836.	May 2, 1838.
N. B. Shurtleff,	May 3, 1837.	May 2, 1838.

The curatorships were assigned to special departments for the first time in 1838.

CURATOR OF ETHNOLOGY.

Charles Pickering,	Feb. 5, 1862.	May 1, 1867.
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The Curatorship of Ethnology was abolished in 1867.

CURATORS OF MAMMALS.

	<i>Elected.</i>	<i>Retired.</i>
Winslow Lewis,	May 2, 1838.	May 1, 1839.
Jeffries Wyman,	May 1, 1839.	May 6, 1840

CURATOR OF COMPARATIVE ANATOMY.

Nathaniel B. Shurtleff,	May 2, 1838.	May 6, 1840.
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CURATORS OF COMPARATIVE ANATOMY AND MAMMALS.

Nathaniel B. Shurtleff,	May 6, 1840.	May 2, 1849.
Samuel Kneeland, Jr.,	May 2, 1849.	June 7, 1854.
Jeffries Wyman,	June 7, 1854.	May 6, 1857.
John Green,	May 6, 1857.	Nov. 17, 1858.
James C. White,	Dec. 1, 1858.	May 6, 1868.

The Curatorships of Mammals and of Comparative Anatomy were united in 1840.

CURATORS OF BIRDS.

Thomas M. Brewer,	May 2, 1838.	May 6, 1840.
Marshall S. Scudder,	May 6, 1840.	Dec. 16, 1840.
S. L. Abbot,	Dec. 16, 1840.	May 1, 1844.
Samuel Cabot, Jr.,	May 1, 1844.	May 3, 1854.
Henry Bryant,	May 3, 1854.	Feb. 2, 1867. ¹
J. Elliot Cabot,	May 1, 1867.	

CURATOR OF BIRDS (nests and eggs).

Thomas M. Brewer,	July 2, 1851.
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CURATORS OF REPTILES AND FISH.

D. Humphreys Storer,	May 2, 1838.	May 17, 1843.
Jeffries Wyman,	May 17, 1843.	May 3, 1848.

The Curatorship was separated into two divisions in 1848.

² By death.

CURATORS OF REPTILES.

	<i>Elected.</i>	<i>Retired.</i>
Jeffries Wyman,	May 3, 1848.	May 7, 1851.
Horatio R. Storer,	May 7, 1851.	Dec. 21, 1853.
Jeffries Wyman,	Jan. 4, 1854.	June 7, 1854.
J. Nelson Borland,	Dec. 6, 1854.	May 2, 1860.
Samuel A. Green,	May 2, 1860.	May 1, 1861.
Francis H. Brown,	May 1, 1861.	Oct. 4, 1865.
Burt G. Wilder,	Oct. 18, 1865.	

CURATORS OF FISHES.

W. O. Ayres,	May 3, 1848.	July 16, 1851.
Silas Durkee,	July 16, 1851.	May 21, 1856.
Samuel Kneeland, Jr.,	May 21, 1856.	Sept. 3, 1856.
N. E. Atwood,	Dec. 17, 1856.	May 5, 1858.
Samuel Kneeland, Jr.,	May 5, 1858.	May 4, 1859.
F. W. Putnam,	May 4, 1859.	

CURATORS OF INSECTS.

T. William Harris,	May 2, 1838.	May 3, 1848.
Waldo I. Burnett,	May 3, 1848.	July 1, 1854. ¹
Henry K. Oliver, Jr.,	May 2, 1855.	Sept. 5, 1855.
Silas Durkee,	May 21, 1856.	May 5, 1858.
Alex. E. R. Agassiz,	May 5, 1858.	Mar. 2, 1859.
Samuel H. Scudder,	Mar. 16, 1859.	

CURATORS OF MOLLUSKS.

T. J. Whittemore,	June 5, 1839.	May 5, 1841.
Augustus A. Gould,	May 5, 1841.	May 17, 1843.
A. E. Belknap,	May 17, 1843.	May 1, 1844.
Augustus A. Gould,	May 1, 1844.	May 14, 1845.
Edward Tuckerman,	May 14, 1845.	May 6, 1846.

¹ By death.

	<i>Elected.</i>	<i>Retired.</i>
John Bacon, Jr.,	May 6, 1846.	May 3, 1848.
William Read,	May 3, 1848.	Nov. 20, 1850.
William Stimpson,	Dec. 4, 1850.	May 18, 1853.
T. J. Whittemore,	May 18, 1853.	May 2, 1860.
Arthur T. Lyman,	May 2, 1860.	May 16, 1860.
Nathan Farrand,	June 6, 1860.	May 4, 1863.
Alpheus Hyatt,	Oct. 21, 1863.	May 1, 1867.
Edward S. Morse,	May 1, 1867.	

CURATORS OF CRUSTACEANS AND RADIATES.

