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Charles C. Page

PRIVATE AND CONFIDENTIAL.

CITY OF LIVERPOOL.

R E P O R T

PREPARED BY THE

DIRECTOR OF MUSEUMS,

RELATIVE TO THE SPACE REQUIRED FOR THE
EXTENSION OF THE

FREE PUBLIC MUSEUMS,

WILLIAM BROWN STREET, LIVERPOOL,

PURSUANT TO A RESOLUTION OF THE SPECIAL SUB-COMMITTEE
OF THE LIBRARY, MUSEUM AND ARTS (GENERAL) COMMITTEE,

HELD ON THE 6TH DECEMBER, 1894.

*[Approved by the Museum Sub-Committee on the 18th December, 1894, and
ordered to be printed.]*

LIVERPOOL:

J. R. WILLIAMS & CO., PRINTERS, 8, SCHOOL LANE.

1894.



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REPORT

PREPARED BY THE DIRECTOR OF MUSEUMS, RELATIVE TO THE SPACE REQUIRED FOR THE EXTENSION OF THE FREE PUBLIC MUSEUMS.

IN accordance with the Resolution of the Special Sub-Committee of the Museums (General) Committee, held on the 6th instant, the Director of Museums begs to report on the accommodation which will be required to exhibit efficiently the very large collections now contained in the Free Public Museums.

In order that the suggestions which the Director has the honour to subjoin, may be fully comprehended, it appears advisable to him :—

- I.—To point out that the present arrangement of the Museum, necessitated by the lack of space, is most unsatisfactory; and
- II.—To indicate how, in the opinion of the highest authorities, a Biological Collection, such as the Derby Museum, ought to be arranged.

Before dealing with these heads, however, it may be well to indicate the present congested state of the collections.

In all the rooms in which the Vertebrate Animals are exhibited, especially in the Mammal Galleries, the specimens are so crammed together in the cases that proper exhibition is impossible, those behind being quite obstructed from view by those in front. In the main room, the cases are double-banked, the second tier reaching to the roof, where the specimens are all impossible of examination by the visitor. The Bird Galleries, as well as the Fish and Reptile Galleries, on the upper floor, are in substantially the same condition as those below. In nearly every gallery, where it has been possible to conceal them more or less, are cabinets stacked with collections; every subterranean passage is lined with cases and cupboards, and every cellar is stored—all to their utmost capacity—with material of great value, and consisting of much that must be new to science, and a great deal of it, having been stored for a score of years, must undoubtedly be deteriorating and going to ruin. The collections, especially those from Knowsley, are of the highest value, many of the specimens being of great historical interest.

I.—This pressing need of space has necessitated an arrangement of the collections which is most bewildering and confusing to, even the most intelligent visitor. At present he enters (See Plan I.) Gallery A, and traverses the other Mammalian Rooms B, C, D, beginning with the Marsupials and ascending to the higher Apes and Man, which he finds along with the Derby Minerals, in Room E, whose exit is to the outside. To discover the continuation of the animal series the visitor has to retrace not only the classificatory order he has been following, but his footsteps also, and having passed through the Mayer Museum, both its middle and upper floors, he at last reaches the Bird Galleries, K, J, I, O, P, to find them not only confusedly arranged, but placed in the midst of the Invertebrates, with which they have no affinity. The Reptiles and Fishes he discovers in the midst of Metallurgical and Mineralogical Collections, separated from the Birds by such lowly forms as Corals and Sponges.

Thus different groups of the animal kingdom, which are related to each other, are, on account of the difficulty of housing them otherwise, separated far from each other. No arrangement more confusing to the student or ordinary visitor could probably have been devised than is the present—none certainly more calculated to prove that the complaint of the dulness of this, as of most other Museums, is justly founded.

II.—A Biological Collection, such as that in the Free Public Museums, should be arranged pre-eminently for those who have little or no knowledge of Science, but who have a craving to become acquainted with the plants and animals that surround them, or a desire to increase the knowledge they may have acquired by observation. This arrangement need not be less useful to the University Student. The exhibition should also be such as to attract those who have no object beyond amusement or relaxation; they should find the Museum a book with its pages open and its narrative so clearly set out, that they are unawares following a connected story, unfolded from room to room before their eyes, which may excite their interest and further attention.

There is no book of instruction, however, with any pretence to being logical, but begins with propositions that are simple and elementary, and leads from them to the more complex.

A Biological Museum should, therefore, be as it were a Book of animals and plants, explained in words understandable of all persons of ordinary education, commencing with the description of the simpler forms, and

leading step by step to the higher and more complex. In other words, this *Book* should consist (as Sir William Flower, Professor Herdman and others have urged) of *Labels* clearly printed, and fully but simply descriptive, whose *illustrations* are the *specimens* to which those labels are attached.

Although there is not (surprising as it may appear) in this country a single museum arranged on these principles, there is no biologist but admits that they are not only the ideal, but the only true and intelligible principles on which a Museum should be arranged, and who does not on every opportunity advocate their adoption in all new Museums.

This scientific and only intelligible method the Director desires to adopt, therefore, so as to present to the visitor the lowest forms of life in the Animal and Vegetable Kingdoms on his entrance, gradually introducing him from room to room to those of nearest affinity, in ascending order till the highest are reached.

This requires necessarily more space than named specimens set side by side, and broad-area-ed, rather than narrow galleries, because the arrangement is not linear, but ramified, or tree-like.* The buildings in which the Liverpool Free Museums are housed, are far from being as well constructed for the purposes of a Museum as they might be. Being, however, where they are, impossible of fundamental alteration and capable of being extended only in one direction, they may be to a considerable degree improved by the addition of galleries, as in the preliminary plans submitted to this Committee by Mr. Willink, *if these galleries run continuously through from those now occupied* in the present buildings, even although they must perforce be narrower than could be desired.

The accompanying plans (I., the ground floor; II., the upper floor)—which roughly follow Mr. Willink's—show in the unshaded portion the existing accommodation; in the proposed extension, the shaded portions indicate the minimum space which, in the opinion of the Director, is required to exhibit not only in a scientific manner, but in the only way which will be intelligible to the un-scientific visitor, the collections already in the Museum.

* The Members of the Committee are referred to an important Paper by Prof. W. A. Herdman, F.R.S., on *An Ideal Natural History Museum*.—*Proc. Lit. and Phil. Soc., Liverpool*—in which the phylogenetic arrangement is advocated as essential.

The visitor entering, therefore, Room A, in Plan I, would have before him the lowest forms of life which, branching, diverge on the one hand into the Vegetable Kingdom, exhibited in C and D, and on the other into the Animal Kingdom, in B, F, G and H, where the highest of the Invertebrate section of the family tree would be reached—living and fossil forms being exhibited together. An explanatory tablet would here direct the visitor upstairs (by an outside stair at the junction of D and H), where the animal pedigree would be continued (Plan II.) by the Vertebrated Animals in Rooms I, J, K, L, M, culminating in Apes and Man in M.

Not only is the exhibition of the phylo-genetic relationship of each part of the Animal Kingdom to the rest necessary for the student visitor, but the distribution of life over the globe in time and in space is equally so. The galleries N and O, therefore, would be devoted to the Geological and Geographical Distribution of plants and animals. Rooms P and Q would be required for the display of instances of protective resemblances, commensalism, variation of species, &c. In Q, R and S, the wall-cases would contain the rocks in their relation to the crust of the earth, while the Mineralogical collections would find a fitting place in the centre-cases of the same galleries.

It will have been observed that the room marked E was unallotted. An examination of the plans will show that in the construction of the new buildings, the lights of the present American Room of the Ethnographical Gallery will be entirely blocked out. New light may be admitted, perhaps by windows to William-Brown Street, but not quite sufficient for showing efficiently the Ethnological objects now arranged there. It is suggested, therefore, to extend the Aquarium into that room ; to monopolise the Egyptian Room (the basement of the Mayer Collection) which is too damp at any rate for the Egyptian Collection, for the ethnographical space thus taken away, and to extend the Mayer Museum into Room E, into which its second-floor exhibits would be transferred, while the second floor of the Mayer Museum would become the Egyptian Gallery.

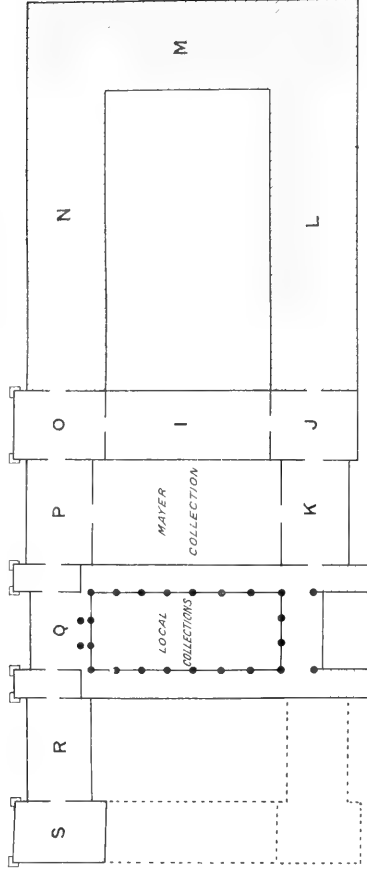
So far no collections have been allocated to the Entrance Hall and its Gallery. It is proposed to devote the area and the alcoves round it to as complete a collection as possible of the local Flora and Fauna. The gallery surrounding it would be devoted to the Geographical Distribution

NATURAL HISTORY



PLAN 2

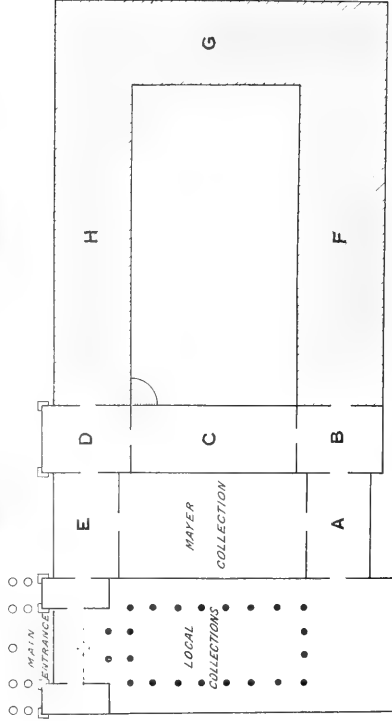
UPPER FLOOR. DIAGRAMMATIC.



SCALE _____ FEET

PLAN 1

LOWER FLOOR. DIAGRAMMATIC.



SCALE _____ FEET

of the plants and animals in the British Islands, a subject which has such important bearings—geological, geographical, and historical—on the making of the British Isles.

The two floors, therefore, shaded in plans I. and II., suggested to be added by the proposed extensions, are absolutely necessary, both as *space for exhibition*, but more imperatively to insure *continuity* and *contiguity* of related groups.

If the large collections, already housed in the Museum, were exhibited as now suggested in two such continuous galleries as proposed—even narrow as they must be—the Vertebrated Animals in the one floor and the Invertebrate series in the other, no Museum certainly in England, could present such a scientifically-arranged collection. Liverpool would then, at least, have the credit of first showing to the world a Museum abreast of the scientific thought of the time, and so arranged as to be clearly intelligible to the least scientific visitor, and comprehensible to all who, even if unable to read English, can use their eyes. It could not help being attractive, interesting, and instructive, because, as already pointed out, it would be a great book with its extended and simply-worded pages illustrated at every step, not by pictures, but by the objects themselves, magnified where necessary, of which every part would be fully displayed by dissections, models, or diagrams.

HENRY O. FORBES,
DIRECTOR OF MUSEUMS.

M. J. J.
28 AUG. 1899



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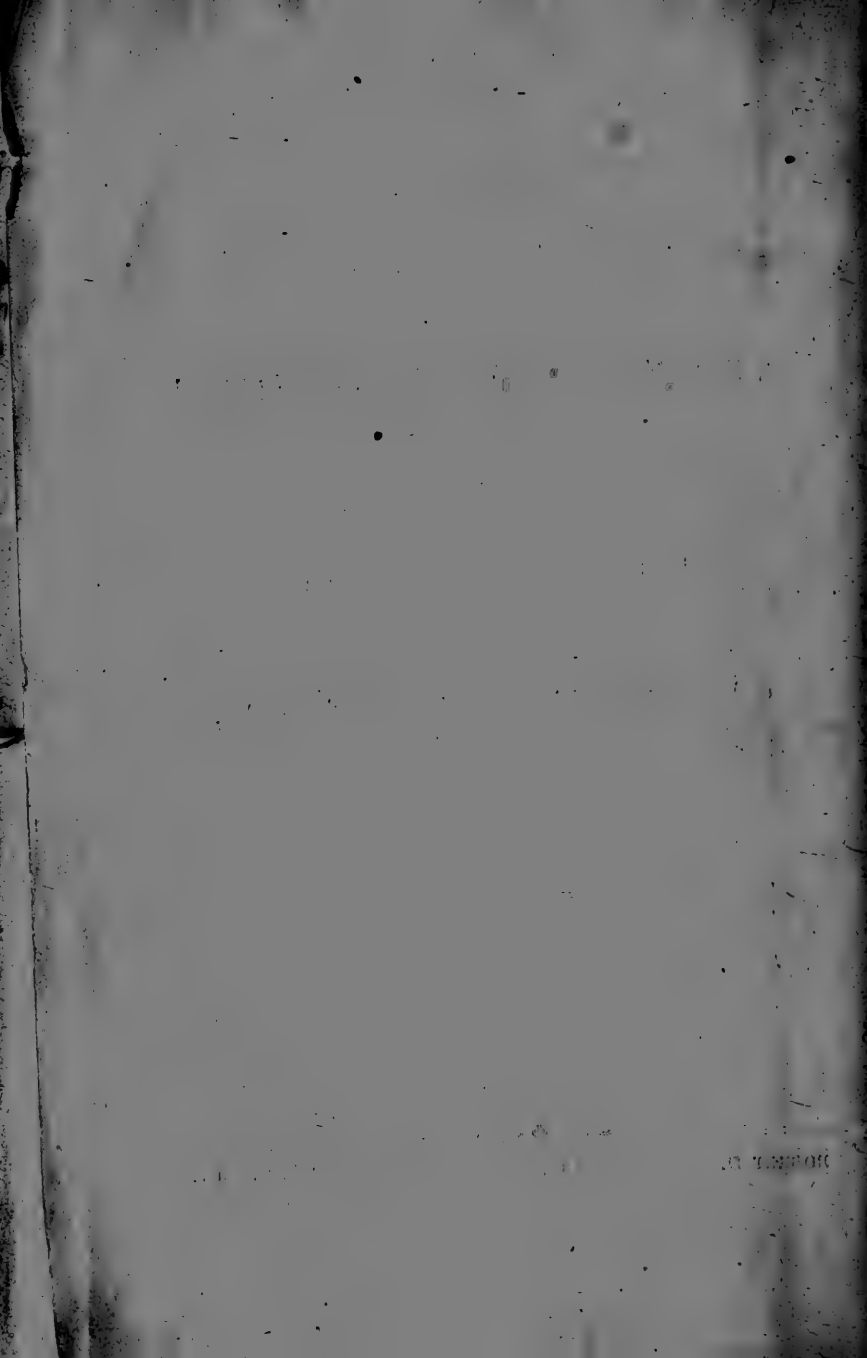
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184 , **REPORT**
OF THE
LIBRARY AND MUSEUM COMMITTEE,
TO THE
TOWN COUNCIL,
Of the Borough of Liverpool,

OCTOBER, 1853.

LIVERPOOL:
ROBERT H. FRASER, CABLE STREET AND HARRINGTON STREET.



REPORT.

THE Library and Museum Committee consider it desirable at the close of the municipal year that the Council should be presented with a summary of the proceedings and progress of the Institution to the present time. Twelve months have now elapsed since the Library was first thrown open to the public. At that time, although sanguine hopes were entertained of its success by those who had been most active in its establishment, yet it could only be looked upon in the light of an experiment; the machinery called into action was new, the extent of the demand for it uncertain, and failure was regarded by many as at least possible if not probable.

The experience of a year has thrown much light on the various aspects in which the Institution may be viewed—on the extent to which such an establishment was called for by the public of Liverpool—on the description of books chiefly in demand—on the class of persons by whom the Library is principally frequented—on the mode in which its beneficial effects are found to operate—and on the amount of encouragement presented for the enlargement of its means and the extension of its field of operation. On all these points much valuable information has been obtained during the year, and probably the statistics of the twelve months cannot be better arranged than in the order just enumerated.

The Library was opened on the 18th of October, 1852. From that period to the same date of the present year there have been issued to readers the number of 111,723 volumes; in addition to which there have been 16,960 readers of periodical publications which are left lying on the tables, making a total of works perused of 128,683. The average number of books issued per diem is 394, and of readers of periodicals 80. Assuming the average number of books in the Library during the year to have been 10,000, which is near the truth, the numbers issued are equivalent to every book in the Library having been read thirteen times over during that time. Gratifying as the result must be, it does not fairly represent the demand for the advantages of the Library. The utmost number which the present rooms can accommodate at one time, even with inconvenient crowding, is 140 to 160 persons. In the evening, which is of course the principal time for readers, the rooms are always filled, frequently crowded to a most inconvenient extent, The discomfort arising from this source, and from the stifling atmosphere which the frequenters of the rooms have to submit to in consequence, is a sufficient evidence of the avidity with which the inhabitants avail themselves of the advantages of the Institution.

To supply this constantly growing demand the operations of the Committee have been as under.

At the commencement of the year the number of volumes in the Library amounted to 8,296, besides 1,200 duplicate volumes and 490 parts of Parliamentary Papers, and exclusive of about 1,000 volumes of old and imperfect works and duplicates. To these there have been added during the year 3,960 volumes, of which 700 volumes and 40 pamphlets have been donations, and 3,220 volumes by purchase.

A valuable collection of maps and charts has also been added, fitted with a roller and case for reference. Care has been taken to procure the best which could be obtained.

The number of volumes now in the Library, including the Parliamentary Papers, amounts to 13,456, which are classified as under.

	VOLS.
Theology, Morality, and Metaphysics.....	770
Natural Philosophy, Astronomy, Chemistry, &c.....	484
Natural History, Botany, Mineralogy, &c.	482
Science and the Arts, Architecture, Painting, Music, &c.	440
History and Biography	1877
Topography and Antiquities.....	584
Geography, Voyages, and Travels	996
Miscellaneous Literature	2339
Jurisprudence, Law, and Politics.....	2791
Commerce and Political Economy	80
Education, Rhetoric, Logic, and Language	131
Poetry and Dramatic Literature	721
Novels and Romances.....	1296
Classical Literature.....	53
Encyclopædias, Gazetteers, Heraldry, and Books of Reference...	409
Total.....	13,456

The expenditure in the purchase of books for the Reference Library during the year has been £1,060 9s. 7d., of which £303 11s. 2d. was the balance of the original fund subscribed, and £756 18s. 5d., the amount expended out of the sum of £1,000 voted by the council.

The following summary of the books issued during the year will show the proportion of the demand for the various classes of literature :—

Classification of Books Read.	The number of times the different classes of Books (taken as a whole) have been read, is about :—	
Theology, Metaphysics, &c.	4071	6 times.
Natural Philosophy	3577	8. "
Natural History	1903	5. "
Science and the Arts	2808	7. "
History and Biography	13369	8. "
Topography and Antiquities	1848	4. "
Geography, Voyages and Travels	7433	8. "
Miscellaneous Literature	10208	5. "
Law, Politics, &c.	739	$\frac{1}{2}$ "
Commerce and Political Economy	394	6. "
Education, Logic, Language, &c.	1018	9. "
Poetry and the Drama	5770	9. "
Novels	56224	52. "
Classical Literature	291	6. "
Encyclopædias, Heraldry, &c.	2070	6. "
Total.....	111,723	

It will be seen from the above table that works of amusement form about one-half of all the books read. Far from regretting this result, the Committee feel it their duty to render this portion of the Library more attractive still, being of opinion that the love of reading in any form must tend to counteract the propensity to low and degrading pursuits, and that in order to inspire a thirst for knowledge, the first step is to cultivate a taste for reading in some direction. History, general literature, voyages and travels, and poetry have been next in demand. The number of theological and philosophical works consulted being about 80 per week, or 4,071 during the year, is somewhat remarkable, and indicates a higher class of general reading than might at first sight be expected.

The individuals frequenting the Library do not belong to any class of society in particular. A large proportion belong to the operative classes, and of these again many are youths in their apprenticeship. The advantage to these which the Library presents it would be difficult to over-estimate, and the effect is beginning already to tell in a marked manner upon their conduct.

For some time after the opening of the Library, before the

system of its organisation was fully understood, a slight degree of disorder and irregularity was perceptible. Individuals came direct from their occupations, with unwashed hands and negligent attire. To leave no excuse for this conduct, the Committee provided lavatories, which were for a time useful, and answered their purpose. The necessity for them has now almost entirely passed away. The frequenters of the Library having become fully aware that the regulations are calculated to promote the comfort of the readers, cheerfully and cordially co-operate with the officers to this end. In the most crowded state of the rooms the utmost order and silence are preserved. No instance of wilful defacement or injury to any book has occurred. Two small volumes of trifling value, have alone been abstracted, which, out of an issue of 128,000, may be looked upon as a remarkable and pleasing fact.

The Committee cannot but feel that the results of the past year give every encouragement both to increase the resources of the library already opened, and to extend the field of usefulness collaterally as far as practicable. Out of the duplicate and imperfect copies of works in stock, 400 volumes have been granted to assist in forming a library in the Borough Gaol, under the management of the chaplain, the Rev. Thos. Carter; and 600 volumes have been presented to the juvenile libraries at the North and South Corporation Schools.

In the report at the commencement of the year, the Committee expressed their desire to establish at the earliest possible period one or more lending libraries. This has now been successfully accomplished. Two Libraries have been prepared, one at the North and the other at the South Corporation School, which will be open two evenings in the week for the issue of books, under proper regulations. Each of these Libraries contains at present 1,000 volumes. A portion of these are duplicates from the Central Library. The remainder have been purchased at an expenditure of about £200.

The Museum of Natural History, presented to the town by the Earl of Derby, was opened to the public on the 8th of March. Since that time it has been visited by 157,861 persons, being an average of 4,933 per week.

The Museum also contains the Model of Liverpool, and the cases of imports which appeared in the Great Exhibition of 1851. The latter have been recently re-arranged. Many donations have been presented during the year, the principal of which is a series of fossil casts from India, presented by the Hon. East India Company.

The satisfactory development of both the Museum and Library is materially retarded by the insufficiency of the building in which they are contained. Happily, the Council have determined that this shall no longer be the case.