Amos Binney,	Feb. 3, 1841.	May 5, 1841.
William O. Ayres,	July 16, 1851.	May 18, 1853.
J. B. S. Jackson,	May 18, 1853.	May 2, 1855.
John P. Reynolds,	May 2, 1855.	May 6, 1857.
Theodore Lyman,	May 6, 1857.	Sept. 2, 1857.

The Curatorship was separated into two divisions in 1857.

CURATORS OF CRUSTACEANS.

H. R. Storer,	Sept. 2, 1857.	May 4, 1859.
Albert Ordway,	May 4, 1859.	Dec 18, 1861.
Alpheus S. Packard, Jr.,	Dec. 2, 1863.	

CURATORS OF RADIATES.

Theodore Lyman,	Sept. 2, 1857.	May 4, 1864.
Addison E. Verrill,	May 4, 1864.	

CURATORS OF BOTANY.

J. E. Teschemacher,	May 2, 1838.	May 5, 1852.
Charles James Sprague,	May 5, 1852.	May 3, 1865.
Horace Mann,	May 3, 1865.	

CURATORS OF MICROSCOPY.

	<i>Elected.</i>	<i>Retired.</i>
Silas Durkee,	June 3, 1857.	May 2, 1860.
B. Joy Jeffries,	May 2, 1860.	

CURATORS OF MINERALS AND GEOLOGY (State collection).

Charles T. Jackson,	May 2, 1838.	May 5, 1841.
T. Bulfinch,	May 5, 1841.	May 4, 1842.

CURATOR OF MINERALS AND GEOLOGY (Society collection).

Martin Gay,	May 2, 1838.	May 4, 1842.
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The State Collection was withdrawn from the Society's Museum, and the Curatorship of Mineralogy and Geology divided, in 1842.

CURATORS OF MINERALS.

Martin Gay,	May 4, 1842.	May 2, 1849.
Francis Alger,	May 2, 1849.	May 21, 1856.
John Bacon,	May 21, 1856.	May 4, 1863.
William T. Brigham,	May 4, 1863.	May 3, 1865.
Thomas T. Bouvé,	May 3, 1865.	

CURATORS OF GEOLOGY.

Thomas T. Bouvé,	May 4, 1842.	May 4, 1863.
William T. Brigham,	Jan. 2, 1867.	

The department of Palæontology was added to that of Geology in 1863, and raised to a separate department in 1867.

CURATOR OF GEOLOGY AND PALÆONTOLOGY.

Thomas T. Bouvé,	May 4, 1863.	Jan. 2, 1867.
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CURATORS OF PALÆONTOLOGY.

Thomas T. Bouvé,	Jan. 2, 1867.	May 1, 1867.
Alpheus Hyatt,	May 1, 1867.	

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† Elisha Atkins,	26 India Whf.
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† Erastus B. Bigelow,	8 Commonwealth Ave.
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Henry J. Bigelow, M.D.,	52 Beacon St.
W. Sturgis Bigelow,	" " "
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John H. Blake,	27 Tremont Row.
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Thomas T. Bouvé,	130 State St.
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J. Ingersoll Bowditch,	Merchant's Bank Building.
William I. Bowditch,	8 Railroad Exchange.

Stephen W. Bowles, M.D.	199 Shawmut Ave.
N. J. Bradlee,	18 Pemberton Sq.
Joseph Breck,	52 N. Market St.
† F. W. Brewer,	144 Tremont St.
Thomas M. Brewer, M.D.,	131 Washington St.
† Willard S. Brewer,	144 Tremont St.
Charles G. Brewster,	16 Tremont St.
Edward A. Brigham,	96 Devonshire St.
E. D. Brigham,	13½ Faneuil Hall Sq.
William T. Brigham,	35 Court St.
† Francis Brooks,	214 Beacon St.
Henry C. Brooks,	24 Commercial Whf.
† Peter C. Brooks,	10 Court St.
Augustus Brown,	99 Milk St.
Francis H. Brown, M.D.,	97 Waltham St.
† C. Allen Browne,	34 Commercial St.
E. J. Browne,	16 Court St.
† John Bryant,	64 Beacon St.
Stuart M. Buck,	7 Somerset St.
N. Willis Bumstead,	293 Washington St.
Edward Burgess,	62 Beacon St.
C. G. Bush,	65 Albion St.
† Edward C. Cabot,	2 Pemberton Sq.
James Elliot Cabot,	Brookline.
Louis Cabot,	Brookline.
Samuel Cabot, Jr., M.D.,	11 Park Sq.
George B. Cary,	46 Central Whf.
B. F. Campbell,	39 Bromfield St.
Horace F. Carpenter,	Pawtucket, R. I.
† Charles Carruth,	25 Broad St.
Samuel N. Chamberlin,	15 Shoe and Leather St.
Abner Chapman,	7 Bowdoin Sq.
W. S. Chase,	Nat. Bank of Commerce.
Isaac Y. Chubbuck,	Roxbury.

Stillman E. Chubbuck, Jr.,	Roxbury.
Jos. R. Churchill,	Milton Lower Mills.
J. H. Clapp,	84 Washington St.
Randolph M. Clark,	28 Milk St.
Thomas W. Clarke,	1 Kingston St.
William C. Cleveland,	Cambridge.
† Arthur Codman,	323 Washington St.
† Edward W. Codman,	35 Charles St.
W. W. Codman, M.D.,	53 Marlborough St.
Edward R. Cogswell, M.D.,	Cambridgeport.
Edward P. Colby, M.D.,	13 Tremont St.
Joshua P. Converse,	81 Washington St.
Algernon Coolidge, M.D.,	65 Marlborough St.
† Isaac C. Cooper,	104 Pembroke St.
William M. Courtis,	Andover.
Phineas M. Crane, M.D.,	East Boston.
Samuel W. Creech, Jr.,	30 Court St.
C. F. Crehore, M.D.,	Newton Lower Falls.
N. Cressy, M.D.,	Cambridge.
W. P. Cross, M.D.,	235 Broadway.
Rev. W. H. Cudworth,	East Boston.
John Cummings, Jr.,	93 Pearl St.
† Nathaniel Cummings,	144 Tyler St.
Thomas Cushing,	115 Boylston St.
† Edmund F. Cutter,	69 Franklin St.
† Eben Dale,	61 and 63 Franklin St.
William H. Dale,	54 State St.
William H. Dall,	Boston.
Bennet F. Davenport,	Cambridge.
G. Hubbard Davis, Jr.,	272 Washington St.
James Davis,	97 State St.
† John Dean, M.D.,	Boston.
B. L. Delano, M.D.,	13 Merchants' Exchange.

† Henry G. Denny,	37 Court Sqr.
Reuben S. Denny,	Clappville.
William Denton,	Wellesley.
† George M. Dexter,	5 State St.
George J. Dickinson,	97 State St.
† Charles K. Dillaway,	Roxbury.
W. R. Dimmock,	5 West Cedar St.
C. P. Dillaway,	Roxbury.
E. W. Dimond,	Cambridge.
John H. Dix, M.D.,	Hotel Pelham.
Epes S. Dixwell,	20 Boylston Pl.
J. J. Dixwell,	66 State St.
Chrysostom P. Donahoe,	124 Boylston St.
Jonathan Dorr,	32 Pearl St.
C. F. Dunbar,	Court St.
Henry D. Dupee,	54 City Exchange.
† James A. Dupee,	54 City Exchange.
† Henry F. Durant,	77 Mt. Vernon St.
Silas Durkee, M.D.,	50 Howard St.
Edward P. Dutton,	135 Washington St.
Thomas Dwight, Jr., M.D.,	70 Beacon St.
R. T. Edes, M.D.,	Hingham.
Rev. E. B. Eddy,	Providence, R. I.
† Henry Edwards,	14 Kilby St.
Charles W. Elliott,	86 Charles St.
L. A. Elliott,	322 Washington St.
† Calvin Ellis, M.D.,	114 Boylston St.
W. F. Ellston,	Cambridge.
George B. Emerson,	3 Pemberton Sq.
S. F. Emmons,	30 Kilby St.
Henry Endicott,	33 Summer St.
† William Endicott, Jr.,	" " "
Percival Lowell Everett,	28 State St.

† Isaac D. Farnsworth,	8 Kilby St.
Nathan Farrand,	136 Pearl St.
Charles E. Faxon,	Jamaica Plain.
George N. Faxon,	25 Somerset St.
Walter Faxon,	Cambridge.
Henry H. Fay,	88 Mt. Vernon St.
† J. S. Fay,	10 R. R. Exchange.
† Joseph S. Fay. Jr.,	88 Mt. Vernon St.
R. S. Fay, Jr.,	69 Federal St.
† Albert Fearing,	25 Commercial St.
J. B. Fenno,	19 City Whf.
George J. Fisher,	1 Commerce St.
Horace N. Fisher,	Brookline.
† Frank S. Fiske,	40 State St.
† Augustus Flagg,	110 Washington St.
Robert Fletcher,	11 Charlestown St.
† Charles L. Flint,	State House.
John Flint, M.D.,	1 Union Park.
Waldo Flint,	16 Kilby St.
Charles W. Folsom,	Cambridge.
Daniel V. Folts, M.D.,	28 and 37 Maverick Sq., E. B.
† John Foster,	115 Broad St.
James B. Francis,	Lowell.
J. F. Frisbie, M.D.,	Boston.
† Donald McL. Frothingham,	59 Franklin St.
† Frederic G. Frothingham,	" " "
† Samuel Frothingham, Jr.,	" " "
Thomas Gaffield,	10 Merchants' Row.
† Charles W. Galloupe,	76 State St.
Frank C. Garbutt,	Cambridge.
† J. P. Gardner,	22 Congress St.
† Phineas E. Gay,	126 Harrison Ave.
† N. B. Gibbs,	55 Merchants' Exchange.