The site on the north side of Shaw's Brow, voted unanimously at the last meeting of the Council, will meet every requirement on the score of situation and capacity, whilst the grant of £10,000 in aid of the building, voted at the same Council, united to the donation of £6,000 by Mr. W. Brown, M.P., for the Library Building, will enable the Committee for next year to proceed vigorously with their preparations for the erection.

The Committee cannot close their report without a more direct allusion to Mr. Brown's noble gift. It is alike worthy of the donor and the object—it is an omen of future progress and success. It is sincerely to be hoped that he may live to see the completion and success of the Institution towards which he has so largely contributed; and that his example may stimulate all who desire to see the progress of our community in all which should adorn and dignify humanity, if not to rival his munificence, at least to lend a helping hand towards the furtherance of an object which is emphatically for the benefit of all.

Signed on behalf of the Committee,

J. A. PICTON, CHAIRMAN.

October 26th, 1853.



SECOND

ANNUAL REPORT



OF THE COMMITTEE

OF THE

FREE PUBLIC LIBRARY,

AND

The Derby Museum,

OF

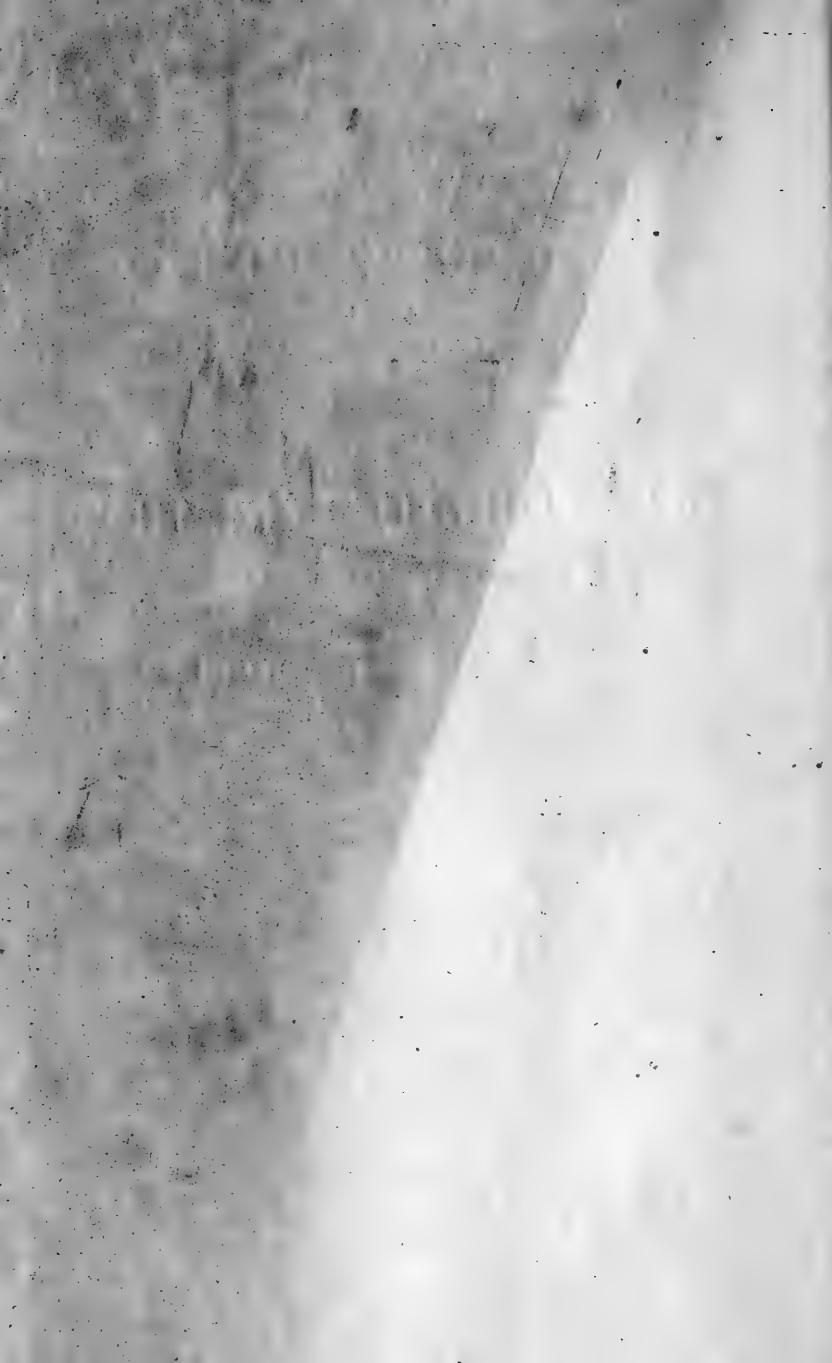
THE BOROUGH OF LIVERPOOL;

PRESENTED TO THE TOWN COUNCIL,

OCTOBER, 1854.

LIVERPOOL:

PRINTED BY ROBERT H. FRASER, CABLE STREET.



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REPORT.

THE experience of the second year of the Institution in its various departments, has fully justified the expectations of those who took an interest in its establishment. Generally, the Committee have to report an increased amount of efficiency, a more extended field of usefulness, and a greater degree of appreciation in the public mind, of the benefits resulting from the ready and free access to the treasures of literature, science, and natural history thus provided.

A clearer view of the operations of the past year, and of the present position of each department, will be obtained by noticing the results of each separately :—

THE DERBY MUSEUM.

The number of visitors during the year has been 122,174, being a daily average of 588 for the four days of the week on which the Museum is open. A considerable proportion of the visitors have consisted of excursionists, chiefly from the manufacturing districts, the conduct of whom has been orderly and respectable. Amongst the scientific visitors, may be mentioned the King of Portugal, an accomplished zoologist, especially in ornithology, who expressed himself delighted and surprised at the extent and value of the collections, and whose promised assistance, in the way of donation and exchange, may prove of considerable value in future. Professor Owen, Sir William Jardine, Professor Forbes, Dr. Carpenter, and other eminent men of science have visited the Museum during the recent meeting of the British Association. Several of the specimens were found useful in illustration of papers read during the sitting.

The principal donations to the Museum, during the past year, have been as follows :—

Fifteen Oil Paintings, by Reinagle, R. A., Catlin, and others, illustrative of Natural History, from the Right Honourable the Earl of Derby.

A collection of dried Crustacea, Mollusca, and Radiata, from T. C. Eyton, Esq. Wellington, Salop.

A collection of Fossils from the mountain limestone, from Sir Thomas Deane, Dundanion Castle, county Cork.

Twenty skins of Birds, from India, by J. Leech, Esq.

A Guanaco, several additions to the osteological collection, and a fine collection of Shells, from Mazatlan, by Mr. Hulse, Naturalist, Dale Street.

The shells just alluded to, have been classified and beautifully arranged on glass tablets, by the Rev. P. P. Carpenter, of Warrington, to whom special thanks are justly due.

A Seal and other specimens of Osteology, by Mr. Atkins, Zoological Gardens.

A collection of Chinese Arms and Accoutrements, by H. C. Beloe, Esq.

Minor donations have also been received from the following parties, Mr. J. Chandley, Captain Moore, (ship John Matthie), Captain Tweedie, (ship Marion Moore), Mr. G. Cummins, Mr. Aspinall, (Chester), Mr. W. H. Weightman, Mr. James Orme, Miss Westhead, Mr. Cliffe, Mr. Purnell, Mr. Byerley, Captain Frazer, (ship Athole), Mr. James Feeny, Captain Matthews, (Steam Ship Great Britain), Mr. W. Cross, Mr. Harrison, Mrs. Hardingham, Mr. McAndrew, Mr. E. D. Glynne, Mr. J. G. Morris, Mr. Eck, and Captain Chapman, (Brig Damaris.)

It will be perceived that several of these donations are from Captains of vessels; these specimens have chiefly been preserved in spirit; and it is very desirable that it should be known that Captains of ships and travellers generally, have it in their power to add materially to the interest of the Collection, with very little cost or trouble to themselves, by preserving in spirit any suitable objects within their power, not only birds and the smaller quadrupeds, but especially reptiles, fishes, crustacea, mollusca, and insects, in which the Museum is deficient.

Donations have been promised from various quarters abroad.

Soon after the opening of the Institution, a valuable donation of casts from fossils brought from the Himalaya Mountains was made by the Honourable East India Company. A further donation from the

same quarter may shortly be expected, consisting of skins of mammalia and a cast from the great fossil tortoise.

A few purchases have been made during the year, but these have been neither important nor costly.

The Model of ancient Liverpool, prepared by Mr. Harding, has been purchased by the Council out of the Corporate funds and deposited in the Museum.

No progress has been made during the year in mounting additional specimens. The crowded state of the cases and the want of accommodation for the operator, have prevented any attempt of the kind. The attention of the Committee and the Curator has been chiefly directed to the provision of means for preserving those specimens not yet stuffed and mounted, of which there is a large quantity in the Museum of the most interesting and varied character. These have all been examined, aired and arranged in drawers protected from the light, ready to be brought out and exhibited whenever accommodation shall be provided for the purpose. Means have also been adopted of covering the cases of mounted specimens from the light at all times when the Museum is not open to the public, so as to protect the brilliancy of the plumage as long as practicable.

The Curator has devoted much attention during the year to the naming of the specimens in the Collection; but this desirable object has been greatly retarded by the want of sufficient books of reference. These works being of an expensive character, the funds at the disposal of the Committee have not enabled them to appropriate any large sum to this object, however desirable it may be. The recent purchase of Gould's splendid works on Ornithology, will, to a certain extent, supply this want, and enable the Curator to make more progress in naming and cataloguing the specimens. As this proceeds, the richness of this collection of birds will be made more apparent; when it will be found, that by the judicious exchange of duplicate specimens, in lieu of others which may be found deficient in order to complete the series, the Derby Museum will take rank as one of the finest Ornithological Collections in the world.

THE REFERENCE LIBRARY,

DUKE STREET.

The usefulness and interest of this portion of the institution continue unabated, being in fact only restricted by the limited accommodation provided for the readers. During the year ending 31st of August last, 98,760 volumes have been issued, being an average of 346 per day, to which must be added the readers of the magazines and other periodicals, about 110 per day, making a total of 129,997 books perused, or 456 per day.

The classification of the books read, is as follows:—

Number and Classification of Books read.	Daily average, about	
Theology, Metaphysics, &c.	3640	13
Natural Philosophy	2740	9
Natural History	1484	6
Science and the Arts	2591	9
History and Biography	10321	36
Topography and Antiquities	1358	5
Geography, Voyages and Travels	5294	19
Miscellaneous Literature	10660	37
Law, Politics, &c.	646	2
Commerce and Political Economy	254	1
Education, Logic, Language, &c.	693	3
Poetry and the Drama	4841	17
Novels.....	52283	183
Classical Literature	311	1
Encyclopædias, Heraldry, and Works of Reference..	1644	6
Total.....	98760	

It is naturally to be expected, that in the number of books read in a free library, works of imagination will preponderate, but the preponderance is not so great as would at first sight appear. Novels, to a great extent, are in three volumes, and are read much more rapidly than works of a more solid description; so that it may happen that although the number of volumes in this class taken out and registered far exceeds that in any other class, the number of readers is by no means in the like proportion.

From the date of the last report, (October 18, 1853,) to August 31st, 1854, to which date the accounts will, in future, be made up, in

order to correspond with the financial year of the Corporate Estate. 243 volumes have been added by donation, and 2982 by purchase, making a total of additions, in about ten months, of 3,225 volumes.

The number and classification of the books now in the Library, is as follows :—

	VOLS.
Theology, Morality, and Metaphysics	994
Natural Philosophy, Astronomy, Chemistry, &c.....	547
Natural History, Botany, Geology, &c.	663
Science and the Arts, Architecture, Painting, Music, &c.....	599
History and Biography	2592
Topography and Antiquities.....	707
Geography, Voyages, and Travels	1231
Miscellaneous Literature	2608
Jurisprudence, Law, and Politics.....	1657
Commerce, and Political Economy.....	102
Education, Rhetoric, Logic, and Language	149
Poetry and Dramatic Literature	811
Novels	1926
Classical Literature.....	64
Encyclopædias, Heraldry, and Works of Reference.....	452

Total..... 15,102

This is exclusive of 1200 volumes and 490 parts, being duplicates of Parliamentary papers, and of 308 volumes transferred to the Lending Libraries.

With very trifling exceptions, the books are carefully treated by the readers and protected from injury. A few thefts of books of small value have occurred, some of which have been recovered. In two instances the offenders have been discovered, convicted, and punished by imprisonment.

A valuable addition has been made to the Library during the past year, by the purchase from the Executors of the late Mr. Thomas Binns, of the collections made by that gentleman, illustrative of the history of the County of Lancaster, and more especially of the town of Liverpool. They occupied the leisure hours of forty years of his life, and contain a repertory of illustrations of the past history of the locality, which will increase in value every year, and would in vain be sought for elsewhere. In order to complete and continue the series, the Committee have prepared a portfolio for the reception of illustra-

tions which may offer from time to time, of views, buildings, remarkable events, ships, steam vessels, &c., to which they respectfully invite contributions.

The Collection itself is contained in thirty folio volumes, filled with engravings and drawings. A classified index is in the course of preparation, which will render the Collection more useful for consultation by the antiquary and local historian.

The Reading Room was found to be so inconveniently crowded in the early part of the year, that the Committee were glad to find the means of relief by renting the adjoining house fronting Duke Street, formerly occupied by the Librarian, into which a communication has been opened and a large portion of the books transferred, thus giving a larger area for the use of readers.

The average number of persons reading in the Room during the day is from 70 to 80, and in the evenings from 120 to 140. The Room is badly ventilated, and with this number is inconveniently crowded. Space is also wanted for consulting many expensive books containing designs, which are frequently in demand by artizans in the various branches of ornamental art.

The present condition and working of the Derby Museum and Reference Library are satisfactory and encouraging in the highest degree. The only drawback is the want of space, which is becoming such a crying evil as to require immediate attention. Classification, regularity, and arrangement cannot possibly be attended to when every expedient has to be resorted to, for the purpose of temporary accommodation.

The usefulness of the Institution is marred, and its progress retarded, if not entirely prevented, by the want of a suitable building.

The Committee would draw the attention of the Council to this subject, with an earnest request that steps be taken to appropriate at the earliest possible period the site already granted for the proposed new building.

THE LENDING LIBRARIES.

In accordance with the announcement in the last report, two lending libraries were opened in October, 1853, one at the North and the other at the South Corporation School. The number of volumes at the commencement was about 2,000, with about 30 readers. After ten months operation the number of volumes in the two libraries amounts to 4,435, with a weekly circulation of 1,080 volumes.

The readers using these Libraries between the ages of 14 and 21, are 1,111; between 21 and 35—495; between 35 and 50—159; above this age—35, who may be classified as follows:—

Merchants and Shopkeepers' Apprentices, Office Lads and School Boys,	659
Mechanics, Labourers, Warehousemen and Police Officers	684
Clerks, Shopmen, Teachers, and Scripture Readers	350
Commission Agents and Ship Brokers.....	11
Clergymen.....	4
Medical Students, Druggists, and Dentists.....	12
Business not ascertained (principally Females)	80
Males, 1684; Females, 116. Total..... 1800	

Total number of Tickets granted, 1,902; of these 64 are still uncalled for, and 38 cancelled; 8 by request of the Guarantees, the remainder from leaving town, and other causes.

The following is the classification of the books in the Libraries, and books read :—

	No. of Vols in each Class in Library.	No. Lent in each Class.	Average No. of Times Lent
Theology, Morality, and Metaphysics	124	858	7
Natural Philosophy and Mathematics	120	777	6
Natural History	164	590	3
Science and the Arts	128	634	5
History and Biography	950	5741	6
Topography and Antiquities	36	264	7
Geography, Voyages and Travels	425	2588	6
Miscellaneous Literature	629	3384	5
Jurisprudence, Law, and Politics	28	107	4
Commerce, and Political Economy	31	104	3
Education, Rhetoric, Logic and Language	20	102	5
Poetry and the Drama	210	886	4
Novels and Romances	1548	19808	12
Classical Literature	22	135	6

Total No. of Vols. in the Libraries, 4,435, Lent 35,978, each volume being issued on an average 8 times.

BOOKS MOST READ IN THE VARIOUS CLASSES.

THEOLOGY, MORALITY, AND METAPHYSICS.—Wylie's Bible Scenes, lent 30 times; Robert Hall's Works, 25; Chalmers's Bridgewater Treatise, 24; Pye Smith's Relation between Scripture and Geology, 20; Dick's Christian Philosopher, 17; and Bickersteth's Restoration of the Jews, 17 times.

NATURAL PHILOSOPHY AND MATHEMATICS.—Lardner's Treatise on Arithmetic, lent 41 times; Herschel's Astronomy, 25; Moore's Power of the Soul over the Body, 22. Works on Chemistry have been a good deal sought after. Donovan's Chemistry, issued 31 times; Stockhardt's Experimental Chemistry, 22; and Liebig 12 times.

NATURAL HISTORY.—Buffon lent 27 times, Miller's Old Red Sandstone 15, and Pickering's Races of Man 13 times. Jardine's Naturalists' Library, Goldsmith's Animated Nature, and White's Natural History, of Selborne, have also been in request.

SCIENCE AND THE ARTS.—Works in this class have had a good circulation among Mechanics, who read apparently with a view to

gain information in the several trades in which they are engaged. Reid, on the Construction of the Steam Engine, lent 54 times; Practical Treatise on Mast Making and the Rigging of Ships, 21; Clock and Watch Making, 14; Shipbuilding, 14; Masonry and Stone Cutting, 8; Spencer's Treatise on Music, 21 times.

HISTORY AND BIOGRAPHY have been very popular and are becoming increasingly so. In History, Macaulay's England takes the lead, having been issued 130 times. Gibbon's Rome is next in point of popularity, the earlier volumes having been lent 36 times; Hume and Smollett's England, 33; Lamartine's History of the Girondists, 33; Moore's History of Ireland, 25. Under the head Ecclesiastical History may be mentioned Davie's History of the Inquisition, lent 64 times, and D'Aubigné's Reformation, 27 times.

BIOGRAPHY.—The several Lives of Bonaparte, 141, Wellington, 126, Nelson, 91; Dickens's Life of Grimaldi, 80; Campbell's British Admirals, 33, and Lives of Extraordinary Men, 30 times.

TOPOGRAPHY AND ANTIQUITIES.—Land we live in, lent 41 times; Syers's History of Everton, 27, and Smith's Streets of London, 24 times.

GEOGRAPHY, VOYAGES, AND TRAVELS may be said to rank next in point of popularity to History and Biography. Dickens's American Notes, lent 76 times; Dana's Two Years before the Mast, 73; Borrow's Bible in Spain, 46, and Ruxton's Mexico, 33 times.

MISCELLANEOUS LITERATURE.—Hood's Own, 41; Roby's Traditions of Lancashire, 33; Chambers's Journal and Tracts, Eliza Cook's Journal, Household Words, and the Leisure Hour, have each had a very large circulation.

JURISPRUDENCE, LAW, AND POLITICS.—Works in this class have been lent on an average four times each; the very few works in the Libraries under this head will account for the smallness of the circulation; the same remark will apply to Commerce and Education, in the latter class Haddon's Bookkeeping has been lent 41 times.

POETRY AND THE DRAMA.—Burns's Poetical Works, 70 times; Shakespeare 65, Moore 54, Scott 51, Byron 43, Hood's Poems, 54, and Eliza Cooke's 25 times.

NOVELS AND ROMANCES.—Sir Walter Scott's, the number of times of the volumes lent 1,398, Midshipman Easy 168 times, Rattlin the

Reefer 133, Pelham 120, Pilot 102, Handy Andy 86, Pickwick 77, Henrietta Temple 56. Novels of a nautical character much run upon.

CLASSICAL LITERATURE.—In this class 135 volumes have been lent. Homer's Iliad and the Orations of Demosthenes have been a good deal in request.

Great care is taken of the books by the readers generally, scarcely any cause of wilful injury has been noticed, and out of 36,000 volumes lent only one volume of the value of 2s. 6d. has been lost without replacement. Eight books have been lost by borrowers and replaced, and only in two instances has a guarantee been called on to pay for the defalcation of a reader.

Many persons commence reading a work in several volumes, but comparatively few go right through; for instance, one copy of Gibbon's Rome, the earlier volumes lent 28 times, while later ones have only been lent 3 times, Rollin's Ancient History, 1st vol., 17 readers, the 8th 3; while on the other hand there are many carrying on a consecutive course of reading, evidently with a view to improvement. A labouring man in the north district has read since the Library opened, Gibbons's Rome, Universal History, Macaulay's England, and is now going through Lingard, as he says, "he wishes to know both sides of the question." Another in the same district has read Macaulay, the Universal History, and is now reading Alison. At the South, two working men have read Moore's and Scott's Poetical Works, and one Byron. Another has read Rollin's Ancient History, and is at present going through Alison. A poor man at the extremity of Toxteth Park has been reading ever since the Library opened the "Mirror;" he has now reached the 33rd volume. To obtain this one book it is calculated he has already walked upwards of 100 miles.

It is a noticeable fact, that the larger proportion of solid reading, is among the really working classes, the lighter literature more among young men in offices and shops.

It has been found that works after having circulated from 35 to 40 times, require binding, which may be done to advantage four times. Consequently, a book after having been in the hands of from 150 to 200 readers, will require replacing, the more popular about once every three or four years.

It has been found necessary to impose fines for detention of books

beyond the time allowed. These are paid with the greatest cheerfulness, and have the desired effect in getting them returned in proper time; the amount received from this source and for the renewal of tickets during the year, is £21. 13s. 1d.

The Superintendent adds that the greatest order and decorum is manifested by the readers, no case of misconduct having showed itself.

The picture here presented is a very pleasing and delightful one, and it must be felt by all, that it is desirable to give every encouragement to the class of persons using these Libraries in their aspirations after knowledge and improvement. It is found that two hours in the evening, twice a week, are too short for the proper transaction of the business of the Libraries; not less than 600 volumes having to be received and given out in that time. It is evident that a proper examination of the books returned, and attention to the wants of the readers cannot be given in the hurry and pressure necessarily resulting.

The Committee, therefore, propose to rent a house in each district, north and south, in a suitable locality, where attendance can be given through the day as well as in the evening. The experiment will probably be tried first in the Southern District, and if successful, afterwards applied to the North.