Paul M. Gidney,
 † B. W. Gilbert,
 Edward Gilchrist, M. D.,
 † Thomas A. Goddard,
 † Samuel H. Gookin,
 Francis Gorham,
 W. M. Gorham,
 B. A. Gould,
 Asa Gray,
 S. A. Green, M.D.,
 Rev. J. S. Copley Greene,
 R. C. Greenleaf,
 R. C. Greenleaf, Jr.,
 David S. Greenough, Jr.,

Herrmann Hagen, M.D.,
 J. D. Hague,
 Rev. E. E. Hale,
 Josiah L. Hale, Jr.,
 William F. Hall,
 Ivory Harmon,
 Edward Doubleday Harris,
 George J. Harris,
 Daniel Harwood, M.D.,
 John C. Hayden, M.D.,
 Andrew Hayes,
 Augustus A. Hayes, M.D.,
 Charles D. Head,
 John T. Heard,
 J. B. Henck,
 John Andrew Henshaw,
 Charles A. Hewins,
 George Higginson,
 Thomas Hill, D.D.,

36 Winter St.
 28 State St.
 Naval Hospital, Chelsea.
 36 Central Whf.
 27 Doane St.
 15 Congress St.
 130 State St.
 9 Merchants' Row.
 Cambridge.
 19 Kneeland St.
 Brookline.
 33 Summer St.
 9 Commonwealth Ave.
 Jamaica Plain.

Cambridge.
 5 Newton St.
 67 Worcester St.
 65 Hancock St.
 City Hall.
 Roxbury.
 41 Tremont St.
 14 Lincoln St.
 21 Summer St.
 Cambridge.
 Roxbury.
 20 State St.
 32 City Exchange.
 4 Louisburg Sq.
 41 State St.
 61½ City Exchange.
 W. Roxbury.
 174 Beacon St.
 Cambridge.

Luther Hills,	North Wrentham.
W. S. Hills,	114 Harrison Ave.
Thomas B. Hitchcock, M.D.,	169 Tremont St.
† John Hogg,	299 Washington St.
William Holden,	Charlestown.
Thomas Hollis,	23 Union St.
Oliver W. Holmes, M.D.,	21 Charles St.
† Charles D. Homans, M.D.,	4 Temple Pl.
George H. Homans,	26 City Exchange.
† John Homans, M.D.,	31 Boylston St.
Nathaniel L. Hooper,	45 Bowdoin St.
† R. W. Hooper, M.D.,	114 Beacon St.
† Gardiner G. Hubbard,	39 State St.
Charles T. Hubbard,	2 Louisburg Sq.
George P. Huntington,	76 Boylston St.
Alpheus Hyatt,	Salem.
† Herman Brimmer Inches, M.D.,	1 Russia Wharf.
Martin B. Inches,	72 Boylston St.
William Ingalls, M.D.,	2 Dover St.
Charles Jackson, Jr.,	39 Milk St.
Charles T. Jackson, M.D.,	41 Somerset St.
† John C. Jackson,	" " "
J. B. S. Jackson, M.D.,	89 Charles St.
P. T. Jackson,	39 Milk St.
George Jacques,	Somerville.
William James,	13 Ashburton Place.
† Benjamin Joy Jeffries, M.D.,	15 Chestnut St.
† Edward P. Jeffries,	" " "
† John Jeffries, Jr.,	17 City Exchange.
Daniel W. Job,	39 India Whf.
Amos H. Johnson, M.D.,	Salem.
† C. Berkeley Johnson,	16 South Market St.

† Samuel Johnson, Jr.,	33 Summer St.
W. O. Johnson, M.D.,	4 Beacon St.
† N. C. Keep, M.D.,	74 Boylston St.
Chas. Park Kemp, M.D.,	26 S. Russell St.
B. F. Kendall,	New York.
† Charles S. Kendall,	42 Water St.
George G. Kennedy,	Roxbury.
Barker B. Kent, Jr.,	339 Broadway, S. B.
† H. P. Kidder,	40 State St.
Jerome G. Kidder,	42 India St.
Rev. E. N. Kirk,	5 Staniford St.
Samuel Kneeland, M.D.,	Mass. Institute of Technology.
Rev. C. F. Knight,	6 St. James St.
John E. Knight,	Boston.
W. Putnam Kuhn,	26 Union Building.
† Henry F. Lambert,	10 Merchants' Row.
Samuel W. Langmaid, M. D.,	1 Park Sq.
J. H. Lathrop,	Dedham.
† Amos A. Lawrence,	17 Milk St.
James Lawrence,	82 Milk St.
† Thomas J. Lee,	60 State St.
Marcus B. Leonard, M.D.,	7 Meridian St., E. B.
F. W. Lincoln,	126 Commercial St.
† C. C. Little,	110 Washington St.
James L. Little, Jr.,	2 Commonwealth Ave.
Samuel Lockwood, Jr.,	Roxbury.
J. S. Lombard, M.D.,	11 St. James St.
Caleb W. Loring,	39 Court St.
John A. Loring,	5 Tremont St.
Rev. Samuel K. Lothrop,	12 Chestnut St.
Augustus Lowell,	60 State St.
Arthur T. Lyman,	16 Mount Vernon St.
Theodore Lyman,	1 Joy St.

Benjamin P. Mann,	Cambridge.
Horace Mann,	"
George H. Marden,	Haymarket Sq.
G. F. H. Markoe,	292 Washington St.
John P. Marshall,	College Hill.
John S. Martin,	12 Hawley St.
Lyman Mason,	20 Court St.
F. W. G. May,	1 Broad St.
† Thomas McHayes,	19 Merchants' Bank Building
Martin McKenzie,	299 and 301 Washington St.
James S. Melvin,	325 Washington St.
William H. Mendell,	16 Ashland Pl.
James C. Merrill, Jr.,	8 Pemberton Sq.
Theodore Metcalf,	39 Tremont St.
George T. Moffat, M.D.,	4 Hamilton Pl.
† Hugh Montgomery.	181 State St.
Alexander Moore,	21 Franklin St.
W. W. Morland, M.D.,	90 Charles St.
Thomas D. Morris,	143 Broad St.
Edward S. Morse,	Salem.
Henry D. Morse,	240 Washington St.
† William Munroe	22 Franklin St.
† N. C. Munson,	13 Studio Building.
† Albert L. Murdock	15 Causeway St.
Jeremiah L. Newton	27 Tremont Row.
† Lyman Nichols,	61 State St.
Franklin Nickerson,	Lowell.
Joshua G. Nickerson,	91 Fulton St.
† Sereno D. Nickerson	76 State St.
W. H. Niles,	Cambridge.
† Otis Norcross,	10 McLean St.
Jacob Norton,	9 Elm St.

John T. Ogden,	146 Federal St.
W. M. Ogden, M.D.,	278 Shawmut Ave.
Michael C. O'Shae,	1 Berlin St.
A. S. Packard, Jr., M.D.,	Salem.
Calvin B. Page, M.D.,	69 Myrtle St.
† Charles H. Parker,	82 Milk Street.
D. M. Parker, M.D.,	11 Summer St.
† Leonard M. Parker,	
William L. Parker,	1277 Washington St.
Theophilus Parsons,	Cambridge.
William Parsons,	56 State St.
F. H. Peabody,	40 State St.
Oliver W. Peabody,	8 Union Building.
† William Perkins,	49 Commercial Whf.
Rev. John B. Perry,	Cambridge.
John D. Philbrick,	City Hall.
Charles Pickering, M.D.,	11 Beacon St.
Edward Pickering,	8 Merchants' Exchange.
Edward C. Pickering,	84 Mt. Vernon St.
Octavius Pickering,	41 Bowdoin St.
Benjamin M. Pierce,	Cambridge.
Johnson T. Platt,	Redding Ridge, Conn.
† Avery Plumer,	173 State St.
C. B. Porter, M.D.,	104 Boylston St.
Lieut. Samuel W. Powell,	U. S. Marine Corps.
George H. Powers, M.D.,	
Joseph Pratt,	200 Shawmut Ave.
† Jonathan Preston,	116 Boylston St.
Joshua P. Preston,	57 Purchase St.
† William G. Preston,	6 Joy's Building.
Henry A. Purdie,	State House.
Charles G. Putnam, M.D.,	24 Marlborough St.

C. P. Putnam,	24 Marlborough St.
Frederic W. Putnam,	Salem.
James J. Putnam,	24 Marlborough St.
Henry P. Quincy,	3 Mt. Vernon St.
† Edward S. Rand,	30 Court St.
John W. Randall,	107 Harrison Ave.
† John P. Reynolds, M.D.,	170 Tremont St.
Henry B. Rice,	American House.
George H. Richards,	39 Court St.
† Horace Richardson, M.D.,	Boston.
† Jeffrey Richardson,	2 Central Whf.
James Bailey Richardson,	20 Court St.
William L. Richardson,	159 Tremont St.
Edward S. Ritchie,	313 Washington St.
John Ritchie,	" " "
Thomas P. Ritchie,	" " "
† George H. Rogers,	Salem.
† Wm. B. Rogers,	1 Temple Pl.
F. C. Ropes, M.D.,	104 Mt. Vernon St.
† M. D. Ross,	7 Liberty Sq.
Arthur Rotch,	3 Commonwealth Ave.
† Benjamin S. Rotch,	" " "
† S. P. Ruggles,	152 Washington St.
J. D. Runkle,	Mass. Institute of Technology.
George Russell,	14 Lynde St.
† Le Baron Russell, M.D.,	164 Tremont St.
Emanuel Samuels,	Boston.
† Francis G. Sanborn,	187 Warren Ave.
Samuel H. Savage,	26 India Whf.
H. M. Saville, M.D.,	41 Union Park.
† Henry Sayles,	22 State St.