The Committee, in concluding their report, have great pleasure in bearing testimony to the efficient services of their officers and attendants. In an experimental institution, such as this has hitherto been, the success mainly depends on the hearty concurrence and earnestness of the officials employed. In every branch of the establishment, this assistance has been cheerfully and promptly afforded; and to this in a great measure, the rapid progress of the Institution may be ascribed. It is no longer an experiment, but a great fact, the usefulness of which will every year develop itself more and more, in the diffusion of knowledge, the provision of innocent amusement and recreation, and the union of all classes of this great community in the one object of elevation and progress.

Signed, on behalf of the Committee,

J. A. PICTON, Chairman.

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

To amount received from Rate for 1853	£482 12 8
„ Ditto on account of Rate for 1854	3483 4 9
„ Drawbacks from Accounts, and Discounts	3 18 10
„ Fines received from Lending Libraries	21 13 1

Amount carried forward,..... £3991 9 4

 BOTANIC GARDENS.

By Henry Shepherd Curator, Salary one year	£105	0	0
„ Gardener's Wages.....	486	12	0
„ Seeds and Plants	19	4	6
„ Books for the Library	26	13	11
„ Insurance	11	12	6
„ Taxes	7	4	6
„ Coal and Slack	36	3	8
„ Water	10	10	0
„ Mason's Work	3	16	10
„ Glazier's do.	2	9	0
„ Repairs, Iron Work, &c.....	1	15	6
„ Sand and Soil	3	6	6
„ Heating Apparatus	8	5	3
„ Interest on £3,800, at 4 per cent.	152	0	0
„ First instalment to Redemption Fund, 1-30th of £3,800	126	13	4
„ Petty Disbursements, Cleaning Library, Candles, Brushes and Brooms, Nails, Postages, &c.	13	17	2
		£1015	4 8

 Amount carried forward,..... £1015 4 8

By Amount brought forward £3991 9 4

Amount carried forward..... £3991 9 4

By Amount brought forward, £1015 4 8

DERBY MUSEUM.

SALARIES:—

By T. J. Moore. Curator, Salary 1 year....	£120	0	0
„ R. Abbott, Pupil Assistant, ditto	22	10	0
„ Assistant's and Charwoman's Wages ..	260	7	0
„ Assistant's Uniform Clothing	19	8	0
	<hr/>		
	£422	5	0

STOCK AND FITTINGS:—

„ Joiner's Bills for Cases, Boxes, Curtains, &c., &c.	225	4	6
„ Painted Labels	52	0	0
„ Glass for Specimens	33	17	2
„ Hydrometer	4	5	6
„ Insect Boxes	2	2	0
„ Rhinoceros' Skin. £6, Snake, 15s.	6	15	0
„ Books	21	0	0
„ Stoves and Ironmongery	24	13	4
	<hr/>		
	£369	17	6

CURRENT EXPENSES:—

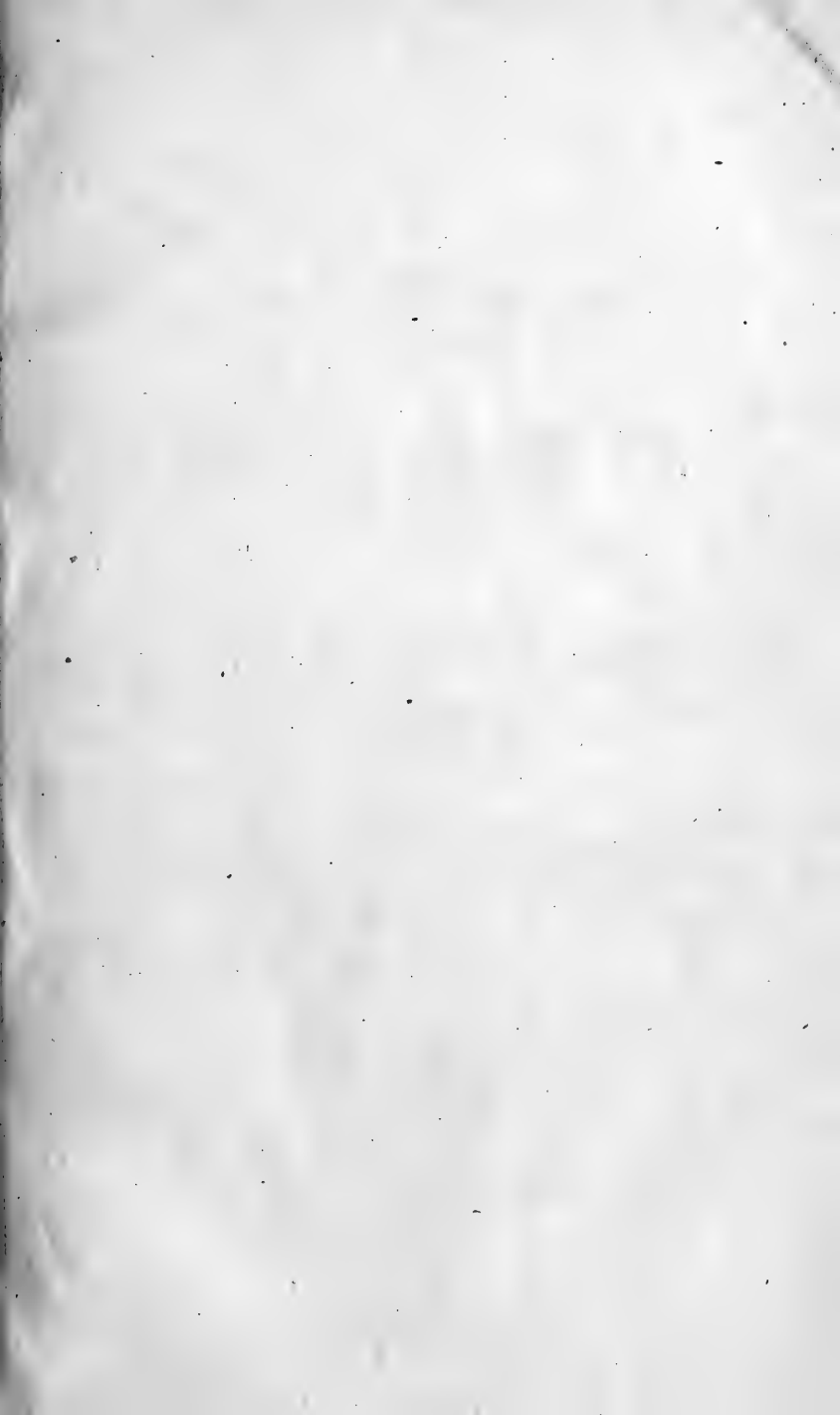
„ Insurance	27	9	0
„ Coals	37	15	0
„ Water	1	8	0
„ Paid Mr. Archer for arranging Imports..	50	0	0
„ Printing Labels and Stationery	15	8	3
„ Paid for Import Cases	9	7	0
„ Repairs, Roof, &c., £3 4s. 11d., Turn- stile. &c., £4 7s. 8d.	7	12	7
„ Plumbing and Glazing	8	4	11
„ Cleaning Model of Liverpool	6	3	5
„ Camphor, Spirits of Wine, &c.	16	6	3
„ Arsenical Soap	1	17	0
„ Brushes £2 5s. 4d., Mats £1 17s. 4d..	4	2	8
„ Scouring Flannel	1	5	0
„ Sweeping Chimneys	1	4	6
„ Carriage of Casts	1	5	8
„ Petty Disbursements	12	11	3
	<hr/>		
	£202	0	6
	<hr/>		
	£994	3	0

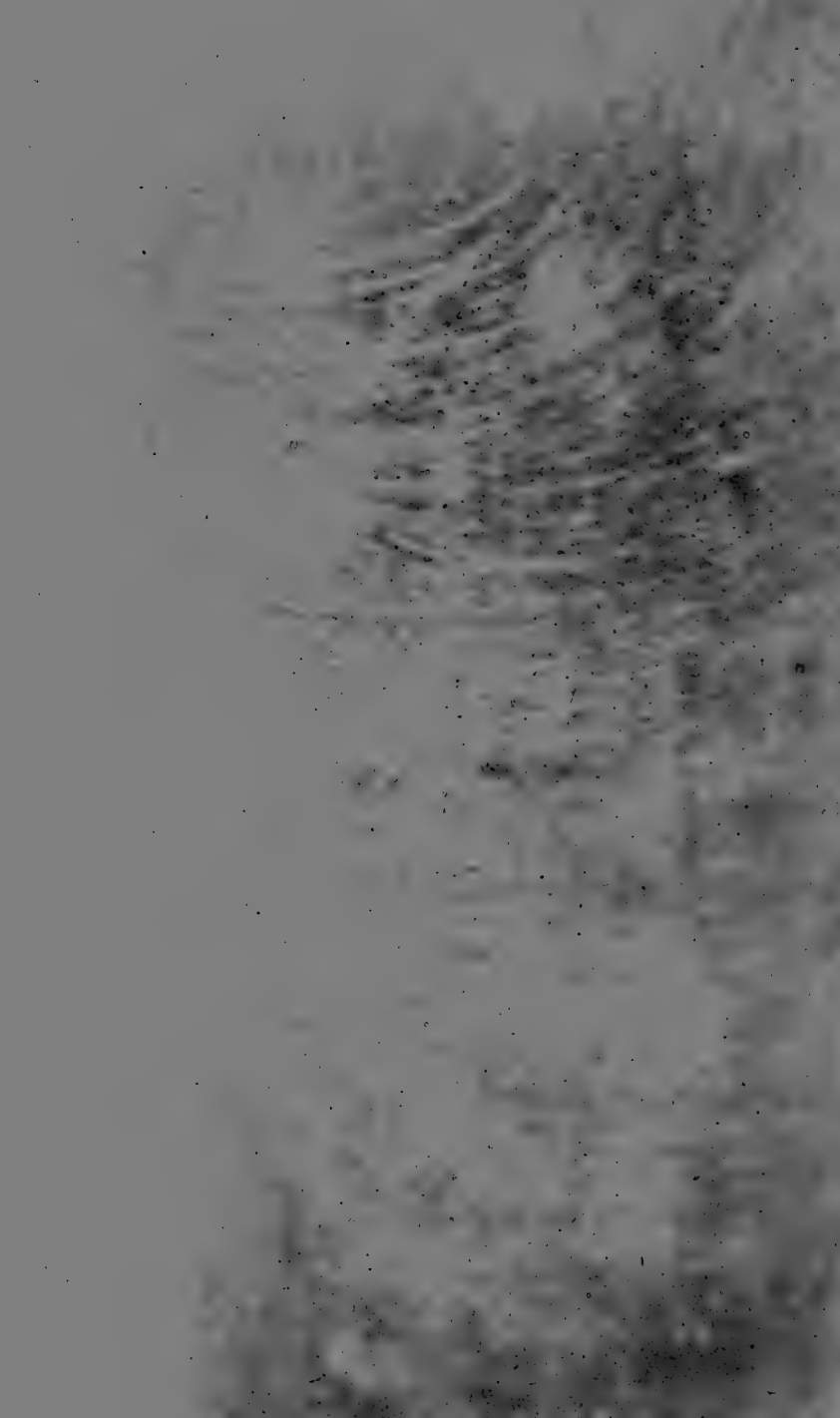
Amount carried forward..... £2009 7 8

To Amount brought forward, £3991 9 4

BRITISH
MUSEUM
10 NOV 33
NATURAL
HISTORY.

Amount carried forward..... £3991 9 4

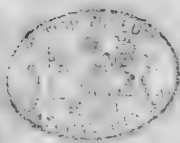




THIRD
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
AND
The Derby Museum,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

OCTOBER, 1855.



LIVERPOOL:
PRINTED BY D. MARPLES, LORD STREET.

Reports for
1853. 1854. 1857. &
1860.

Out of print.

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THE UNIVERSITY OF CHICAGO
LIBRARY

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LIBRARY

REPORT.

THE Committee, in presenting their Third Annual Report to the Council, have pleasure in being able to record the continued progress and increased usefulness of the Museum and Libraries. Whatever doubts might have existed in any minds as to the propriety or desirableness of the establishment of such an institution, must have been dissipated by the great interest exhibited in the undertaking, and the increasing desire shown to participate in its benefits by the operative classes, for whose benefit the Lending Libraries were specially established.

THE DERBY MUSEUM.

The operations in this department have been necessarily restricted, from the fact of the space at its disposal being already overcrowded. Some progress has been made during the year in stuffing and mounting a portion of the skins in store. One hundred and eighty additional specimens of the smaller quadrupeds have been set up in the cases, and twenty-eight of birds. A few skeletons of animals have also been mounted. The naming and cataloguing of the Collection has been gradually proceeded with; and a number of valuable works of reference on Natural History have been purchased.

The number of visitors during the year has been 111,931; being a daily average of 533 for the four days of the week on which the Museum has been open. It is gratifying to remark that the conduct of the visitors has been satisfactory in the highest degree.

The principal donations during the year have been as follows:—

A cast of the large fossil tortoise, (*Colossochelys Atlas*), from the Himalayas; and a very valuable collection of forty-two species of Mammalia, and one hundred and forty-four species of birds, (consisting in all of two hundred and sixty specimens,) from Nepal, Thibet, and other remote parts of Asia; presented by the Honourable East India Company. The principal portion of these specimens are very rare, and are entirely new to the Collection.

A Brahmin bull, and the skeleton of a bison; presented by the Earl of Derby.

A crocodile; presented by J. A. Tobin, Esq., Mayor.

A seal, vervet monkey, black bear, civet cat, and common wolf; presented by Mr. Atkins.

A collection of sixty-three species of Dalmatian shells; presented by Mr. Wright.

A collection of British moths and butterflies, and of some other insects, named and arranged; presented by Mr. F. Moore.

A snake, fish, and a bottle of insects, from the Gaboon River; presented by Captain Walker.

A large specimen of copper and iron pyrites, and carbonate of lime; presented by Mr. John Goldsworthy.

A collection of eighty-eight specimens of silver and copper ores, from Copiapo; presented by D. Graham, Esq.

A small collection of weapons and vegetable productions, from the Niger; presented by Mr. William Guthrie.

A wax model of the Victoria Regia; presented by Mr. T. C. Archer.

Minor contributions have also been received from Mr. R. Lupton, Mr. John Laver, Mr. John Pearson, Mr. Eck, Mr. Atkins, Mr. McFie, Mr. J. Hindle, Mr. J. H. McGrath, Mr. W. H. Leighton, Mr. Rollett, Mr. Shepherd, Captain Townsend Andrews, Mr. James Feeny, Mr. Edward Charlesworth, York; Miss L. Abbott, Mr. F. M. Pritchard, MM. Gaudion, Beziers, Herault; the Albert Dock Committee; Mr. G. F. Martin, Dr. O'Donnell, and Mr. Hulse.

A lioness, a jaguar, two manises, and some minor objects, have also been added to the Collection by purchase.

THE CENTRAL REFERENCE LIBRARY.

The interest of this department is fully maintained; increase in readers being impossible, for want of additional space for them.

The conduct of the readers has been unexceptionable. There has not been a single complaint of injury to the books, or of misconduct of any kind. The only loss has been that of one small volume, of trifling value.

During the year ending August 31, 1855, 100,507 books have been issued and returned; in addition, there have been, on an average, 110 readers per day of magazines, reviews, and other periodicals, not entered in the daily statistics; making a total of 131,912 works perused, or about 462 per day, in the different classes of literature, according to the following classification:—

Number and Classification of Books.	Daily average, about
Theology, Metaphysics, &c.	3128 11
Natural Philosophy	2663 9
Natural History	1220 4
Science and the Arts	3165 11
History and Biography	9343 36
Topography and Antiquities	1097 4
Geography, Voyages, and Travels	4527 16
Miscellaneous Literature	44510 155
Law, Politics, &c.	562 2
Commerce and Political Economy	372 1
Education, Language, &c.	1050 3
Poetry and Dramatic Literature	4936 17
Novels and Works of Imagination	53630 187
Classical Literature	213 1
Heraldry, Encyclopædias, and Works of Reference ..	1496 5
Total	131912 462

During the last twelve months, 88 volumes have been added by donation, and 3,285 by purchase. The number of volumes now in the Library is 18,112, under the following classification:—

Classification.	No. of Vols. Aug. 31, 1854.	Additions during the last 12 months.	No. of Vols. Aug. 31, 1855.
Theology, Morality, and Metaphysics	994	123	1117
Natural Philosophy, Astronomy, Chemistry, &c.	547	40	582
Natural History, Botany, Geology, &c.	663	126	786
Science and the Arts, Architecture, Paint- ing, &c.	599	227	826
History and Biography	2592	537	3103
Topography and Antiquities	707	142	848
Geography, Voyages, and Travels	1231	197	1419
Miscellaneous Literature	2608	1028	3345
Jurisprudence, Law, and Politics	1657	246	1903
Commerce, Political Economy, and Statistics	102	44	146
Education, Logic, and Language	149	16	165
Poetry and Dramatic Literature	811	134	939
Novels and Works of Imagination	1926	472	2379
Classical Literature	64	9	73
Heraldry, Encyclopædias, and Works of Re- ference	452	32	481
Total	15102	3373	18112

This number is exclusive of 1,200 volumes, and 490 parts, being duplicates of Parliamentary Papers; and 363 volumes transferred to the Lending Libraries.

The valuable Binns Collection has been carefully examined and strongly bound, and a copious classified index for reference has been prepared. A commencement also has been made towards the continuation of the Collection for the future. A new Catalogue has been printed, and recently issued, at a price which will place it within the reach of most readers.

Notwithstanding the appropriation of the adjoining house in Duke Street for the reception of books, such has been the increase, as to render a further enlargement of the book space absolutely requisite. This temporary accommodation has been obtained by renting an additional house, into which a communication has been opened, and which will afford ample space for storage purposes for some time to come.

During the last Session of Parliament an Act has been passed, authorising the Council to purchase the land between Shaw's Brow and Clayton Street, as a site for the new Library and Museum building; and it is hoped that, during the ensuing year, some progress will be made in obtaining possession, and proceeding with the erection.

THE LENDING LIBRARIES.

There is no portion of the Institution to which the Committee can refer with such unmixed satisfaction as the Lending Libraries. They were established about two years since, as an experiment, with considerable doubts in the minds of many as to the successful working out of the problem. During the first year considerable caution was observed. The Libraries were deposited at the North and South Corporation Schools, and were only opened on two evenings in the week each. The eagerness evinced by the working classes to obtain books, and the care generally taken of them, encouraged the Committee to enlarge the sphere of their operations. In December last the South Library was removed to premises in Hardy Street, near Great George Street, and opened daily for the issue of books; and in June the North Library was removed to Great Nelson Street North, with similar facilities. The result has been far beyond the expectations of the most sanguine, and presents a very gratifying picture of the desire for knowledge, and of the order and good conduct of those—principally of the humbler classes—who enjoy the privileges of the Libraries.

The number of tickets issued, on the guarantee of two resident householders, during the first year was 1,902; during the second year, 2,689; making in the whole 4,591. Of these 347 have since been cancelled, and 154 are still uncalled for; leaving 4,090 individuals at present entitled to take out books.

The number of volumes in the Libraries at the commencement of the year	
was	4435
Added during the year.....	3619
Present number of volumes	8054

This addition, though comparatively large, has not kept pace with the increase of readers. During the first year, with 4,435 volumes on

the Library shelves, the issue of volumes to readers was 35,978. During the last year, with 8,054 volumes, the issue has been 99,021; being an increase of $81\frac{1}{2}$ per cent. on the books in the Libraries, and 275 per cent. on the issues; or, in other words, whilst in the first year every book in the Libraries was, on the average, lent eight times, during the past year, with the number of books nearly doubled, each volume has been lent above twelve times. The present weekly circulation is 3,014 volumes, and is still increasing.

On one day in the past month, no fewer than 1,248 volumes were received and issued.

The importance which these Lending Libraries are assuming may be judged from the fact, that the number of volumes they now circulate is greater than the combined circulation of the three largest Libraries in Liverpool—the Lyceum, the Collegiate, and the Mechanics' Institutions—containing, probably, ten times the number of volumes.

The care taken of the books is highly creditable, on the whole. Fifteen books have been lost or injured while in the hands of readers. In fourteen of these cases the books have been replaced by the readers themselves; in the remaining instance the book was paid for by the guarantee. It is a fact worthy of notice that, since the commencement, out of a circulation of nearly 140,000 volumes, only one book has been lost to the Library. The system of a small pecuniary fine for irregularity has been found to work admirably. This produces punctuality; and, where incurred, the fines are cheerfully paid. The amount received from this source during the year is £38 0s. 2d.

A few statistics connected with the working of the establishment may not be without interest.

The ages of the readers are as under:—

Between fourteen and twenty-one, 2,689; between twenty-one and thirty-five, 1,102; between thirty-five and fifty, 351; above this age, 102.

Their occupations are as follows:—

Merchants' and shopkeepers' apprentices, office lads, and school boys ..	1499
Mechanics, labourers, warehousemen, and police-officers	1462
Clerks, shopmen, and others employed in shops.....	780
Teachers, pupil assistants, and Scripture readers	163
Commission agents, shopkeepers, and retail traders	66
Students and those engaged in professions	39
Business not ascertained (principally females)	235

Males, 3,879; females, 365.—Total, 4,244.

It will be seen that considerably more than one-half of the readers are under the age of twenty-one years. This is a most hopeful sign for the future, and points to a vast increase of intelligence in the community, as these youths grow up to take their places in the struggle of life, and are constantly succeeded by others with similar tastes and feelings.

The following remarks are made on this subject by the Rev. W. J. Kennedy, Inspector of Schools, in his recent Report to the Committee of the Privy Council on Education :—

“The Free Libraries, to which I have just referred, promise to be a very great help in the work of educating the people. They are already established in several towns in the district, viz., in Manchester, Liverpool, and Bolton; and subscriptions are entered into for one in Preston. Other towns in Lancashire are likely to follow these examples. I regard them as a part—a necessary part—of national education. I have always contended that the work of the elementary school should be much more directed towards developing and strengthening the powers of the intellect, than towards imparting information and a knowledge of facts. The end and aim of the elementary school is not so much to infuse knowledge as to cultivate within a child the power to acquire knowledge. Considering the very early age at which a child leaves such a school, we cannot educate him; but we may, I think, so train him as to make him a self-educator. And here it is that these admirable Free Libraries step in to supply the exact want of the artisan. By means of the Lending Libraries, now happily being attached to elementary schools, and still more by means of these Free Libraries and Museums, which are to contain works of reference, as well as works for home perusal, the youth who has been early compelled to leave school, and to help, at least, to maintain himself, will be enabled to carry on the work of self-education in his leisure moments, if only the elementary school has done its duty by him, and infused into him the taste and the power for private study.”

The very small number of females obtaining books is matter of regret; but it is probable that many more females obtain the perusal of the books procured by the male members of the families to which they belong.