Marshall S. Scudder,	18 Devonshire St.
† Samuel H. Scudder,	Cambridge.
Nathaniel S. Shaler,	Cambridge.
* J. C. Sharp, M.D.,	40 Commonwealth Ave.
B. S. Shaw, M.D.,	Mass. Gen'l. Hospital.
Lemuel Shaw,	27 State St.
Chas. C. Sheafe,	123 Boylston St.
W. E. Sheldon,	W. Newton.
Augustine Shurtleff, M.D.,	Brookline.
A. M. Shurtleff,	13 Tremont St.
Hiram S. Shurtleff,	2 Beacon St.
Nathaniel B. Shurtleff, M.D.,	" " "
James G. Shute,	Woburn.
† John Simmons,	47 Congress St.
† A. D. Sinclair, M.D.,	Chesnut Hill.
George D. Smith,	162 Washington St.
† S. G. Snelling,	4 Liberty Sq.
S. T. Snow,	97 State St.
† A. W. Spencer,	13 Congress St.
Chas. Jas. Sprague,	40 State St.
Francis P. Sprague, M.D.,	57 Hancock St.
Philip S. Sprague,	141 Broadway, S. B.
Charles A. Stearns,	City Hall.
John Stearns, M.D.,	Boston.
Joseph B. Stearns,	21 Court Sq.
† Joshua Stetson,	45 Summer St.
Charles K. Stevens,	Boston.
J. H. Stickney, M.D.,	55 Temple St.
Charles Stoddard,	4 Milk St.
Charles Stodder,	75 Kilby St.
L. B. Stone,	27 Tremont St.
D. Humphreys Storer, M.D.,	132 Tremont St.
F. H. Storer,	" " "
Horatio R. Storer, M.D.,	Hotel Pelham.

Franklin H. Story,	60 State St.
William Stowe,	43 Commercial St.
George Sceva,	Mansfield.
Edward A. Strong,	99 Pearl St.
F. R. Sturgis,	New York.
E. Lewis Sturtevant, M.D.,	Framingham.
Austin Sumner,	85 Boylston St.
Charles W. Swan, M.D.,	1039 Washington St.
† Isaac Sweetzer,	25 Broad St.
G. W. Swett,	Suffolk Bank.
† J. Brooks Taft,	18 Batterymarch St.
J. T. Talbot,	31 Mt. Vernon St.
David Thaxter,	16 Court St.
L. Lincoln Thaxter,	13 Tremont St.
Levi L. Thaxter,	Newtonville.
† Nathaniel Thayer,	40 State St.
† William Thomas,	10 Marlborough St.
† N. A. Thompson,	Old State House.
Edward S. Tobey,	103 State St.
Frank I. Tolman,	8 Boylston Pl.
† James Tolman,	111 Washington St.
James O. Treat,	Lawrence.
L. Trouvelot,	E. Medford.
Alanson Tucker,	34 Franklin St.
Joshua Tucker, M.D.,	4 Hamilton Pl.
William Tudor,	Joy, cor. of Beacon St.
C. A. Tufts,	Dover, N. H.
C. W. Tuttle,	47 Court St.
John E. Tyler, M.D.,	Somerville.
A. E. Verrill,	New Haven, Ct.
† Joseph Vila, Jr.,	13 Congress St.
George L. Vose,	Paris Hill, Me.

O. F. Wadsworth, M.D.	84 Charles St.
† George W. Wales,	142 Beacon St.
† T. B. Wales,	50 Central Whf.
Charles H. Walker, M.D.,	Chelsea.
James E. Walker, M.D.,	1554 Washington St.
Henry Artemas Ward, M.D.,	228 Tremont St.
Charles E. Ware, M.D.,	39 West St.
Frederic Ware,	Cambridge.
Geo. Wash. Warren,	42 Court St.
Joseph H. Warren, M.D.,	903 Washington St.
Thomas Waterman, Jr.,	14 Parker St.
Rev. R. C. Waterston,	71 Chester Sq.
S. G. Webber, M.D.,	73 Brookline St.
J. R. Webster, M.D.,	Milton.
Moses W. Weld, M.D.,	23 Worcester St.
† William F. Weld,	42 Central Whf.
Henry M. Wellington,	13 Pemberton Sq.
John Wetherbee, Jr.,	11 Phoenix Building.
Leander Wetherell,	15 Winter St.
Jeremiah Whipple,	Boston.
C. T. White,	64 Fulton St.
† James C. White, M.D.,	10 Park Sq.
C. J. Whitmore,	1 Central Whf.
J. P. Whitney,	19 Lindall St.
Charles Whittier,	39 Bromfield St.
W. Wickersham,	13 Pemberton Sq.
Edward Wigglesworth,	16 India Whf.
† Thomas Wigglesworth,	" " "
Joseph M. Wightman,	13 Doane St.
Burt G. Wilder, M.D.,	Cambridge.
Marshall P. Wilder,	4 Winthrop Sq.
Benjamin B. Williams,	3 Louisburg Sq.
Henry W. Williams, M.D.,	15 Arlington St.
† E. T. Wilson, M.D.,	167 Tremont St.

Henry W. Wilson,	Dorchester, off Seventh St., S. B.
Samuel S. Wilson,	11 Monument Ave., Charlestown.
Charles H. Wing,	5 Liberty Sq.
C. F. Winslow, M.D.,	Boston.
Edward Winslow,	80 State St.
Alexander M. Wood, M.D.,	60 Beverly St.
Samuel D. Woodward,	Newport, R. I.
Charles W. Wrightington,	51 Commercial St.
Jeffries Wyman, M.D.,	Cambridge.
Joseph H. York, M.D.,	Boston.

Honorary Members	31
Corresponding Members	228
Patrons, living	112
Patrons, deceased	66
	<hr/>
	178
	178
Original Members	38
Resident Members, Paying	370
Resident Members, Life	122
	<hr/>
	492
	492

PRINCIPAL CONTRIBUTORS TO THE FUNDS.

1840.	Ambrose S. Courtis,		\$10,000
1845.	John Parker,		2,000
1847.	Amos Lawrence,	Building Fund	5,000
"	Abbott Lawrence,	"	1,000
"	John A. Lowell,	"	1,000
"	Nathan Appleton,	"	1,000
"	William Appleton,	"	1,000
"	Samuel Appleton,	"	1,000
"	Peter C. Brooks,	"	1,000
"	John C. Warren,	"	1,000
"	Mrs. Amos Binney,	"	1,000
1849.	Jonathan Phillips,		2,000
1854.	T. H. Perkins,		1,000
1861.	Miss Mary P. Townsend,		3,000
"	Jonathan Phillips,		10,000
"	Wm. J. Walker, Estate afterwards sold for		20,550
1862.	Wm. J. Walker,	Building Fund	20,000
"	Thomas Lee,	"	1,000
"	John L. Gardner,	"	1,000
"	Benjamin D. Greene,	"	1,000
"	Nathaniel Thayer,	"	1,000
"	Henry B. Rogers,	"	1,000
"	A Friend,	"	1,000
1863.	Benjamin D. Greene,	"	9,000
1864.	Wm. J. Walker,	Working Fund	20,000

1864.	Nathaniel Thayer,	Working Fund	\$1,500
1865.	Wm. J. Walker,		120,000
	" Huntington F. Wolcott,		5,000
1867.	Miss Sarah P. Pratt,		10,000
	" Paschal P. Pope,		20,000
	" Henry Harris,		5,000

LIST OF INSTITUTIONS

IN CORRESPONDENCE WITH THE SOCIETY.

Albany, Albany Institute.

“ New York State Agricultural Society.

“ New York State Library.

Alnwick, Berwickshire Naturalists' Club.

Altenburg, Naturforschende Gesellschaft des Osterlandes.

Amsterdam, Genootschap Natura Artis Magistra.

“ Koninklijke Akademie van Wetenschappen.

Anspach, Historischer Verein in Mittelfranken.

Anvers, Cercle Artistique, Littéraire et Scientifique d'Anvers.

“ Société Paléontologique de Belgique.

Augsburg, Naturhistorischer Verein.

Bamberg, Naturforschende Gesellschaft.

Basel, Naturforschende Gesellschaft.

Batavia, Bataviaasch Genootschap van Kunsten en Wetenschappen.

“ Natuurkundige Vereeniging in Nederlandsch Indie.

Beauvais, Société Académique d'Archéologie, Sciences et Arts du
Département de l'Oise.

Belfast, Natural History and Philosophical Society.

Bergen, Bergens Museum.

Berlin, Akklimatisations-Verein.

“ Archiv für Anatomie, Physiologie und wissenschaftliche
Medicin.

Berlin, Archiv für Naturgeschichte.

“ Deutsche geologische Gesellschaft.

“ Entomologischer Verein.

“ Gesellschaft für Erdkunde.

“ Gesellschaft naturforschender Freunde.

“ Königlich-Preussische Akademie der Wissenschaften.

“ Verein für Beförderung des Gartenbaues.

Bern, Naturforschende Gesellschaft.

Besançon, Société d'Émulation du Doubs.

Blankenberg, Naturwissenschaftlicher Verein des Harzes.

Bologna, Imperial Regio Istituto Geologico.

“ Reale Accademia delle Scienze.