The Libraries were largely used by the working classes during the severe weather in January and February last, when large numbers of the poor were thrown out of employment; as many as 1,100 volumes having been received and lent in a day. A painter, then out of work,

read through the eleven volumes of Thiers' "History of the Consulate and the Empire," and has since been pursuing a course of reading of a highly instructive and useful character. A stonemason, similarly circumstanced, stated to the superintendent that he felt it a great boon to be able to take a book home to his own fireside. Formerly he could not bear being about the house when out of work, and must go, to pass the time, to the public-house, and have his glass of ale and pipe; now he never thought of stirring out when he had a good book to read. Another recently stated that his Library rate of a few pence had saved him many a pound since the opening of the Libraries. Indeed, numerous instances of this kind might be mentioned, to show the benefits arising from their establishment, and the gratitude felt by the people.

The Librarian reports that consecutive reading is on the increase. Several are now earnestly and steadily pursuing courses of study in Chemistry, Botany, and Natural History. A working man recently stated to the superintendent that he had just chalked out for himself a course of historical reading, which would occupy him between three and four years. Others are, again, reading all the works they can obtain, bearing on the various trades and businesses in which they are engaged.

New Catalogues of the books have been published during the year, of which 2,050 copies have been sold. It is proposed in future to publish, at a small cost, additional supplements, from time to time, as the books increase.

The Committee feel gratified in being able to bear testimony to the efficient working of the Institution in every department. It has taken a favourable hold of public opinion. The advantages and benefits it is calculated to confer are becoming every year more and more appreciated; and they trust that a long career of useful influence lies before it in the future.

Signed on behalf of the Committee,

J. A. PICTON,

Chairman.

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

	£	s.	d.
To Cash in the hands of the Librarian, September 1, 1854	14	2	2
„ Amount received from the Rate for 1854	1098	18	7
„ Amount received from the Rate for 1855	4039	3	5
„ Cash received for Sale of Carpet	3	9	4
„ Cash received for Discount, and from Railway, for Error in } Carriage of Books	0	8	2
„ Cash received for Sale of Duplicate Book	1	5	0
„ Cash received for Sale of Catalogues	23	2	6
„ Cash received for Fines at the Lending Libraries	38	0	2
„ Cash received for Tickets Sold	4	7	8
„ Cash received for Renewal of Tickets	1	7	0

Amount carried forward..... £5224 4 0

	£	s.	d.
By Balance due Messrs. Heywood & Co., September 1, 1854	1075	7	1

BOTANIC GARDENS.

By H. Shepherd, Curator, Salary 14 months.....	£122	10	0
„ Gardeners' Wages, 12 months.....	467	18	0
„ Interest on £3,800, at 4 per cent.....	152	0	0
„ Instalment to Redemption Fund, $\frac{1}{3}$ of £3,800	126	13	4
„ Books for the Library	16	5	6
„ Ironmongery, Spades, &c.....	6	3	6
„ Repairing Heating Apparatus	10	10	11
„ Repairing Water Pipes	5	16	9
„ Repairing Turnstile, Clock, &c.	2	18	1
„ Drain Pipes.....	3	8	6
„ Painting, Glazing, &c.	69	17	10
„ Coal and Slack	43	12	5
„ Insurance.....	11	12	6
„ Taxes	8	5	9
„ Water	10	10	0
„ Cleaning Library, Candles, Brushes, Postages, &c. ..	13	15	6

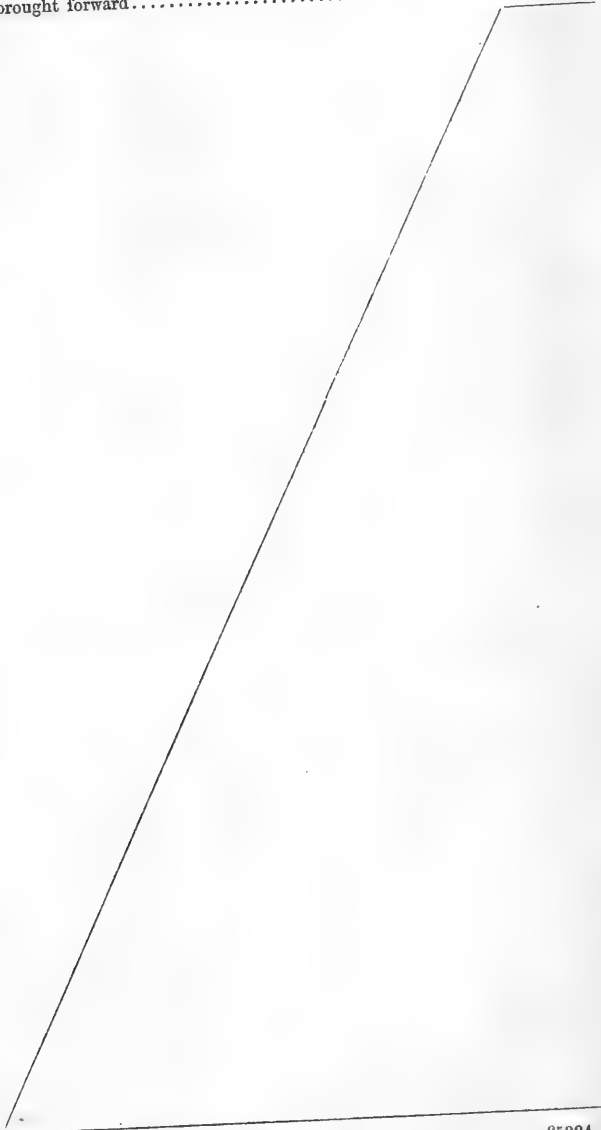
 £1071 18 7

 Amount carried forward..... £2147 5 8

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

£ s. d.

To Amount brought forward..... £5224 4 0



Amount carried forward..... £5224 4 0

	£	s.	d.
By Amount brought forward.....	2147	5	8

DERBY MUSEUM.

SALARIES, WAGES, &c. :—

By T. J. Moore, Curator, Salary 13 months. £151	1	6	
„ R. Abbott, Pupil Assistant, ditto.	35	16	8
„ Assistants' and Charwomen's Wages	257	5	0
„ Uniform Clothing for Assistants.....	21	9	3
	£465	12	5

STOCK AND FITTINGS :—

By Joiners' Work, Boxes, Cases, &c.	£64	1	7
„ Zoological Chart and Tablets for Shells ..	2	12	2
„ Insect Boxes	6	5	0
„ Animals and Birds purchased	10	0	0
„ Ironmongery	3	10	9
„ Book Case.....	5	10	0
„ Box of Colours, &c.	1	19	10
„ Stuffing Specimens	134	10	0
„ Setting up Skeletons, and Stands	30	17	9
	£259	7	1

CURRENT EXPENSES :—

By Insurance	£27	9	0
„ Coals	20	10	2
„ Sweeping Chimneys	1	16	6
„ Repairs, Roof, Turnstile, &c.	10	7	8
„ Papering Rooms	12	1	10
„ Cleaning Model, and Labels for Specimens	4	18	4
„ Spirits of Wine, Soap, &c.	5	17	2
„ Brushes, Scouring Flannel, &c.	7	2	11
„ Carriage of Casts	1	11	9
„ Books and Stationery.....	14	8	2
„ Curator's Expenses to London.....	9	0	0
„ Disbursements, as per Petty Cash Account	20	0	0
	£135	3	6
	860	3	0

Amount carried forward £3007 8 8

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

	£	s.	d.
By Amount brought forward	5224	4	0

Amount carried forward..... £5224 4 0

£ s. d.

By Amount brought forward..... 3007 8 8

CENTRAL LIBRARY.

SALARIES, WAGES, &c.:-

By J. Stuart Dalton, Librarian, Salary 13 months	£183 11 6
„ A. Hughes, Sub-Librarian, Salary ditto ..	86 13 4
„ Wages to Assistant, 2 Boys, Porter, and cleaning the Rooms.....	169 1 0
„ Porters' Uniform Clothing.....	4 7 9
	£443 13 7

FITTINGS AND FIXTURES:-

By Maps and Case, furnished November, 1853	179 12 6
„ Stamping Press and Die	11 16 0
„ Joiners' work, Book Cases, Shelving, &c. .	52 15 0
„ Baize for Book Cases	0 15 6
„ Gas Regulator	13 0 0
	£257 10 0

CURRENT EXPENSES:-

By Assistant, arranging the Binns' Collection .	4 7 6
„ Expenses in preparing the new Catalogue.	10 3 10
„ Boy assisting to stamp the Books, 9 weeks } at 5s.	2 5 0
„ Carriage of Books, Parcels, &c.	9 8 2
„ Postages of Letters, Reports, &c.....	1 13 5
„ Ink, 4s. 6d.; Baize, Dusters, &c., 9s. 2d.; } Candles, 2s. 10d.	0 16 6
„ Librarian's expenses to Newton	0 5 0
„ Oil for Doors, Gum, &c., 5s. 3d.; Pencils, } 2s. 6d.; Sawdust, 4s.	0 11 9
„ Chimneys Sweeping, and Whitewashing } the Cellars.....	2 10 9
„ Stationery, Account Books, &c.....	12 11 9
„ Advertising, £5 5s.; Insurance, £13 9s. 6d.	18 14 6
„ Printing 115,200 Slips, £13 5s.; 250 } Reports, £6	19 5 0
„ Gas and Fittings, £39 17s. 3d.; Rent of } House, £24	63 17 3
„ New Spring for Press, and Winding Clock.	0 16 0
„ Fixtures, &c., in new house, £20; Clean- } ing, Carting Rubbish, &c., 9s.	20 9 0
„ Twine, 1s.; Soap, 4s.; paid balance of } Tailor's Account 5s.....	0 10 0
„ Coal, £10 5s. 1d.; Painting Blinds, &c., } £4 0s. 6d.	14 5 7
„ Brushes, £1; Packing Cases for Patent } Reports, £1 10s. 0d.....	2 10 0
	£194 1 0
	895 13 7

Amount carried forward £3903 2 3

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

	£	s.	d.
To Amount brought forward	5224	4	0
„ Balance due Messrs. Heywood & Co., 1st September, 1855	1133	16	1

£6358 0 1

Amount due from the Rate for 1855 £1156 9 9

	£	s.	d.
By Amount brought forward.....	3903	2	3

BOOK ACCOUNT.

By Cash paid for 3285 Volumes of Books purchased	£1103	3	4
„ Paid J. Gould on account for ditto	50	0	0
„ Binding, Lettering, and Repairing ditto	169	17	3
„ Periodicals and Newspapers	27	4	3
„ Maps and Drawings	10	0	6
		1360	5 4

LENDING LIBRARIES.

SALARIES, WAGES, &c. :—

By W. Roulston, Superin. Librarian, Salary 13 months ..	£108	6	8
„ P. Cowell, Assistant ditto	21	3	4
„ J. Gradwell, Librarian at the North Library	29	5	0
„ J. Rigby, 9 months, £11 5s. 0d.; J. Ryan, £3 8s. 0d .	14	13	0
„ Boys' Wages	10	15	6
„ Cleaning the Rooms	7	9	4

By 3294 Volumes of Books purchased	£516	16	0
„ Binding, Lettering, and Repairing	139	0	4
„ Joiners' work, Shelving, &c.	125	6	3
„ Zinc Tickets, £2 10s. 0d.; two Clocks, £7	9	10	0
„ Printing Forms, Rules, and Cards	17	15	0
„ Stationery, £10 6s. 11d.; five Chairs, £2 12s. 0d.	12	18	11
„ Coals	5	18	9
„ Gas and Fittings, £13 7s. 6d.; Postages, 10s. 9d.	13	18	3
„ Rent, £20; Water and Taxes, £6 12s. 10d.	26	12	10
„ Sweeping Chimneys, 10s. 6d.; Cartage, 35s. 9d.	2	6	3
„ Superintendent's Expenses to Manchester	0	13	0
„ Insurance, £2; Ironmongery, £3 19s.	5	19	0
„ Brushes, Mats, &c.	5	4	3
„ Sundries, Repairing Stable, Locks, &c.	1	2	8
		1074	14 4
„ Cash in the hands of the Librarian		19	18 2

£6358 0 1

Amount advanced by Messrs. Heywood & Co £1133 16 1



PRINTED







FOURTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
AND
The Derby Museum,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

OCTOBER, 1856.



LIVERPOOL:
PRINTED BY D. MARPLES, LORD STREET.

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R E P O R T .

THERE is little of novelty to bring before the Council and the Public at the termination of the fourth year of the establishment of the Free Public Library and the Derby Museum. The Report is the record of steady progress and continued improvement. The Statistics will be found interesting and useful, as affording data for the establishment of similar institutions, and as evidences of the extent of the privileges afforded, and of the desire of the Public to make use of them.

THE DERBY MUSEUM.

The total number of visitors to the Museum during the past year is 106,914, being a daily average of 524. The numbers, compared with the previous year, show an apparent diminution of 5,017, which is accounted for by the Museum having been closed for a fortnight in May, while the plans for the new building were under examination.

The good conduct of the visitors ceases to be a novelty; but the fact is not less interesting than heretofore, as, during the summer months, the great majority have been excursionists — many from Birmingham, Leeds, Nottingham, Preston, and other distant towns. Whatever advantages, therefore, are afforded by the collection, are not confined to Liverpool, but are also enjoyed by many thousands of persons resident over a large portion of the country.

The chief donations during the year are as follows :—

A very valuable collection of 102 specimens of Fossil Remains, from the Sivâlik Hills, N. W. Himalayas, consisting of portions of skeletons of Elephants (several species), Hippopotamus, Sivatherium, &c., &c.; presented by Col. Sir P. T. Cautley.

Skins of a very fine wild Yâk, two Asiatic Argalis, or gigantic Sheep, two Burrhel Sheep, and a Jemlah Goat from the Himalayas, all very rare; presented by Capt. Edmund Smyth, 13th Bengal Native Infantry.

A White-faced whistling Duck, and a dwarf Flamingo; presented by J. A. Tobin, Esq.

An Emperor Penguin, two skulls of the Crab-eating Seal, from the Antarctic ocean, and thirty-eight sterna of Birds from Nepal; from Dr. J. E. Gray.

An Albatross, two Pelicans, &c.; presented by Edward Preston, Esq.

A cast of the leg-bone of a Mammoth, found at Harswell, Yorkshire; presented by the Yorkshire Philosophical Society.

Skulls of a Lion and Tiger; presented by Mr. Joseph Baker.

Two skins of Temminck's Colobus Monkey, and three bottles of Reptiles from Brass River; presented by Edward Lloyd, Esq.

A Dog-fish, a Snake, and Pipe-fish; presented by J. Hindle, Esq.

A Barbary Ape, a Paca, an Ocelot, an Agouti, two Leopard cubs, a Paradoxure, a Bennett's Kangaroo, a Red-vented Cockatoc, two Crocodiles, and a Lizard; presented by Mr. Atkins, chiefly for the Osteological Collection.

An Ostrich, and an Armadillo, also for the Osteological Collection, and a Maximilian's Macaw; presented by Mr. Hulsc.

Minor donations have been received from Miss Roberts, Mr. William Shortiss, Mr. Shepherd, Mr. E. Costigan, Mr. R. Macfie, Mr. A. Tweedie, Capt. Ferguson, Mr. George Connor, Mrs. Macaulay, Chevalier Claussen, Dr. Collins, and Mr. Edmondson.

Ten small Quadrupeds and Birds, a few Reptiles, and a small series of illustrated Hampshire Fossils, have been purchased.

178 specimens of small Quadrupeds, and nine cases of Australian Birds and Nests, have been stuffed; and fourteen skeletons have been set up.

A donation of several valuable books on Zoology has been received from the Earl of Derby.

CENTRAL REFERENCE LIBRARY.

Notwithstanding the confined space to which the readers are limited, it will be seen from the subjoined table, that the number of readers has considerably increased during the year; the number of volumes issued being 153,169, against 131,912 in the previous year. The crowding and inconvenience have been great, 170 or 180 readers being frequently compressed into the reading-room, which is not calculated to hold conveniently more than 100.

The conduct of the readers, and the care taken of the books, have been beyond all praise. Many of the artisans have expressed their gratitude and their high appreciation of the privilege of consulting the valuable works in their various departments, more especially in ship-building, ornamental designs for cabinet and iron work, and the various branches of practical science. It cannot be doubted, that access to works of this class, hitherto for the most part beyond their reach, must contribute to the advancement of our artisans in their several professions, as well as tend to raise them in the scale of intelligence.

The following is the classification of the issues :—

Number and Classification of Books read.	Daily average, about
Theology, Morality, and Metaphysics	4637 17
Natural Philosophy, Astronomy, Chemistry, &c.	4012 15
Natural History, Botany, Mineralogy, &c.	1309 5
Science and the Arts, Architecture, Painting, Music, &c.	5034 18
History and Biography	10475 38
Topography and Antiquities	1272 5
Geography, Voyages, and Travels	5783 20
Miscellaneous Literature	46346 165
Jurisprudence, Law, and Politics	799 3
Commerce, Political Economy, and Statistics	641 2
Education, Logic, Language, &c.	1993 7
Poetry and Dramatic Literature	5218 19
Novels and Works of Imagination	63727 222
Classical Literature	254 1
Heraldry, Encyclopædias, and Works of Reference	1669 6
Total	153169 543

During the last twelve months, 2,908 volumes of books have been added to the Library; 2,458 of these by purchase, 120 by donation, and about 230 from the office of patents; making a total of 21,020 volumes now in the Library, classified as follows:—

Classification.	No. of Vols. Aug. 31, 1855.	Additions during last 12 months.	No. of Vols. Aug. 31, 1856.
Theology, Morality, and Metaphysics	1117	263	1380
Natural Philosophy, Astronomy, Chemistry, &c.	582	65	647
Natural History, Botany, Geology, &c. . . .	786	191	977
Science and the Arts, Architecture, Paint- ing, &c.	826	473	1299
History and Biography	3103	419	3522
Topography and Antiquities	848	77	925
Geography, Voyages, and Travels	1419	277	1696
Miscellaneous Literature	3345	494	3839
Jurisprudence, Law, and Politics	1903	37	1940
Commerce, Political Economy, and Sta- tistics	146	27	173
Education, Logic, and Language	165	31	196
Poetry and Dramatic Literature	939	124	1063
Novels and Works of Imagination	2379	328	2707
Classical Literature	73	4	77
Heraldry, Encyclopædias, and Works of Reference	481	98	579
Total	18112	2908	21020

The readers of works of imagination naturally preponderate, from the numbers of young people who crowd the reading-room every night in search of amusement; but their respectful conduct, deep attention, and improved appearance has been so perceptible since the opening of the Library, that an inference may be safely drawn that the amusement has been blended with instruction.

During the year, the Library has been visited by many distinguished persons; amongst others, H. R. H. the Duke of Cambridge and suite; Mr. Hastings Grant, deputed by the Mercantile Library Association of New York, to inquire and report upon the libraries of Great Britain, who has specially referred in his Report to this Library in terms of high commendation; more recently, the distinguished Earl Stanhope (Lord Mahon) has gone over the Institution, and expressed, in a subsequent communication to the librarian, his high gratification, with the extent and value of the collection and the system pursued.

Some progress has been made since the date of the last Report towards the erection of the new building. A further portion of the property in Shaw's Brow, required for the site, has been purchased. Competition designs have been procured for the building; these are under consideration, but no decision has yet been arrived at.

THE LENDING LIBRARIES.

The encouraging aspect of this part of the Institution has been more than fully maintained during the year. The increase in the demand for books has been beyond all previous calculation, and has reached an extent beyond which it will be impossible to carry it with the present staff and the means now at the command of the Committee.

The progress of the Libraries will be seen at a glance by the following tabular statements:—

Number of volumes issued during the 11 months ending 30th Aug., 1854 ..	35,978
" " " during the year ending 31st Aug., 1855	99,021
" " " during the year ending 30th Aug., 1856	229,348

Out of this number of 364,347 books lent, only four have been permanently lost to the Libraries.

During the year, thirty volumes have been lost or injured whilst in the hands of readers, and replaced. In only four instances have the guarantees been called on to make good the defalcation.

The number of volumes passed through the Libraries in receipts and issues during the year has been 456,947; being at the rate of 1,474 volumes per day, during the 310 days the Libraries have been open.

The rate of increase of the books and readers is as follows:—

	No. of Vols.	Readers.
In the Libraries at the commencement, 18th Oct., 1853 ..	2,000	30
" on the 31st Aug., 1854	4,435	1,800
" " 31st " 1855	8,054	4,244
" " 30th " 1856	13,254	5,200

The total number of individuals who have enjoyed the privilege of borrowing books on the recommendation of two householders since the commencement is 8,350. It was found, however, that many had ceased to use the Libraries, and a regular system of testing and revising the list of readers was adopted, in the beginning of the year. 3,150 have

since been cancelled; this will account for the small increase of borrowers over the previous year. Such constant changes naturally arise from the fluctuating character of the population. The number now given may be taken as a fair estimate of the number of individuals at present borrowing books.

The works in the Libraries are classified as under:—

	Vols.
Theology, Morality, and Metaphysics.....	543
Natural Philosophy	280
Natural History	315
Science and the Arts.....	335
History and Biography.....	2,354
Topography and Antiquities.....	108
Geography, Voyages, and Travels	1,141
Miscellaneous Literature	2,012
Law, Politics, &c.	100
Commerce and Political Economy	73
Education, Logic, Language, &c.	183
Poetry and the Drama	390
Novels and Romances	5,386
Classical Literature	34
Total number of volumes in the Libraries.....	13,254

The books and readers are thus distributed:—

	Vols.	Readers.
Number of volumes in the North District Library	5,896	1,984
Number of volumes in the South District Library	7,358	3,216
Total number in both Libraries.....	13,524	5,200

The proportion of readers being much greater at the South District than at the North, in the distribution of the books this fact has not been overlooked.

The sum of £70 3s. 4d. has been received for fines for detention of books beyond the time allowed. 1,650 copies of the catalogues have been sold, and 2,550 copies of the supplements. A complete catalogue of the South District Library has been recently published, and one for the North is at present in preparation.

The care taken of the books is still highly creditable; but from the continual wear and tear which is going on, from the immense circulation, it will become necessary to replace the more popular works from

time to time. Those which are already nearly worn out are cheap editions of standard popular novels; the paper on which they are generally printed being light and thin, they soon wear out: many will not stand more than 100 or 120 issues, before becoming unfit for use—although some have been in the hands of upwards of 150 readers, and are still in a condition to circulate.

Signed on behalf of the Committee,

J. A. PICTON,
Chairman.

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

		£	s.	d.
1855.				
Sept. 1st.	To Cash in the hands of the Librarian.....		19	18 2
"	" Received for Balance of Rate for 1855.....		1156	9 9
"	" " " " " " 1856.....		4709	10 2
"	" " " for Sale of Duplicate Books ..	£1 13	6	
"	" Discount	0	2	0
"	" Empty Cases returned	0	7	0
"	" Overcharge	0	10	0
"	" Taxes repaid by Landlord	1	10	4
"	" For Six Catalogues	1	16	0
"	" For lost Book	0	6	0
			6	4 10
"	" 1,650 Lending Library Catalogues at 3d., 1,411 at 2d., and 1,139 at 1d.		37	2 7
"	" For Sale and Renewal of Tickets at the Lending Libraries		18	7 8
"	" For Fines at the North Library	£22	6	3
"	" " South Library	47	17	1
			70	3 4
"	" Rent of Stable 12 months, at 13s.		7	16 0
				6 4 10
				37 2 7
				18 7 8
				70 3 4
				7 16 0
				6025 12 0
Amount carried forward				£6025 12 0

	£	s.	d.
By Balance due Messrs. Heywood & Co., September 1, 1855	1133	16	1

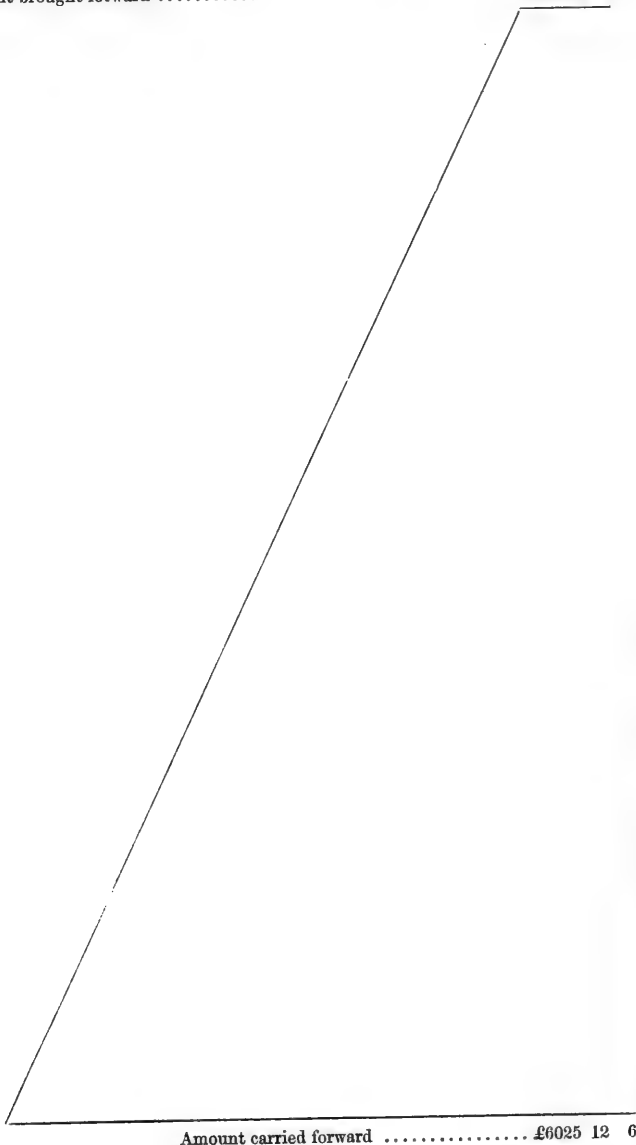
BOTANIC GARDENS.

By H. Shepherd, Curator, Salary 12 months	£105	0	0
„ Gardeners' Wages, 12 months	481	19	0
„ Interest on £3,800, at 4 per cent	152	0	0
„ Instalment to Redemption Fund, $\frac{1}{3}$ of £3,800	126	13	4
„ Books for the Library	7	13	6
„ Plants	£1	10	6
„ Spades, &c.	3	1	3
	4	11	9
„ Coal and Slack	45	15	11
„ Insurance	£11	12	8
„ Taxes	6	19	8
	19	12	0
„ Water	£10	10	0
„ Water Pipes, Repairs, &c.	5	10	4
	16	0	4
„ Painting, Plumbing, and Glazing	58	15	10
„ Repairing Clock	0	7	6
„ Cleaning Library, Candles, Brushes, Postages, &c.	13	7	5
	1030	16	7

Amount carried forward..... £2164 12 8

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

	£	s.	d.
To Amount brought forward	6025	12	6



Amount carried forward	£6025	12	6
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	£	s.	d.
By Amount brought forward	2164	12	8

DERBY MUSEUM.

SALARIES, WAGES, &c. :—

By T. J. Moore, Curator, Salary 12 months	£150	0	0
„ R. Abbott, Pupil Assistant, do.	42	10	0
„ Assistants' and Charwomen's Wages	256	5	0
„ Uniform Clothing for Assistants	18	1	3

STOCK AND FITTINGS :—

By Joiners' Work, Boxes, Stands, &c.	167	1	2½
„ Stuffing and setting up Specimens	99	10	0
„ Setting up Skeletons, and Stands	20	3	0
„ Animals, Birds, Fossils, &c., purchased	18	18	5
„ Glass	24	12	2
„ Books	32	10	0
„ Paid on account of the Model of Rome, Setting up, Repairing, &c.	40	14	4

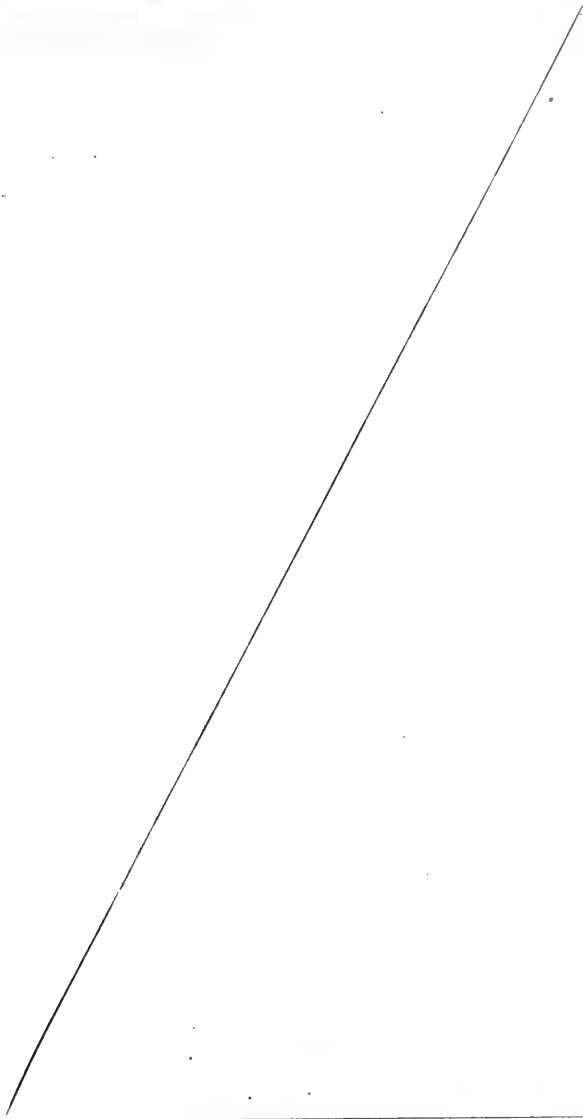
CURRENT EXPENSES :—

By Insurance	30	9	6
„ Coals	35	15	6
„ Water	2	5	0
„ Spirits of Wine, Camphor, &c.	5	19	2
„ Sweeping Chimneys	2	6	6
„ Painting, Plumbing, and Glazing	47	14	4
„ Repairs, Roof, Turnstile, Masons' Work, &c.	19	12	9
„ Cleaning Models, and Fitting up Ancient Liverpool ..	21	19	6
„ Scouring Flannel	0	19	6
„ Carriage of Parcels, &c.	1	7	2
„ Stationery	15	15	5
„ Mat, Baize for Cases, Dusters, &c.	4	15	4½
„ Travelling Expenses	14	11	5
„ Carriage of Specimens for Stuffing, &c.	4	13	11
„ Disbursements as per Petty Cash, viz. :—			
Postage Stamps	£0	15	0
Soap	0	8	0
Sundries	2	10	2½
Cash in Curator's hands	1	0	10½
	4	14	1

1083 4 6

Amount carried forward..... £3247 17 2

	£	s.	d.
To Amount brought forward	6025	12	6



Amount carried forward	£6025	12	6
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	£	s.	d.
By Amount brought forward	3247	17	2

CENTRAL LIBRARY.

SALARIES, WAGES, &c. :—

By J. Stuart Dalton, Chief Librarian, Salary 12 months	£180	0	0
„ A. Hughes to January 1, 1856	26	13	4
„ George Hudson, Sub-Librarian, from January 1	53	6	8
„ Wages to Assistant, Porter, Two Boys, and Cleaning the Rooms	170	13	0
„ Porter's Uniform Clothing	4	10	9

FITTINGS AND FIXTURES :—

By Joiners' Work, New Book Cases, Shelving Rooms, &c.	36	7	1
„ Two New Grates and Four Fire-guards	13	14	8

CURRENT EXPENSES :

By Insurance, £19 0s. 6d.; Coals, £17 19s. 10d.....	37	0	4
„ Gas and Fittings.....	50	10	4
„ Sweeping Chimneys, £1 3s.; Mat, 15s. 2d.	1	18	2
„ Printing 115,200 Slips, £13 5s.; Labels, &c., £3 10s.	16	15	0
„ Reports, £4 2s. 6d.; Advertising, £2 0s. 6d.....	6	3	0
„ Painting and Masons' Work	9	19	9
„ Water, £3 4s. 5d.; Taxes, £4 17s.	8	1	5
„ Books and Stationery.....	7	13	8
„ Rent of Two Houses adjoining the Library	50	0	0
„ Carriage of Books, &c., and for Parcels returned, sent on Inspection	0	13	0
„ Carriage of Patent Reports, £2 19s. 11d.; Forwarding, £1 13s. 4d.	4	13	3
„ Postages of Reports, Letters, &c.	0	19	2
„ Ink, 4s.; Sawdust, 6s.; Pad, 1s.; Sundries, 3s. 6d.	0	14	6
„ Soap, 3s. 6d.; Repairing Clock, 10s.; Coal Boxes, 3s.	0	16	6
„ Pencils, Gum, Brush, Twine, &c.	0	4	9
„ Post-office Orders and Receipt Stamps	0	6	9
„ Brushes, £2 15s. 6d.; Candles, 3s. 8d.	2	19	2
„ Book, 2s.; Ditto, 2s.; Map, 2s. 6d.	0	6	6
„ Paid on Account of Expenses connected with the New Building	57	18	7
		748	19 4

Amount carried forward £3996 16 6

	£	s.	d.
To Amount brought forward	6025	12	6
„ Balance due Messrs. Heywood & Co., September 1, 1856	752	17	9

£6778 10 3

Amount due from the Rate..... £786 4 2

	£	s.	d.
By Amount brought forward	£3996	16	0

BOOK ACCOUNT.

By Cash Paid for 2458 volumes of Books	£951	8	4
" Mr. Gould, Balance of Account	94	0	0
" Binding, Lettering, and Repairing Books....	106	19	10
" Periodicals	18	19	11
" Newspapers	6	2	3
" Drawings	49	13	0
" Printing Catalogues	68	10	0
	1298	13	4

LENDING LIBRARIES.

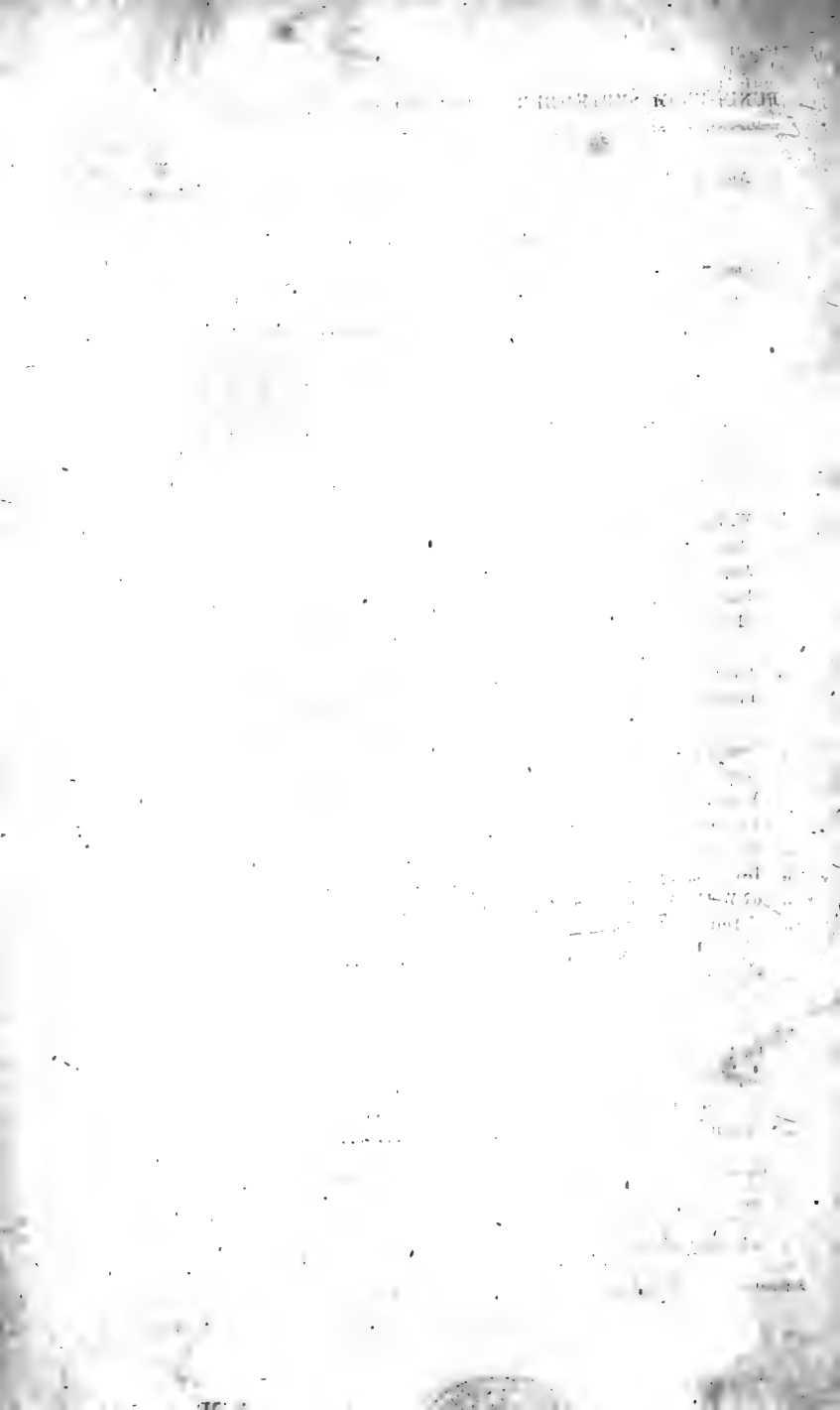
By W. R. Roulston, Superin. Librarian, Salary 12 months..	100	0	0
" Peter Cowell, Assistant, ditto	32	13	4
" James Rigby, Librarian at the North Library, ditto	60	0	0
" Balance of J. Gradwell's Salary	12	0	0
" 5162 Volumes of Books purchased	589	2	2
" Binding, Lettering, and Repairing	212	4	3
" Joiners' Work	42	7	8
" Printing Catalogues, £151 4s. 10d.; Guarantee Notes, Forms, Tickets, &c., £27 1s. 6d.	178	6	4
" Coals, £22 16s. 1d.; Gas and Fittings, £20 18s. 11d.	43	15	0
" Rent, Taxes, and Repairs for the Two Libraries.....	62	13	10
" Water, £3 7s. 3d.; Insurance, £5 10s.	8	17	3
" Brushes, £1 2s. 6d.; Mat, 19s. 10d.; Wire Blind, £2 3s.	4	5	4
" Stationery, £35 19s. 1d.; Upholstery, £6	41	19	1
" Ironmongery	8	4	6
" 52 Weeks' Wages to two Boys, at 5s. each	26	0	0
" Ditto Cleaning the two Libraries, £12 15s. 4d.;			
Sweeping Chimneys, £1 4s.	13	19	4
" Superintendent Librarian's Expenses to Chester, &c.	1	9	2
" Desk and Chairs, £2 6s.; Books, 8s.; Scissors, 1s. 9d.	2	15	9
" Postages, £1 12s. 8d.; Carriage of Parcels, £2 0s. 9d.	3	13	5
" Paid Assistant Writing Catalogue, &c.	10	11	0
" Repairing Pump, Chimney-piece, Bells, Locks, Win- dows, &c.	2	19	9
" Scouring Flannel, Chips, Sawdust, &c.	2	16	6
	1460	13	8
" Cash in the hands of the Librarian, September 1, 1856	22	6	9
	£6778	10	3
Amount advanced by Messrs. Haywood & Co.	£752	17	9

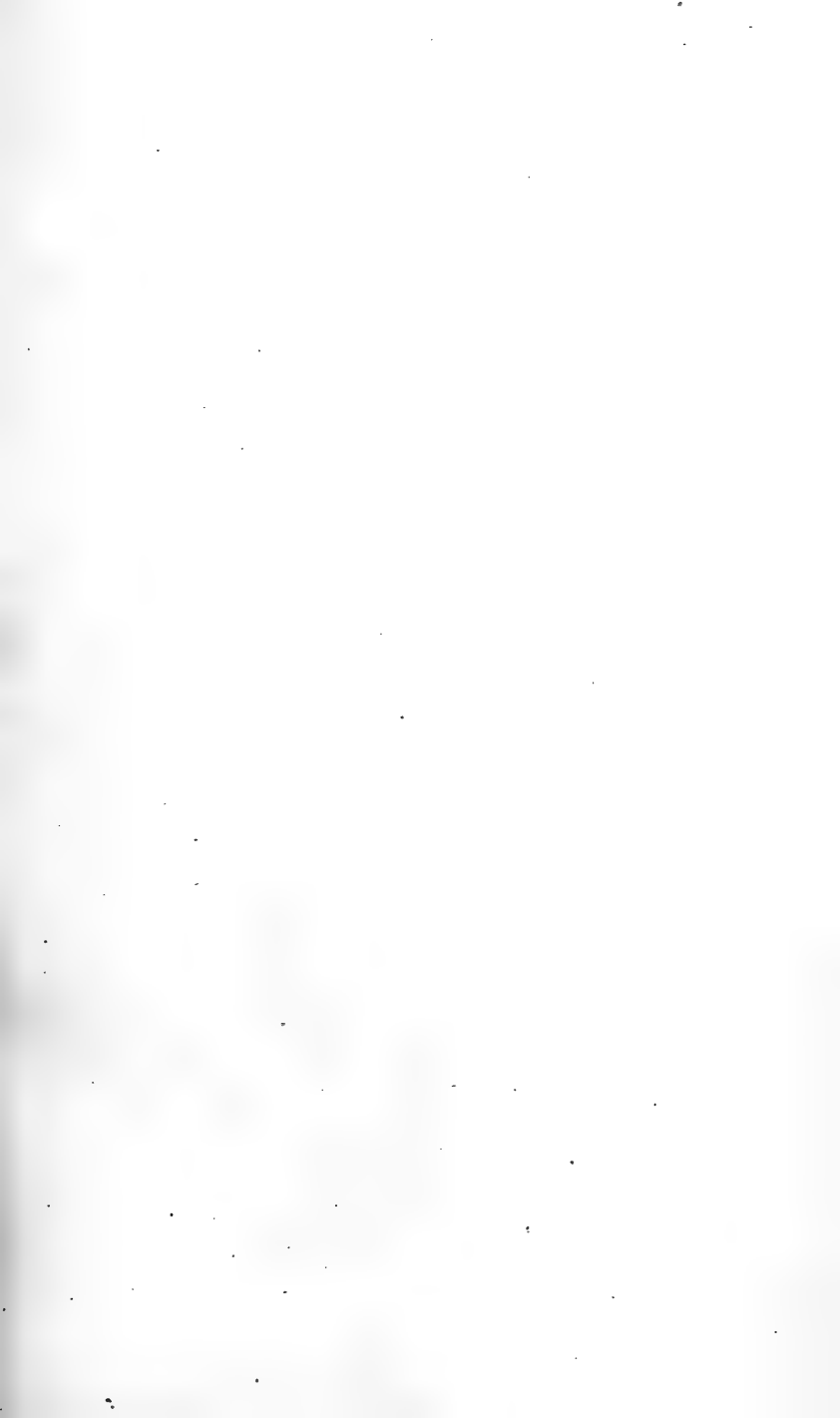
Examined with Books and Vouchers, and found correct,

JOHN H. BALLY, CORPORATION AUDITOR.



PRINTED
15 JUL 1898







BRITISH
MUSEUM

10 NOV 33

NATURAL
HISTORY

FIFTH

ANNUAL REPORT

OF THE COMMITTEE

OF THE

FREE PUBLIC LIBRARY,

AND

The Derby Museum,

OF THE

BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

OCTOBER, 1857.



LIVERPOOL:

PRINTED BY D. MARPLES, LORD STREET.



F I F T H
A N N U A L R E P O R T
O F T H E C O M M I T T E E
O F T H E
F R E E P U B L I C L I B R A R Y ,
A N D
T h e D e r b y M u s e u m ,
O F T H E
B O R O U G H O F L I V E R P O O L .

P R E S E N T E D T O T H E T O W N C O U N C I L ,

O C T O B E R , 1 8 5 7 .



L I V E R P O O L :
P R I N T E D B Y D . M A R P L E S , L O R D S T R E E T .



OFFICERS AND COMMITTEE

FOR THE YEAR 1857.

Committee.

JAMES A. PICTON, Esq, F.S.A., CHAIRMAN.

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JOHN WOODRUFF, Esq.

Chief Librarian.

JOHN STUART DALTON,
DUKE STREET.

Sub-Librarian.

GEORGE HUDSON.

Superintendent of the Lending Libraries.

WILLIAM R. ROULSTON.

Curator of the Derby Museum.

THOMAS J. MOORE.

REPORT.

THE progress of the Institution during the fifth year of its active operations has been highly satisfactory, showing a considerable increase in each department, both in the public demand and in the means of supply.

It may be interesting to place here on record, that the first stone of the New Building was publicly laid on the 15th of April last, by William Brown, Esq., M.P., the munificent donor, in presence of the Municipal Authorities, the Bishop of the Diocese, Lord Stanley, Earl Talbot, &c. The substructure of the edifice has been commenced, and the designs for the superstructure are prepared.

THE DERBY MUSEUM.