Bombay, Bombay Geographical Society.

“ Royal Asiatic Society.

Bonn, Naturhistorischer Verein des Preussischen Rheinlandes.

“ Verein von Alterthumsfreunden im Rheinlande.

Bordeaux, Académie Impériale des Sciences, Belles-Lettres et Arts.

“ Société des Sciences Physiques et Naturelles.

“ Société Linnéenne.

Boston, American Academy of Arts and Sciences.

“ Boston Medical and Surgical Journal.

“ Horticultural Society.

“ Massachusetts Institute of Technology.

“ Massachusetts Historical Society.

“ Public Library.

“ State Board of Agriculture.

Bregenz, Vorarlberger Museums-Verein.

Bremen, Naturwissenschaftlicher Verein.

Breslau, Schlesische Gesellschaft für vaterländische Cultur.

Brünn, Kön. Kais. Mährisch-Schlesische Gesellschaft zur Beförderung
des Ackerbaues, der Natur- und Landeskunde.

“ Naturforschender Verein.

“ Werner-Verein zur geologischen Durchforschung von Mähren
und Schlesien.

B r u x e l l e s , Académie Royale des Sciences, des Lettres et des
Beaux-Arts.

“ Société Botanique de Belgique.

“ Société Entomologique de Belgique.

“ Société Malacologique de Belgique.

“ Société Royale Linnéenne.

B u e n o s A i r e s , Museo Publico de Buenos Aires.

B u f f a l o , Buffalo Society of Natural Science.

C a e n , Académie Royale des Sciences, Arts et Belles-Lettres.

“ Société Linnéenne de Normandie.

C a l c u t t a , Agricultural and Horticultural Society of India.

“ Asiatic Society of Bengal.

“ Geological Survey of India.

C a m b r i d g e , E n g . , Cambridge Philosophical Society.

“ “ Journal of Anatomy and Physiology.

“ M a s s . , Harvard Natural History Society.

“ “ Museum of Comparative Zoölogy.

C a s s e l , Journal für Ornithologie.

C a t a n i a , Accademia Gioenia di Scienze Naturali.

C h e r b o u r g , Société Impériale des Sciences Naturelles.

C h a r l e s t o n , Elliott Society of Natural History.

C h i c a g o , Chicago Academy of Sciences.

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¹The plates in this volume are inaccurately numbered; there are two plates each numbered XVI (one of which is referred to as XIV), XX, XXI, XXII, XXIII, XXIV and none numbered XIV or XXXII.

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tion of the species." The subject of the annual prize for 1870 has not yet been announced.

The subject of the annual prize for 1868 was—"Adduce and discuss the evidence of the co-existence of man and extinct animals, with a view of determining the limits of his antiquity." No essays were offered in competition.

GRAND HONORARY PRIZE.—By the provisions of the same foundation, the Council of the Society may, once in five years, award the sum of five hundred dollars for such scientific investigation or discovery in natural history as may seem to deserve it; provided that such investigation or discovery shall have first been made known and published in the United States, and that this shall have taken place at least one year previous to the time of the award. If any such investigation or discovery shall prove of extraordinary merit, the Council may award the sum of one thousand dollars.

The Grand Honorary Prize is to be awarded for the first time, in 1870.

STATED MEETINGS OF 1868-69.

GENERAL MEETINGS.

May	6,*	1868,	8	o'clock.
"	20,	"	"	"
June	3,	"	"	"
"	17,	"	"	"
July	1,†	"	"	"
Sept.	16,	"	7½	"
Oct.	7,†	"	"	"
"	21,	"	"	"
Nov.	4,	"	"	"
"	18,	"	"	"
Dec.	2,	"	"	"
"	16,	"	"	"
Jan.	6,†	1869,	"	"
"	20,	"	"	"
Feb.	3,	"	"	"
"	17,	"	"	"
Mar.	3,	"	"	"
"	17,	"	"	"
April	7,†	"	"	"
"	21,	"	"	"
May	5,*	"	8	"

MEETINGS OF THE SECTION OF MICROSCOPY.

May	13,	1868,	8	o'clock.
June	10,	"	"	"
Oct.	14,	"	7½	"
Nov.	11,	"	"	"
Dec.	9,	"	"	"
Jan.	13,	1869,	"	"
Feb.	10,	"	"	"
Mar.	10,	"	"	"
April	14,	"	"	"

MEETINGS OF THE SECTION OF ENTOMOLOGY.

May	27,	1868,	8	o'clock.
June	24,	"	"	"
Sept.	23,	"	7 ½	"
Oct.	28,	"	"	"
Nov.	25,	"	"	"
Dec.	23,	"	"	"
Jan.	27,	1869,	"	"
Feb.	24,	"	"	"
Mar.	24,	"	"	"
April	28,	"	"	"

* Annual Meeting for elections of officers, etc.

† Quarterly Meeting, at which members are elected.

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