The total number of persons admitted to the Museum during the past year amounts to 123,059; being a daily average of 577. These numbers are greatly in advance of the two preceding years, the total for 1856 having been 106,914; that for 1855, 111,931. The conduct of the visitors has been unexceptionable.

The chief Donations during the year have been as follows:—

Four Birds, from New Zealand; presented by F. Shand, Esq., Mayor.

Three Kingfishers, two Bee-eaters, a glossy Starling, a Warbler, an Elephant's Tooth, three small specimens of Tree Coral, &c., from Ambrizette, South West Coast of Africa; presented by J. A. Tobin, Esq.

A green Monkey, a sooty Monkey, a young Leopard, a Lion cub, a Kangaroo Rat, an Owl, and a crested Ground Parrakeet; presented by Mr. J. Atkins.

A Lizard, a Scorpion, a pair of Shark's Jaws, &c.; presented by Mr. J. Edmondson.

A Gibbou Monkey; presented by W. B. Hilton, Esq.

A Long-eared Bat; by Mrs. Chambers.

A Newfoundland Dog; by H. C. B. Thomas, Esq.

Two stuffed Ptarmigan; by Mr. Butterworth.

Six Brazilian Birds; by — Waddington, Esq.

A tufted Duck; by Thomas West, Esq.

A Lion's Skin; by James Steains, Esq.

Two large Serpents, from Mexico; by — Thompson, Esq.

A King Crab, from the Gulf of Mexico; by Andrew Byrne, Esq.

A flying Squid; by Mr. Ilbery.

A small collection of Shells; by Mr. William Williams.

A cluster of Sessile Barnacles, taken from the hull of the ship "Mersey"; presented by the Owners.

A specimen of Coral, from Mexico, and of Gold Quartz, from California; presented by Samuel Baker, Esq.

Five Shillings in Postage Stamps; by an anonymous donor.

Two Chitons, and six Anemones, all *living*, from Hobson's Bay, South Australia, and St. Vincent, Cape de Verde; collected and presented by Samuel Archer, Esq., Surgeon to the "Great Britain," in which vessel they were brought. This donation is highly interesting as demonstrating the possibility of importing alive, from the most distant parts of the world, specimens that cannot be satisfactorily exhibited in any other manner, no means having yet been discovered of preserving the form and colour of very many of the lower forms of animal life.

Minor donations have been received from Messrs. Chaffer, Mr. James Orme, Messrs. Anthony and Robinson, Wilson Allen, Esq., Mr. William M. Coulston, Dr. Baylis, Mr. T. Trevitt, Jun., and an anonymous donor.

Fourteen skins and four skeletons of quadrupeds, and eighty-five skins and thirty-three skeletons of birds, have been purchased during the year. The most important of these are a very fine series of skins and skeletons of Orangs, from the island of Borneo; which, being of very considerable scientific and popular interest, have been set up, and room made for their exhibition.

A series of 817 casts of Seals has been purchased, consisting of a

complete series of the Great Seals of England, and selections from ancient Ecclesiastical, Corporate, and Baronial Seals.

Twenty-four Skeletons have been mounted during the year.

During the year, several Aquaria, both salt and fresh water, have been established in the Museum, and have proved objects of very great interest to the visitors; indeed, there is good reason to suppose, that it is mainly owing to the new additions to the Museum that the number of visitors has been so much in advance of previous years.

Donations for the Aquarium have been received from Messrs. Staley, F. L. Gelling, Thomas West, and Thomas Williams.

CENTRAL REFERENCE LIBRARY.

The words used in last year's Report may again be repeated, that, notwithstanding the previously crowded and confined space, and the facilities for obtaining books from the Lending Libraries, the numbers are still increasing, and the interest still continues unabated.

During the first year, there were 128,638 readers; the second, 129,997; the third, 131,912; the fourth, 153,169; and the fifth, 166,346, which is an average for the last twelve months of 583 per day. The books have been carefully used, the strictest order and decorum still prevail, and among the seven hundred and ten thousand readers, since the commencement of the Library, twenty shillings would cover all the losses sustained. Compared with the last Report, there has been a considerable increase in every class of reading, except that of novels and works of imagination, which exhibits a decrease of 6,130 volumes. From this circumstance, it may be considered a fair inference that the perusal of books of this class has produced a taste for, and been a step to, more valuable studies.

The following is a classified list of books read during the last twelve months, and the number of volumes issued:—

Classification.		Daily average, about
Theology, Morality and Metaphysics.....	6581	23
Natural Philosophy, Astronomy, Chemistry, &c.	6345	22
Natural History, Botany, Mineralogy, &c.....	2061	7
Science and the Arts, Architecture, Painting, Music, &c.	7483	26
History and Biography	12020	42½
Topography and Antiquities	2297	8
Geography, Voyages, and Travels	7923	28
Miscellaneous Literature.....	48425	170
Jurisprudence, Law, and Politics.....	1016	3½
Commerce, Political Economy, and Statistics	907	3
Education, Logic, Language, &c.	3081	10
Poetry and Dramatic Literature	7105	25½
Novels and Works of Imagination	57597	201
Classical Literature	533	2
Heraldry, Encyclopædias, and Works of Reference.....	2972	10

Total..... 166346

During the last twelve months, 2,968 volumes of books have been added to the Library, 2,397 of these by purchase, 456 by donation, and about 115 from the Office of Patents, making a total of 23,988 volumes now in the Library, under the following classification:—

	No. of Vols. Aug. 31, 1856.	Additions during last 12 months.	No. of Vols. Aug. 31, 1857.
Theology, Morality, and Metaphysics	1380	158	1538
Natural Philosophy, Astronomy, Chemistry, &c.	647	74	721
Natural History, Botany, Geology, &c. . . .	977	128	1105
Science and the Arts, Architecture, Paint- ing, &c.	1299	286	1585
History and Biography	3522	479	4001
Topography and Antiquities	925	118	1043
Geography, Voyages, and Travels	1696	162	1858
Miscellaneous Literature	3839	717	4556
Jurisprudence, Law, and Politics	1940	294	2234
Commerce, Political Economy, and Sta- tistics	173	32	205
Education, Logic, and Language	196	40	236
Poetry, and Dramatic Literature	1063	82	1145
Novels, and Works of Imagination	2707	265	2972
Classical Literature	77	10	87
Heraldry, Encyclopædias, and Works of Reference	579	123	702
Total	21020	2968	23988

Many applications have been made from various parts of the country for copies of the Rules and Regulations and other information; and many visitors have expressed their approbation of the general arrangements.

THE LENDING LIBRARIES.

THE issues for the year ending 31st August, 1857, have been 308,200 volumes, and the returns 302,240 volumes, making 610,440 volumes; the actual number passed through hands averaging 1,970 *per diem*, during the 310 days the Libraries have been open for business. Each volume has been lent, on an average, 18 times; or, in other words, the whole of the books in the Libraries have been turned over as many times during the year. These statistics show an increase in the number of volumes lent of 78,852 over the previous year. The only drawback to the still more extensive usefulness of these Libraries is the want of sufficient accommodation for both readers and books.

The following statistics show the progress that the Libraries have made since their establishment in October, 1853:—

	Volumes.	Readers.
In the Libraries at the commencement, 18th October, 1853....	2000	30
" " on the 30th August, 1854	4435	1800
" " on the 31st August, 1855	8054	4244
" " on the 30th August, 1856	13254	5200
" " on the 31st August, 1857	17002	6727

3,748 volumes have been added during the year. Of these, 3,508 have been purchased, and 240 received by donation. Of those purchased 10 volumes are in embossed printing, for the use of the blind, which are proving very attractive to this exceedingly interesting class of readers. Although these books have been only a short time in the Library, there are already fourteen blind persons eagerly enjoying the privilege thus afforded; most of them have expressed themselves to the Superintendent deeply grateful to the Committee for thus placing within their reach a fund of amusement and instruction not otherwise attainable. There are in Great Britain 29,000 blind persons; and of this number, between 500 and 600 are resident in Liverpool. From the interest felt in this department, the Committee have given instructions to procure a number of additional books of this class, the present supply not being sufficient for the demand.

The issues of books during the four years are as follows :—

	Volumes.
Number of volumes issued during the 1st year	35978
" " " during the 2nd year	90021
" " " during the 3rd year	229348
" " " during the 4th year	<u>308200</u>
Total issue since the commencement	672547

Out of this large number, only six books are known to be permanently lost to the Libraries.

During the year, 53 books have been lost or injured while in the hands of readers, and replaced.

The fines for the detention of books are strictly enforced, and are paid in almost every instance with cheerfulness.

	£	s.	d.
Fines received during the 1st year	21	13	1
" " " during the 2nd year	38	0	2
" " " during the 3rd year	70	3	4
" " " during the 4th year	93	3	<u>6</u>
Total amount received since the commencement	226	0	1

The sum of £77 19s. 1d. has been received for catalogues and supplements sold during the year, and £28 5s. 5d. for tickets. A new catalogue for the South Library has been prepared, and is now ready to go to press.

LIVERPOOL FREE

TABULAR MONTHLY STATEMENT OF BOOKS ISSUED

AS COMPARED WITH THE

1856.

CLASSIFICATION.	No. of Vols. in Department.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	July.	August.	Total Issues in each Class.
Theology	543	306	383	531	612	622	638	729	712	650	576	576	558	6953
Natural Philosophy.	280	156	186	265	262	273	319	354	358	371	273	275	272	3364
Natural History....	315	169	191	238	198	278	288	279	286	279	249	256	256	2967
Science and the Arts	335	204	226	316	329	392	421	441	405	430	363	380	348	4255
History and Bio- graphy	2354	1555	1700	1973	2145	2366	2452	2456	2131	2372	2153	2095	1940	25646
Topography	108	64	72	84	95	127	146	136	149	145	126	120	127	1891
Voyages and Travels	1141	849	893	1109	1080	1249	1317	1404	1334	1375	1317	1194	1126	14247
Miscellaneous Literature}	2012	1197	1218	1462	1842	2100	2198	2225	2240	2160	1815	1851	1615	21963
Jurisprudence	100	34	44	52	70	77	66	67	90	89	64	83	52	788
Commerce	73	34	35	54	55	41	67	69	59	51	39	50	48	602
Education	183	113	99	154	164	240	191	191	163	163	148	154	144	1924
Poetry and the Drama	300	248	227	287	270	277	336	331	352	363	322	320	266	3599
Novels and Ro- mances	5386	7731	8982	10293	10913	11708	12144	13221	13283	13519	13172	13377	12880	141223
Classical Literature.	34	22	23	36	35	37	48	44	41	59	33	33	35	426
Total	13254													229318

Each Volume was lent on an average during the year 17 times.

LENDING LIBRARIES.

FOR THE YEAR ENDING THE 31st AUGUST, 1857,

PREVIOUS YEAR, 1856.

1857.

CLASSIFICATION.	No. of Vols. in Department.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	July.	August.	Total Issues in each Class.	Av. No. of times, each vol. lent.
ology	750	605	694	631	728	740	743	828	741	806	760	723	715	8723	11
ral Philosophy.	339	309	329	319	371	389	417	462	365	380	383	392	380	4496	13
ral History.....	858	263	287	239	266	287	303	361	340	306	269	271	264	3456	9
nce and the Arts	367	365	420	371	436	476	511	509	498	447	450	467	402	5292	15
ry and Bio-}	2896	2159	2264	2310	2533	2518	2598	2956	2715	2505	2442	2145	2220	29635	10
aphy	119	130	118	130	143	149	138	179	150	145	141	131	115	1663	14
ography.....	1420	1220	1348	1352	1460	1509	1513	1761	1595	1510	1451	1389	1209	17257	13
ges and Travels	2654	1797	2040	1935	2108	2336	2163	2401	2437	2267	2213	2315	2112	25952	9
ellaneous }	121	64	50	61	76	82	61	63	68	72	44	39	54	734	6
terature}	86	45	51	46	70	56	61	69	61	60	61	54	48	622	8
prudence	234	158	200	168	182	189	204	261	207	195	218	222	201	2415	11
merce	512	280	384	369	386	412	405	448	376	378	344	338	380	4520	9
ication	7110	14051	15419	15185	15919	16623	16275	18026	17626	18684	18387	18320	18379	202894	28
ry and the }	36	37	49	44	48	42	44	49	31	36	28	35	29	475	13
ama															
ls and Ro-}															
ances.....}															
ical Literature															
Total	17002													308200	

Each Volume was lent on an average during the year 18 times.

		£	s.	d.
1856.				
Sept. 1st.	To Cash in the hands of the Librarian	22	6	9
"	" in the hands of the Curator of the Derby Museum..	1	0	10
1857.	" " Donation of Postage Stamps to Museum	0	5	0
"	" " Duplicate Books, &c., disposed of	1	10	2
"	" " Received for Fines for the Detention of Books at the Lending Libraries—			
	North Branch	£26	2	0
	South Branch	67	1	6
		<hr/>		
			93	3 6
"	" Received for Catalogues sold—			
	2750 Copies, at 6d. each	£68	15	0
	475 Copies, at 3d. each	5	18	9
	392 Copies, at 2d. each	3	5	4
		<hr/>		
			77	19 1
"	" Received for Tickets and their Renewal	28	5	5
"	" Lost Book paid for	0	5	0
"	" Rent of Stable for 12 months	7	16	0
"	" Received from the Rate	1730	12	4

Amount carried forward..... £1963 4 1

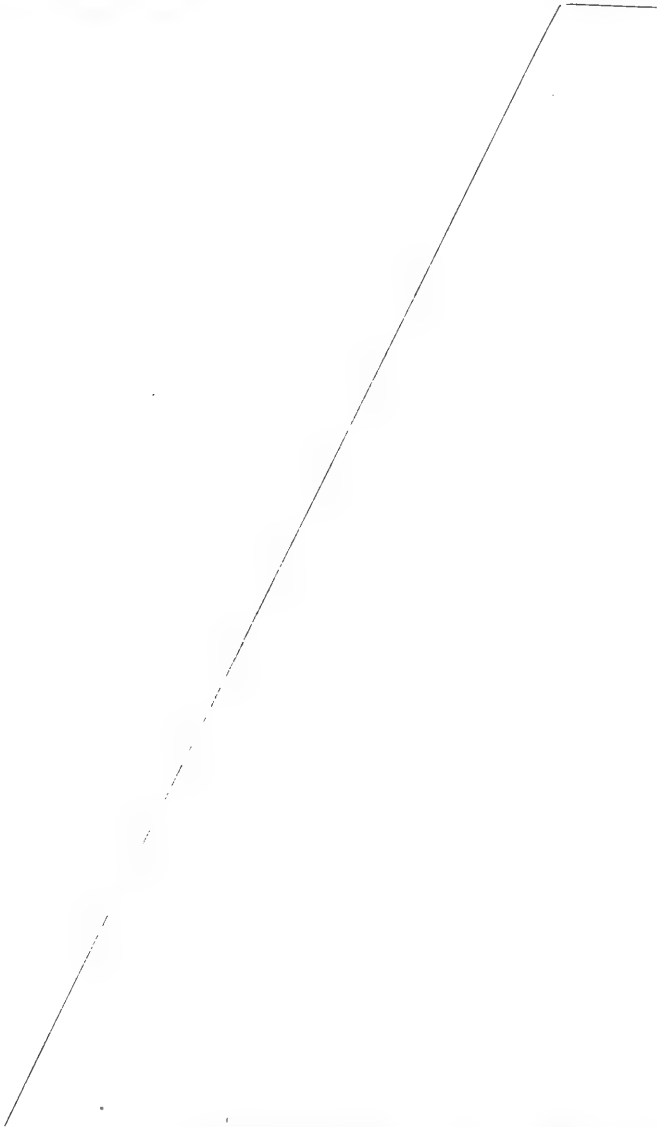
1856.		£ s. d.
Sept. 1st.	By Balance due Messrs. Heywood & Co.	752 17 9

BOTANIC GARDENS.

By H. Shepherd, Curator, Salary 12 months	£105 0 0	
„ Gardeners' Wages, 12 months	494 0 0	
„ Books for the Library	4 17 6	
„ Coal and Slack	48 11 10	
„ Insurance.....	11 12 6	
„ Taxes	8 16 0	
„ Mason's Work.....	28 18 6	
„ Mats and Cement	1 12 0	
„ Repairing Clock	0 15 0	
„ Ironmongery	1 9 6	
„ Stationery	0 19 9	
„ Wheelbarrows	5 0 0	
„ Cleaning Library, Candles, Brushes, Postages, Carriage, &c.	12 7 0	
	723 19 7	

Amount carried forward..... £1476 17 4

To Amount brought forward £ s. d.
1963 4 1



Amount carried forward..... £1963 4 1

	£	s.	d.
By Amount brought forward	1476	17	4

DERBY MUSEUM.

SALARIES, WAGES, &c. :—

By T. J. Moore, Curator, 12 months	£150	0	0
„ R. Abbott, Pupil Assistant, do.	52	10	0
„ Assistants' and Charwomen's Wages	255	0	0
„ Uniform Clothing for Assistants	24	11	6

STOCK AND FITTINGS :—

By Joiner's Work, Cases, Stands, &c.	57	15	7
„ Do., for Planes, Bench, &c.	4	3	5
„ Timber, £10 5s. 6d.; Ironmongery, £5 13s. 10d.	15	19	4
„ Stuffing and setting up Specimens	64	19	7
„ Specimens purchased	240	2	6
„ Aquaria, Specimens, &c.	39	19	1
„ Copies of the Great Seals of England, &c.	21	4	7
„ Lenses, £1 1s.; Cabinet, £5 5s. 6d.	6	6	6

CURRENT EXPENSES :—

By Insurance, £36 13s. 4d.; Coals, £22 16s. 10d.	59	10	2
„ Water, £2 5s.; Spirits of Wine, &c., £10 1s. 2d.	12	6	2
„ Masonry, Repairs of Stoves, Glass, Painting, &c.	14	19	0
„ Sweeping Chimneys, £1 16s.; Cleaning Models of Liverpool, &c.	13	9	0
„ Mats, Baize, Flannel, Soap, &c.	8	2	4
„ Cord, Brushes, &c.	3	1	1
„ Stationery, £7 15s.; Drawing Materials, £2 1s. 2d.	9	16	2
„ Travelling Expenses	17	15	7
„ Postages, Stamps, and Sundries	5	1	6
„ Cash in the hands of the Curator	2	17	5

1079 10 6

Amount carried forward..... £2556 7 10

	£	s.	d.
To Amount brought forward	1963	4	1

Amount carried forward..... £1963 4 1

	£	s.	d.
By Amount brought forward	2556	7	10

REFERENCE LIBRARY.

SALARIES, WAGES, &c. :—

By J. Stuart Dalton, Chief Librarian, Salary 12 months	£180	0	0
„ George Hudson, Sub-Librarian, Salary 12 months....	80	0	0
„ Wages to Assistant, Porter, Two Boys, and Cleaning the Rooms	169	13	0
„ Porter's Uniform Clothing	6	0	3

FITTINGS AND FIXTURES :—

By Joiner's Work, Book Cases, Shelves, &c.	28	18	4
---	----	----	---

CURRENT EXPENSES :—

By Gas, £38 13s. 8d.; Coals, £11 8s. 3d.	50	1	11
„ Rent and Taxes, £52 12s. 1d.; Water, £1 2s. 5d.	53	14	6
„ Paid Extra Assistant, for Writing Catalogue, &c.	9	6	8
„ Whitewashing, Repairs in Masonry, &c.	6	17	7
„ Insurance	18	6	8
„ Brushes, &c., £2 6s.; Stationery, £5 15s.	8	1	0
„ Repairing and Regulating Clock	0	16	6
„ Printing Slips and Supplementary Catalogue	53	13	0
„ Paid for Packing and Forwarding Patent Reports	3	14	7
„ Postages of Reports and Letters, Post Office Orders, Stamps, &c.	2	5	9
„ Carriage of Books, Patent Reports, and Parcels re- turned of Books sent on Inspection	16	6	5
„ Sweeping Chimneys	1	1	6
„ Baize and Tacks for Book Cases	0	15	6
„ Ink, Sawdust, Soap, Twine, Sealing Wax, Nails, Gum, Candles, Pens, and Pencils	1	17	3
	691	10	5
„ Paid on Account of Expenses connected with the New Building....	80	3	5

BOOK ACCOUNT.

By Paid for 2397 volumes of Books purchased	£1395	9	2
„ „ Periodicals	14	14	4
„ „ Binding, Lettering, and Repairing	118	7	8
	1528	11	2
Amount carried forward	£1856	12	10

	£	s.	d.
To Amount brought forward	1963	4	1
„ Balance due Messrs. Heywood & Co., September 1, 1857	4179	12	5

£6142 16 6			
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Amount due from the Rate £5488 3 9

	£	s.	d.
By Amount brought forward	4856	12	10

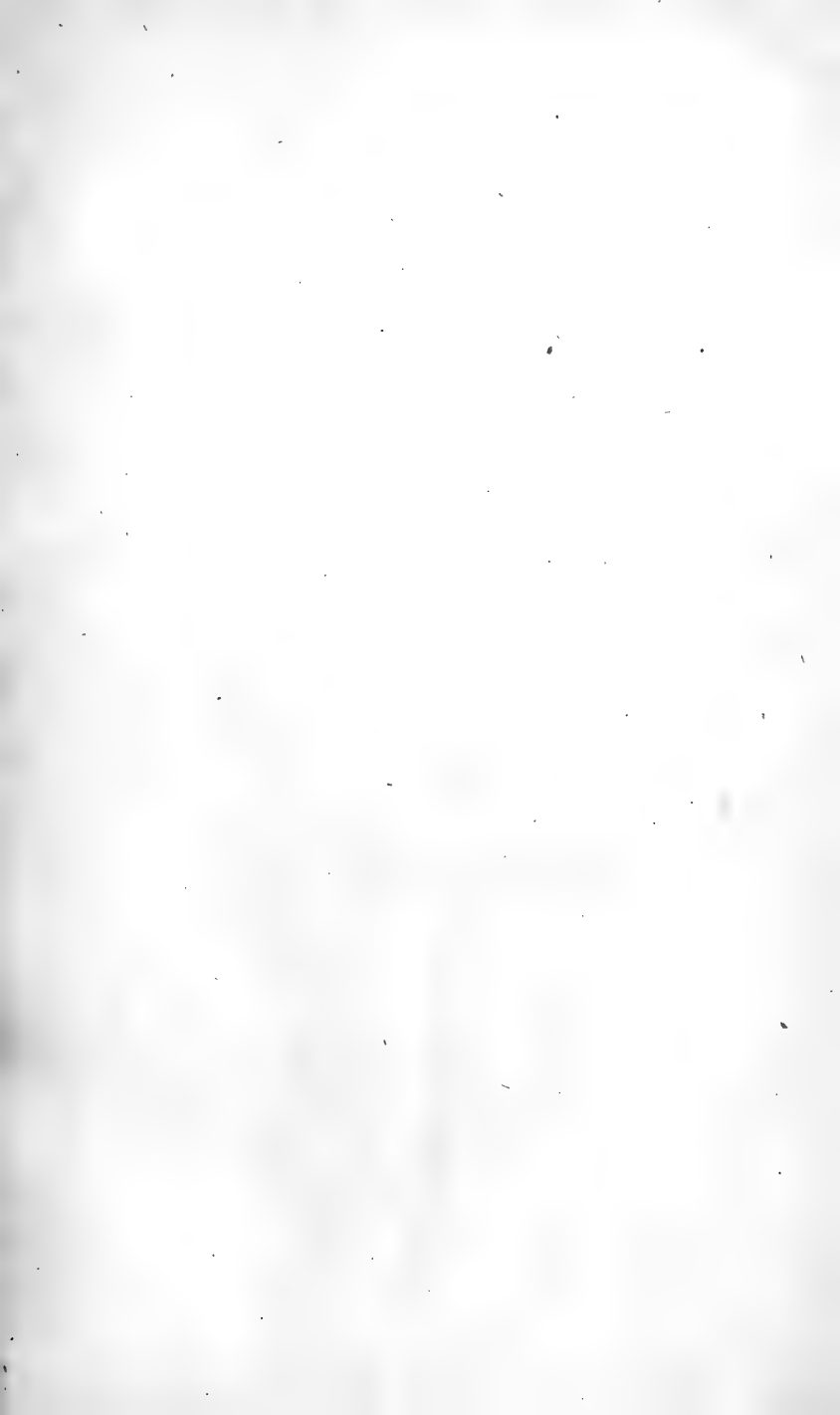
LENDING LIBRARIES.

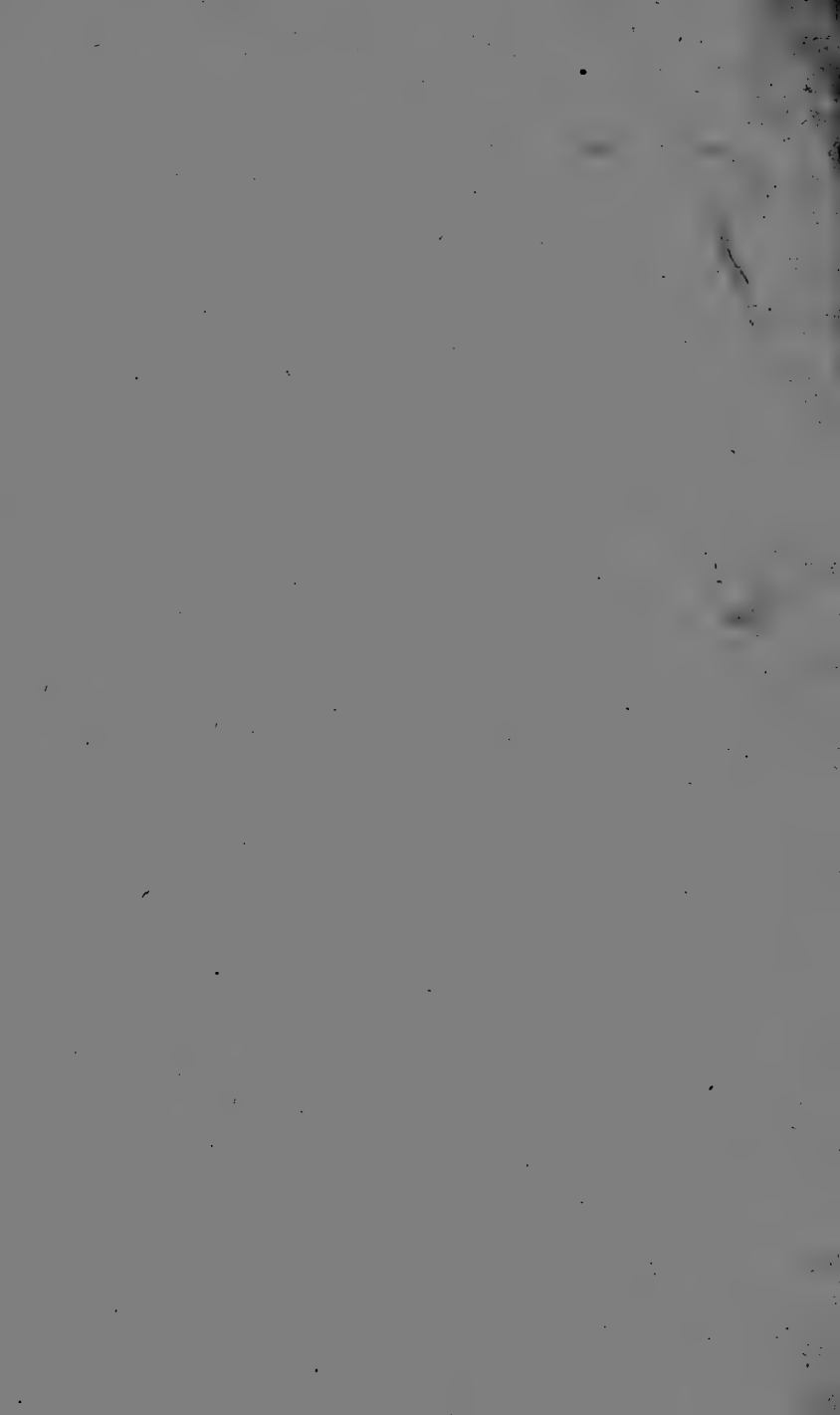
By W. R. Roulston, Superin. Librarian, Salary 12 months ..	£100	0	0
„ Peter Cowell, Assistant, ditto	39	0	0
„ James Rigby, Librarian at the North Library, ditto	60	0	0
„ Printing Catalogues, £74 6s. 6d.; Forms, Tickets, &c., £42 8s. 6d.	116	15	0
„ Gas, £12 2s. 10d.; Coals, £18 18s. 7d.....	31	1	5
„ Stationery, £9 12s. 3d.; Water, £2 15s. 2d.....	12	7	5
„ Ironmongery and Iron Work.....	1	17	3
„ Joiner's Work	22	3	10
„ Rent and Taxes	71	10	0
„ Brushes, Repairing Locks, Clock, &c.	2	7	2
„ Painting, &c.....	12	4	2
„ 3508 volumes of Books Purchased	£518	0	11
„ Repairing, Lettering, and Binding Books ..	195	11	8
	713	12	7
„ Boys' Wages, £38; Assistant Writing Catalogues, &c., £14 5s.	52	5	0
„ Cleaning Libraries, £15 12s.; Floor Cloths, Sawdust, &c., 17s. 7½d.	16	9	7½
„ Carriage of Books, £1 4s. 1d.; Ink, Gum, &c., 7s. 2½d... ..	1	11	3½
„ Sweeping Chimneys, 9s.; Dusters, 5s. 10d.; Putting in Coals, &c., 9s.	1	3	10
„ Expenses to Chester, 16s. 8d.: Glazing Windows, &c., 14s. 2d.	1	10	10
„ Postage, £2 18s. 6d.; Replacing Books, £1 9s.	4	7	6
„ Ventilator, 9s.; Repairing Lamp, 4s.	0	13	0
„ Repairing Water Pipe, 5s. 10d.; Resetting Grate, 6s. 4d.	0	12	2
„ Lock, 1s. 4d.; Water Barrel and Bucket, 8s. 9d.; Re- pairing Ladder, 1s. 6d.	0	11	7
	1262	3	8
„ Cash in the hands of the Librarian	24	0	0
	<u>£6142</u>	<u>16</u>	<u>6</u>
Amount advanced by Messrs. Heywood & Co.....	£4179	12	5

Examined with Books and Vouchers, and found correct,

JOHN H. BALLY, CORPORATION AUDITOR.

BRITISH
MUSEUM
10 NOV 33
NATURAL
HISTORY.





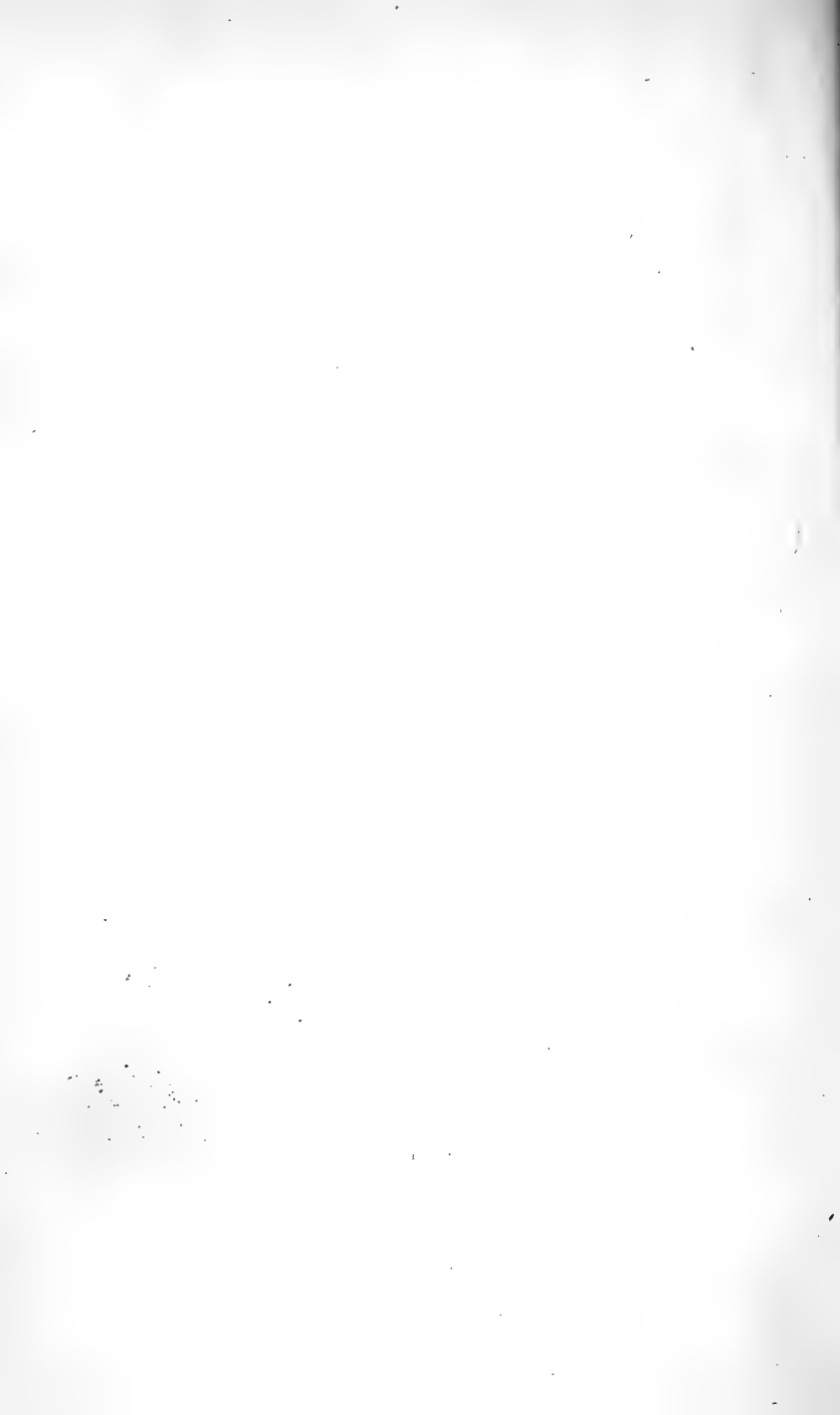
SIXTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
AND
The Derby Museum,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

OCTOBER, 1858.



LIVERPOOL
PRINTED BY D. MARPLES, LORD STREET.



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THE UNIVERSITY OF CHICAGO
LIBRARY

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LIBRARY

THE UNIVERSITY OF CHICAGO
LIBRARY

ATHERTON



THE UNIVERSITY OF CHICAGO
LIBRARY

OFFICERS AND COMMITTEE

FOR THE YEAR 1858.

Committee.

JAMES A. PICTON, Esq., F.S.A., CHAIRMAN.

RICHARD M. BECKWITH, Esq., DEPUTY-CHAIRMAN.

JOHN AIKIN, Esq.

WILLIAM BROWN, Esq., M.P.

WILLIAM BENNETT, Esq.

C. T. BOWRING, Esq.

C. J. CORBALLY, Esq.

WILLIAM EARLE, Esq.

T. L. HODSON, Esq.

R. HUTCHISON, Esq.

GEORGE HOLT, Esq.

JOSEPH KITCHEN, Esq.

JOHN LAWRENCE, Esq.

CHARLES MOZLEY, Esq.

JAMES STEAINS, Esq.

JOHN J. STITT, Esq.

JOHN WOODRUFF, Esq.

Chief Librarian.

JOHN STUART DALTON,

DUKE STREET.

Sub-Librarian.

GEORGE HUDSON.

Superintendent of the Lending Libraries.

WILLIAM R. ROULSTON.

Curator of the Derby Museum.

THOMAS J. MOORE.

THE UNIVERSITY OF CHICAGO
LIBRARY

PHYSICS DEPARTMENT
5712 S. UNIVERSITY AVE.
CHICAGO, ILL. 60637

PHYSICS 309
LECTURE NOTES

BY
J. J. THORNTON
AND
R. P. FEYNMAN

1966

PHYSICS 309
LECTURE NOTES

BY
J. J. THORNTON
AND
R. P. FEYNMAN

REPORT.

THE results of the Sixth Year's experience in the history of the Institution generally are of such a character as more than justify the anticipations of its promoters, and must be gratifying in the highest degree to the advocates of progressive education.

The very contracted space to which every department has been hitherto confined had, it was supposed, long ago, presented a barrier which would prevent advance until the boundaries could be enlarged; but such has been the demand and pressure for books, that any inconvenience has been submitted to in order to obtain the desired end. It is only justice to the officers of the Institution to state that nothing could exceed the cheerfulness with which the most intense labour and activity, in the midst of a vitiated atmosphere, have been cheerfully endured, to satisfy the public craving for the means of knowledge.

The Museum and Libraries have now taken a prominent place amongst the institutions of the town, a position, the importance of which is yearly increasing, and which will in a few years reach a magnitude and extent which is little thought of. So noiselessly and unobtrusively have its affairs been conducted, that there have been no salient points for public attention to take hold of, except on a few isolated occasions. It may therefore create some surprise to be told that, at the present time, a larger number of volumes are issued from the Liverpool Free Public Library in the same period of time than from any library in the kingdom, or, it is believed, in the world. The details will be found under the respective heads, but it may here be briefly stated that the issues during the past year have been —

From the Reference Library	195,453 vols.
From the Lending Libraries	391,413 "
Making a total of	586,866 "

being an increase over the previous year of 112,320 volumes, or about 24 per cent.

The new building in Shaw's Brow is proceeding with vigour and rapidity. The contracts have exceeded the £30,000 so nobly dedicated to this purpose by Mr. Brown, but his generosity has removed all difficulty by taking the matter entirely upon himself. The area of the erection covers above 6,000 square yards on each floor, which will give ample room for the full development of every branch of the establishment.

An opportunity occurred during the past year by which the Committee were enabled to purchase on very reasonable terms a collection of Casts from some of the finest Statues of antiquity. These are at present deposited in St. George's Hall, and are intended for the Gallery of Art in the new Museum.

In the scientific department, a fine collection of Fossils and Shells has been obtained by purchase from Mr. Charlesworth, of York, containing 350 species of existing Shells, principally British, and about 1,500 species of Fossil Remains. Many of the tertiary fossils in this collection were from the museum of the late Dr. Mantel, and are specially worthy of notice.

A very extensive series of Weapons of savage nations used in warfare, many of them unique, collected by the late Capt. Savage, R.N., of Her Majesty's Dockyard, Portsmouth, has been purchased, constituting one of the finest ethnological series existing.

The pressure on the Lending Libraries has been so great as to cause the utmost anxiety for an extension or enlargement. This has now been happily accomplished. For the South Library two houses in Parliament Street, opposite St. James's Church, have been purchased, and altered so as to form very commodious premises for the Library purposes, with residence for the Librarian, &c. The entire cost has been about £1,500, the greater part of which will be borrowed under the powers of the Library and Museum Act.

An arrangement is in progress for giving similar increased accommodation to the North Lending Library, by the enlargement of the existing premises.

The following particulars in each department will be found not devoid of interest.

THE DERBY MUSEUM.

The total number of visitors during the year amounts to 124,687, being a daily average of 582. This number is in excess of several previous years, as will be seen from the following summary:—

Total for the year ending August 31, 1855	.....	111,931
" " " 1856	.....	106,914
" " " 1857	.....	123,059

The following Donations have been received:—

A large pair of Horns of the South African Ox; presented by James Aikin, Esq.

A pair of Horns of the American Moose Deer; by A. G. Macgregor, Esq.

Male and female specimens of the Common Seal; by Mr. Wm Gass.

A Red Coati-Mondi; by Samuel Moss, Esq.

A Climbing Ant-Eater; by Anthony Cumming, Jun., Esq.

A Toco Toucan; by J. Atkins, Esq.

A Wandering Albatross; by — Jones, Esq.

A small collection of Reptiles, &c., in spirit, from Mexico (including several specimens of the remarkable amphibious animal known as the Axolotl); by R. Buckley, Esq.

A very interesting collection of Reptiles, Fish, &c.; by J. O. W. Fabert, Esq.

Two large Snakes, a Viper, five Birds, and other specimens, from Ambrizette, South West Coast of Africa; presented by J. A. Tobin, Esq.

A rare Pipe Fish, caught in the Mersey; presented by William Scott, Esq.

A collection of Snakes, Reptiles, &c.; by Miss Roberts.

A Snake, Lizard, and Centipede; by Mr. Edwin Lewis.

A Water Snake; by Captain Lamb.

The Skin of a large Boa, from Maranham; by H. W. Moon, Esq.

The Skull of a Camel; by Mr. Crisp.

An Ostrich, an Illinois Parrakeet, and a Vulpine Opossum, for the osteological collection; by Mr. Hulse.

A White-tailed Sea Eagle, do.; by Mr. Atkins.

Fifty-five species of Shells, from Hobson's Bay, St. Vincent, Cape de Verd, and Bombay; collected and presented by Samuel Archer, Esq.

Thirty-three species of British Marine Shells; by T. C. Eyton, Esq.

A valuable series of Skulls, Horns, &c., discovered in the excavations for the Birkenhead new docks; presented by the Birkenhead Dock Committee. Among the most important of these are splendid Skulls and Horns of two extinct species of Ox.

Twenty-five specimens of Minerals and Ores; presented by Thos. Chaffer, Esq.

Eleven Rock specimens and eight Fossils, from the Isle of Man; by Thos. Gelling, Esq.

A sample of Native Gold, from Merionethshire; by Percy W. Hewgill, Esq.

Three specimens of Sulphur, from Licata; by Captain Foote.

One hundred and fifty specimens of cut Chrysolite, from Brazil; by Mr. James Hornby.

A specimen of pure Plumbago, from Borrowdale; by Mr. Robert Wilson.

A small collection of Geological and Ethnological specimens, from Canada and Iceland; by Major Chambers, 6th Royal Lancashire Regiment.

A collection of miscellaneous specimens, chiefly Chinese; presented by Dr. Lockhart, Medical Missionary, Shanghai.

Eight Clubs and Sticks, made from Rhinoceros Horn, from South Africa; by James Steains, Esq.

Twenty Ethnological and other specimens; by Miss Robson.

A sample of Silk, obtained by chemical process from the leaves of the mulberry tree; presented by W. Brown, Esq., M.P.

A Door from the old Tower formerly situate in Water Street; by Mr. Stonehouse.

Minor Donations have been presented by Messrs. Joseph Ingham, G. M. Brown, Thomas West, J. Hindle, J. Edmondson, J. Hunter, W. Williams, J. Orme, J. Holmes, J. Eck, J. Dunn, T. Key, the Rev. W. B. Lee, Miss Southern, Miss Harrison, Mrs. Oldred, and an anonymous Donor.

Specimens for the Aquarium have been presented by the Hon.

Lady Cust, the Rev. Mr. Bannister, Dr. Edwards, and Messrs. G. Brown, F. L. Gelling, T. West, W. Hanna, and J. Mackenzie.

Sixteen specimens of Quadrapeds, fifty Birds, thirty-two Reptiles, and eight Skeletons have also been purchased during the year. The most important of these are, a male and female Saiga Antelope, from Siberia, and an adult male Bird of Paradise, from the Aru Islands, New Guinea.

CENTRAL REFERENCE LIBRARY.

During the past year 195,433 volumes have been issued, being an increase over the previous year of 29,107, and a daily average of 686 volumes.

It is gratifying to add that, with the exception of two small volumes of trifling value, no loss has been sustained, and no other injury observed. The recent introduction of several works on Sacred Music and of the best Operas has been highly appreciated, and many high class works on Architecture and Ornamental Art have been carefully studied, while treatises on Chemistry, Bookkeeping, Ship Building, and other branches of practical Science, have been constantly in requisition.

The following is a classified list of the Books read during the last twelve months:—

Classification.		Daily average, about
Theology, Morality, and Metaphysics	6159	22
Natural Philosophy, Astronomy, Chemistry, &c.	6891	24
Natural History, Botany, Mineralogy, &c.	2224	8
Science and the Arts, Architecture, Painting, Music, &c.	8169	29
History and Biography	13301	47
Topography and Antiquities	2099	7
Geography, Voyages, and Travels	8900	31
Miscellaneous Literature	53411	187
Jurisprudence, Law, and Politics	1091	4
Commerce, Political Economy, and Social Statistics....	802	3
Education, Logic, Language, &c.	3472	12
Poetry and Dramatic Literature	7190	25
Novels and Works of Imagination	77403	272
Classical Literature	597	2
Heraldry, Encyclopædias, and Works of Reference	3744	13

Total..... 195453

During the last year 2,720 volumes of books have been added to the Library; 2,281 of these by purchase, 91 from the office of Patents, 97 by Donation, and 251 (Parliamentary Papers, &c.,) from the Town Hall and Baths, making a total of 26,708 volumes now in the Library, under the following classification:—

	No. of Vols. Aug. 31, 1857.	Additions during the last 12 months.	No. of Vols. Aug. 31, 1858.
Theology, Morality, and Metaphysics	1538	161	1699
Natural Philosophy, Astronomy, Chemistry, &c.	721	65	786
Natural History, Botany, Geology, &c.	1105	172	1277
Science and the Arts, Architecture, Paint- ing, &c.	1585	359	1944
History and Biography	4001	315	4316
Topography and Antiquities	1043	112	1155
Geography, Voyages, and Travels.	1858	97	1955
Miscellaneous Literature.	4556	279	4835
Jurisprudence, Law, and Politics	2234	525	2759
Commerce, Political Economy, and Social Statistics.	205	24	229
Education, Logic, and Language	236	36	272
Poetry, and Dramatic Literature.	1145	106	1251
Novels, and Works of Imagination.	2972	371	3343
Classical Literature	87	13	100
Heraldry, Encyclopædias, and Works of Reference	702	85	787
Total.	23988	2720	26708

Two large Paintings, (fine copies by the late Mr. Henderson, of Edge Hill,) of the portraits of George III., by Sir Thomas Lawrence; and the Duke of York, by Phillips; in the Town Hall, have been presented to the Library, by Mr. T. C. Owen, Architect; and a portrait of John Bridge Aspinall, Mayor of Liverpool in 1803, by R. A. Aspinall, Esq.

THE LENDING LIBRARIES.

A simple statement of facts is all that is necessary to exhibit the progressive usefulness of this branch of the Institution.

The issues for the year ending 31st August have been 391,413 volumes, making a gross total of 1,063,960 books lent during the four years and ten months which the Libraries have been in operation.

Facts are continually occurring giving evidence of the beneficial influence of these Libraries. This is more especially the case amongst the younger readers, many of whom have been compelled to leave school at so early an age that their education is of the most elementary character.

Out of 1,600 young persons at the present time using the Libraries between the ages of 14 and 16, only 354 are at school, or under educational training; numbers of them are taking advantage of the opportunities for mental improvement placed now within their reach. Instances have occurred where the Library has been the means of forwarding several of these young persons in places of trust and responsibility, while others, again, have been fortunate in competing for Government appointments, under the new competitive examination test; and instances are known where the Books lent have been of most material service to working men, enabling them to prosecute researches in Chemistry, and other sciences, with the best practical results. And it is most gratifying to be able to state, that the mechanic and the artisan, for whose especial benefit these Lending Libraries have been established, are largely taking advantage of them to improve and perfect their knowledge of their various trades and callings.

The following statistical return may be found interesting, showing as it does the popular taste, and on comparing the issues for the past five years, the gradual development of mind, and the growing desire for a healthy and instructive Class of Literature, may be clearly traced.

TABULAR STATEMENT
SHOWING THE NUMBER OF VOLUMES IN EACH CLASS OF LITERATURE IN THE LIBRARIES, WITH THE
ISSUES IN EACH YEAR SINCE THE COMMENCEMENT.

CLASSIFICATION.	1854.		1855.		1856.		1857.		1858.		Total No. of Vols. Issued in the Five Years.
	No. of Vols. in Department.	No. of Vols. Issued.	No. of Vols. in Department.	No. of Vols. Issued.	No. of Vols. in Department.	No. of Vols. Issued.	No. of Vols. in Department.	No. of Vols. Issued.	No. of Vols. in Department.	No. of Vols. Issued.	
Theology, Morality and Metaphysics.	124	856	389	2,410	543	6,953	750	8,723	662	10,376	29,920
Natural Philosophy and Mathematics.	120	777	203	1,446	280	3,374	389	4,496	485	5,100	15,183
Natural History.	164	590	210	1,459	315	2,967	358	3,466	462	3,838	12,290
Science and the Arts.	128	634	254	1,546	385	4,255	367	5,292	506	6,248	17,975
History and Biography.	950	5,741	1,645	13,155	2,354	25,646	2,896	29,635	3,522	33,904	108,079
Topography and Antiquities.	36	264	69	531	108	1,391	119	1,669	141	1,787	5,642
Geography, Voyages and Travels.	425	3,588	791	6,908	1,141	14,247	1,420	17,257	1,669	18,525	59,320
Miscellaneous Literature.	629	3,364	1,400	8,881	2,012	21,963	2,654	25,952	3,253	36,767	96,947
Jurisprudence, Law and Politics.	28	107	76	317	100	788	121	784	149	698	2,642
Commerce and Political Economy.	91	104	47	285	73	602	86	682	117	733	2,406
Education, Rhetoric, Logic, and Language.	20	102	116	649	183	1,984	234	2,415	283	3,332	8,422
Poetry and the Drama.	210	886	274	1,897	390	3,599	512	4,520	588	5,513	16,415
Novels and Romances.	1,548	19,803	2,548	59,285	5,386	141,223	7,110	202,864	8,542	263,772	686,982
Classical Literature.	22	185	32	279	34	426	56	475	41	331	1,696
Embossed Reading for the Blind.									58	441	441
Total No. of Vols. in the Libraries, and Yearly Issues.	4,435	35,978	8,054	99,021	13,254	229,348	17,002	308,200	20,628	391,419	1,063,960

The Libraries at present contain 20,628 volumes:—

In the North Library 9,650

“ South Library 10,978

The number of Readers is at present 7,775, being an increase of 1,048 on the previous year. The number of Cards conferring the privileges of the Library, issued since the commencement, is 16,992.

The occupations of the present Borrowers may as nearly as possible be classified as under:—

	North.	South.	Total.
Merchants' and Shopkeepers' Apprentices, Office Lads, and School Boys	732	1100	1832
Mechanics, Labourers, Warehousemen, and Police Officers	1461	1365	2826
Clerks, Shopmen, and others employed in Shops.	515	875	1390
Teachers, Pupil Assistants, and Scripture Readers.	99	123	222
Commission Agents, Shopkeepers, and Retail Traders	74	112	186
Students, and those engaged in Professions	20	40	60
Business not ascertained, (principally females) ..	396	843	1239
	3297	4458	7755

Males, 6,383; Females, 1,372. Of these, 3,395 are under 21 years of age, and the remainder are above that age.

There are now 34 Blind Persons using the South Library, to whom have been lent 441 volumes in embossed type; and although these books are somewhat expensive, and easily soiled, such is the care taken of them, that no case of injury has yet been discovered. The simplicity of "Moon's System," on which the books are embossed, is such as to enable a person who has once had the blessing of sight, and able to read, to teach themselves. A man, who had lost the use of his vision some time since, learned in a few hours, and he has expressed himself deeply grateful for the privilege of borrowing these books. He stated his feelings to be of the most painful character when first deprived of sight, being obliged to sit day after day without anything to occupy his attention or thoughts, and feeling, as he graphically expressed it, "as if he were in solitary confinement." Since he has learned to read and obtain these books, a new world seems to have opened up to him, and he no longer feels the time hang heavily on his hands. This may be said to be the testimony of the whole of the blind persons now using the Library.

A careful examination of the condition of the Books was made during the year, and 173 volumes were found so far worn through excessive circulation, as to be unfit for further use. These were presented by the Committee to the Royal Infirmary and Southern Toxteth Hospital, for the use of the inmates.*

During the year 64 Books have been lost or injured while in the hands of borrowers, and replaced by them or their sureties. In nine cases the guarantees have had to make good the defalcation of the

* "About 750 Volumes have been worn out during the 5 years, by constant circulation."—*Manchester Free Library Report*, 1858.

parties for whom they had become responsible; 4 books of trifling value have been permanently lost to the Library, making 10 since the commencement, which might be replaced for about 30s.,—a small loss, when it is borne in mind that upwards of a million volumes have been lent.

A re-arrangement of the Books of the South District was found necessary, and a new Catalogue has been published. Of this edition 2,700 copies have been sold; 900 additional copies of the Catalogue of the North District have also been disposed of.

The time of attendance has been increased two hours daily; and the Libraries are now open for the issue and return of books nine hours per day.

The amount received in fines, for detention of books beyond the time allowed for reading, is £102 13s. 3d.; for Catalogues sold, £90; and for Tickets and their renewals, £31 9s. 1d. There have been added by purchase, during the year, 3,583 volumes; 43 volumes were presented by various donors; and there remain in stock, still unappropriated, 835 volumes; 4,460 volumes have been bound, re-sewn, and otherwise repaired.

During the 310 days the Libraries have been open for business, it is computed that 303,169 persons have passed in and out for books, being on an average 980 per diem.

The average daily issue for the year is 1,262 volumes.

1857.		£	s.	d.
Sept. 1st.	To Cash in the hands of the Librarian	24	0	0
" "	" in the hands of the Curator	4	4	3
" "	Donation of Postage Stamps	0	4	11
" "	Received for Packing Boxes and Books	1	17	0
" "	Carriage of Parcel returned by Railway Company ..	0	2	0
" "	Received for old Slates from Roof	0	3	6
" "	Taxes repaid by Landlord	1	13	4
" "	Received for Fines for Detention of Books, &c.:—			
	North Lending Library.....	£32	0	9
	South Ditto	70	12	6
			102	13 3
" "	Received for 3,600 Catalogues sold, at 6d. each....	90	0	0
" "	" for Tickets and their Renewals	31	9	3
" "	Books paid for	0	10	0
" "	Rent of Stable, 2 months	1	6	0
" "	Received Balance of Rate for 1857	5488	3	9
1858.				
Aug. 31st.	" " " on Account of Rate for 1858	4655	10	6
		Amount carried forward.....		
		£10,401	17	9

1857.	£ s. d.
Sept. 1st. By Balance due Messrs. Heywood and Co.....	4179 12 5

BOTANIC GARDENS.

By H. Shepherd, late Curator, Salary in full	£52 10 0
„ J. W. Birschel, Do., Do.,	45 15 4
„ Gardeners' Wages, 12 months	527 18 0
„ Cleaning Library, Candles, Brushes, Brooms, Postages, Carriage, &c., &c.	16 10 6
„ Books, £5 6s. 6d.; Stationery, £0 18s. 0d.....	6 4 6
„ Coal and Slack	9 17 10
„ Gas Fittings, &c.	17 4 9
„ Taxes, £4 4s. 6d.; Insurance, £6	10 4 6
„ Ironmongery and Iron Work	16 14 4
„ Water Account	21 0 0
„ Painting, Plumbing, and Glazing	88 2 2
„ Whitewashing	19 9 2
„ Joiners' Work	93 19 5
„ Brickwork	2 16 4
„ Repairing Clock, £1; Thermometers, £4 16s.	5 16 0
„ Gravel and Soil	9 19 10
„ Cartage	10 7 0
„ Travelling Expenses to Curator	5 0 0
„ Garden Pots	21 7 6
„ Garden Implements	17 14 11
„ Seeds	20 11 2
„ Advertisements	3 4 8
„ Redemption Fund, $\frac{1}{10}$ of £3,800 .. £126 13 4	
„ Interest	136 16 0
	263 9 4
	1285 17 9

Amount carried forward..... £5465 10 2

	£	s.	d.
To Amount brought forward	10401	17	9



Amount carried forward..... £10401 17 9

	£	s.	d.
By Amount brought forward.....	5465	10	2

DERBY MUSEUM.

SALARIES, WAGES, &c. :—

By T. J. Moore, Curator, Salary 12 months	£150	0	0
„ Richmond Abbott, Assistant, do.	66	8	8
„ Assistants' and Charwomen's Wages	265	3	0
„ Uniform Clothing for Assistants	20	13	6

STOCK AND FITTINGS:—

By Joiner's Work, Cases, Stands, &c., and Tools	33	15	3
„ Timber for New Room, Cases, &c.....	20	18	5
„ Ironmongery Work, and Repairs	19	1	8
„ Stuffing and setting up Specimens, Skeletons, &c....	39	1	5
„ Specimens purchased, Aquariums, &c.	268	14	7
„ Casts of Antique Statues, and expenses of Removal and Repairs	115	14	0
„ Glass Bottles, Shades, Cases, &c.	31	18	7

CURRENT EXPENSES:—

By New Skylight, Mason and Joiner's Work, Plumbing, Glazing, &c.	41	10	6
„ Gas Fittings, £3 8s. 6d.; Coals, £18 13s. 4d.	22	1	10
„ Insurance, £36 13s. 4d.; Water, £2 4s. 5d.....	38	17	9
„ Stationery and Printing, £11 19s. 10d.; Drawing Ma- terials, £1 4s.	13	3	10
„ Cleaning Models, Sweeping Chimneys, &c.	8	7	10
„ Carriage of Specimens, &c.	13	1	8
„ Ladder, 14s.; Mat, 19s. 10d.	1	13	10
„ Brushes, Flannel, &c., £4 1s. 4d.; Spirits of Wine, &c., £3 4s.	7	5	4
„ Stamps and Telegrams	2	4	4
„ Camphor, Oil, &c.....	4	18	3
„ Books, £1 8s. 6d.; Painting and Glazing, £5 2s. 11d..	6	11	5
„ Travelling Expenses to London, York, Edinburgh, &c.	30	13	6
„ Cotton Wool, Soap, Sash Cord, Jars, Carting Timber, Catalogues, and other Sundries	7	12	9
„ Cash in the hands of the Curator	4	4	3

1233 16 2

Amount carried forward..... £6690 6 4

	£	s.	d.
To Amount brought forward	10401	17	9

Amount carried forward	£10401	17	9
------------------------------	--------	----	---

	£ s. d.
By Amount brought forward	6699 6 4

REFERENCE LIBRARY.

SALARIES, WAGES, &c. :—

By J. Stuart Dalton, Chief Librarian, Salary 12 months ..	£180 0 0
„ George Hudson, Sub-Librarian	80 0 0
„ Wages to Assistant, Porter, Two Boys, and Cleaning the Rooms	179 8 0
„ Porters' Uniform Clothing	5 5 9

CURRENT EXPENSES :—

By Gas, £40 11s. 11d.; Fitting-up Sun Burners, &c., £34 ls.	74 12 11
„ Rent, Taxes, and Water	51 3 0
„ Insurance, £18 6s. 8d.; Coals, £9 4s. 6d.	27 11 2
„ Re-covering Forms in Reading Room	15 19 9
„ Repairs, Grate, Glazing, New Springs to Door, &c. . . .	2 18 1
„ Stationery, £5 15s. 6d.; Brushes, &c., £1 8s. 3d.	7 3 9
„ Printing 230,400 Slips, £26 10s.; Reports, &c., £10 10s.	37 0 0
„ Re-wiring Blinds, £2 0s. 4d.; 12 Chairs, £2	4 0 4
„ Carriage of Books, Patent Reports, and Books returned sent on Inspection	8 14 11
„ Packing Boxes for, and forwarding Patents	2 19 6
„ Postages of Reports, Letters, &c.	1 5 4
„ Post Office Orders and Receipt Stamps	1 6 5
„ Oil for doors, 2s. 7d.; Twine and Laces, Saw-dust, Baize, Nails, Gum, &c.	1 7 5
„ Candles, Sealing Wax, Soap, Ink, Lock, 4s. 2d.; Hinges, Pens, Pad, &c.	1 4 10
„ Porter's extra attendance, 10s.; Repairing Grid, &c. . .	1 1 6
„ Candlestick, Water Glass, 2 Frames, 8s.; Brushes, Sweeping Chimneys, 16s. 6d.	1 10 4
„ Cartage, &c., of 2 Pictures, Books from Town Hall, &c.	0 9 0
„ Timber for Shelves	2 1 8
„ 12 months' Interest on £5,000	237 10 0
„ 6 ditto ditto on £315	6 2 4
„ Paid on Account of the Expenses connected with lay- ing first Stone of new Building	29 0 0
„ Advertisements	4 11 6
„ 2,281 Volumes of Books purchased	1193 8 5
„ Binding, Lettering, and Repairing	102 17 5
	2260 13 4

Amount carried forward..... £8959 19 8

	£	s.	d.
To Amount brought forward	10401	17	9
„ Balance due Messrs. Heywood & Co., September 1, 1858	74	1	7

£10475 10 4

	£ s. d.
By Amount brought forward	8959 19 8

LENDING LIBRARIES.

By W. R. Roulston, Superin. Librarian, Salary 12 months..	£120 0 0
„ Peter Cowell, Assistant, ditto.....	54 6 0
„ James Rigby, Librarian, North Lending Library, ditto.	71 5 0
„ Boys' Wages, £76; Extra Assistance, Writing, &c., £5 15s.	81 15 0
„ Cleaning Libraries	15 12 0
„ Rent and Taxes, £90 5s. 5d.; Water, £2 15s. 2d.	93 0 7
„ Printing, £48 6s. 6d.; Gas and Fittings, £14 10s. 10d.	62 17 4
„ Joiner's Work, £32 1s. 2d.; Painting, £3 7s. 8d.	35 8 10
„ Stationery, £5 16s. 10d.; Coals, £15 12s. 10d.....	21 9 8
„ Brushes, £1 4s. 6d.; Ink, Gum, Disinfecting Fluid, &c., 9s. 3d.....	1 13 9
„ Repairs, Pump, Locks, &c., £1 9s. 1d.; Glazing, 8s. 8d.	1 17 9
„ Carriage of Books, 19s. 8d.; Mat, 17s. 6d.	1 17 2
„ Paid Mr. Rogers for leaving the house £15, less Rent, &c., £6 11s.	8 9 0
„ Saw-dust, Floor-cloths, Dusters, Black Lead, &c.	1 6 10
„ Sweeping Chimneys, 7s. 6d.; Putting in Coal, 10s. 6d.	0 18 0
„ Postages, £2 19s. 9d.; Car Hire, £1 8s. 6d.....	4 8 3
„ Expenses during the Re-arrangement of Books..	2 1 0
„ Books purchased	522 10 6
„ Binding, Lettering, and Repairing	261 3 3
„ Printing 6,000 Catalogues, and making up	129 7 6
	1491 7 5
„ Cash in the hands of the Librarian.....	24 12 3
	£10475 19 4

Examined with Books and Vouchers, and found correct,

JOHN H. BALLY, CORPORATION AUDITOR.

CAPITAL ACCOUNT.

Dr. NEW FREE PUBLIC LIBRARY AND MUSEUM.

CONTRA.

Cr.

	£	s.	d.
Aug. 31, 1858.			
To Cash paid for Land and Premises in Shaw's Brow	£21623	8	1
" Less, repaid for Street Improvement	4800	0	0
" Law and other expenses	16923	8	1
" Bank Commission	203	0	8
" Lithographing Plans of the ground for the site of the new Building	38	12	3
" Premiums awarded for the best designs	12	16	3
" Paid for two Houses in Parliament Street, for the South Lending Library	262	10	0
	1125	0	0
	<u>£18465</u>	<u>7</u>	<u>3</u>

	£	s.	d.
Aug. 31, 1858.			
By Cash voted by the Council out of the Corporate Fund	10000	0	0
" Cash borrowed on Bond, under the provisions of the Library and Museum Act	5000	0	0
" Bank Interest received	997	19	6
" Balance per Contra	2467	7	9
	<u>£18465</u>	<u>7</u>	<u>3</u>

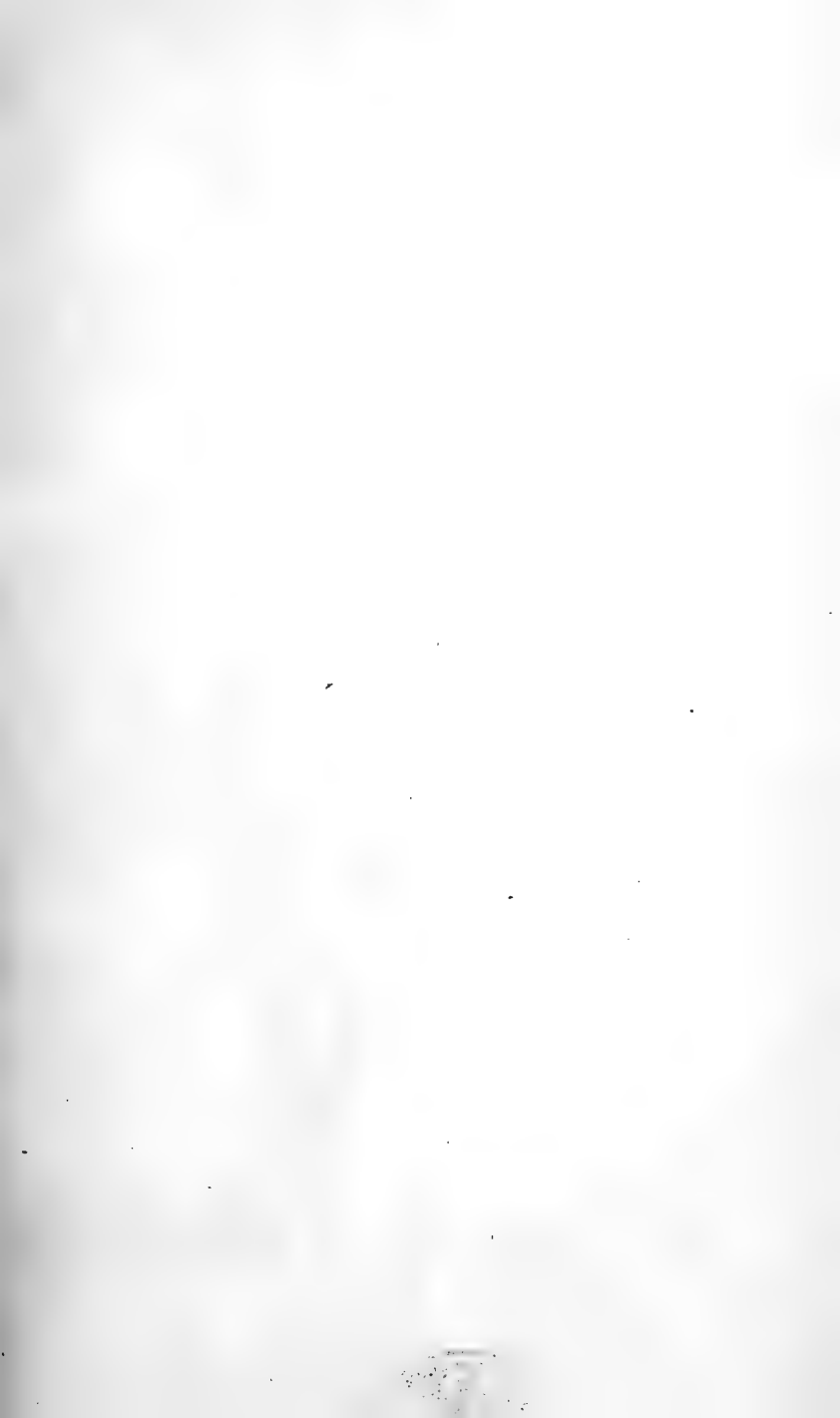
Sept. 1, 1858.			
To Balance	£2467	7	9
Viz.:— Amount due Heywoods & Co.	£1417	7	9
Amount due on Land and Premises Account, Cheque not yet presented	1050	0	0

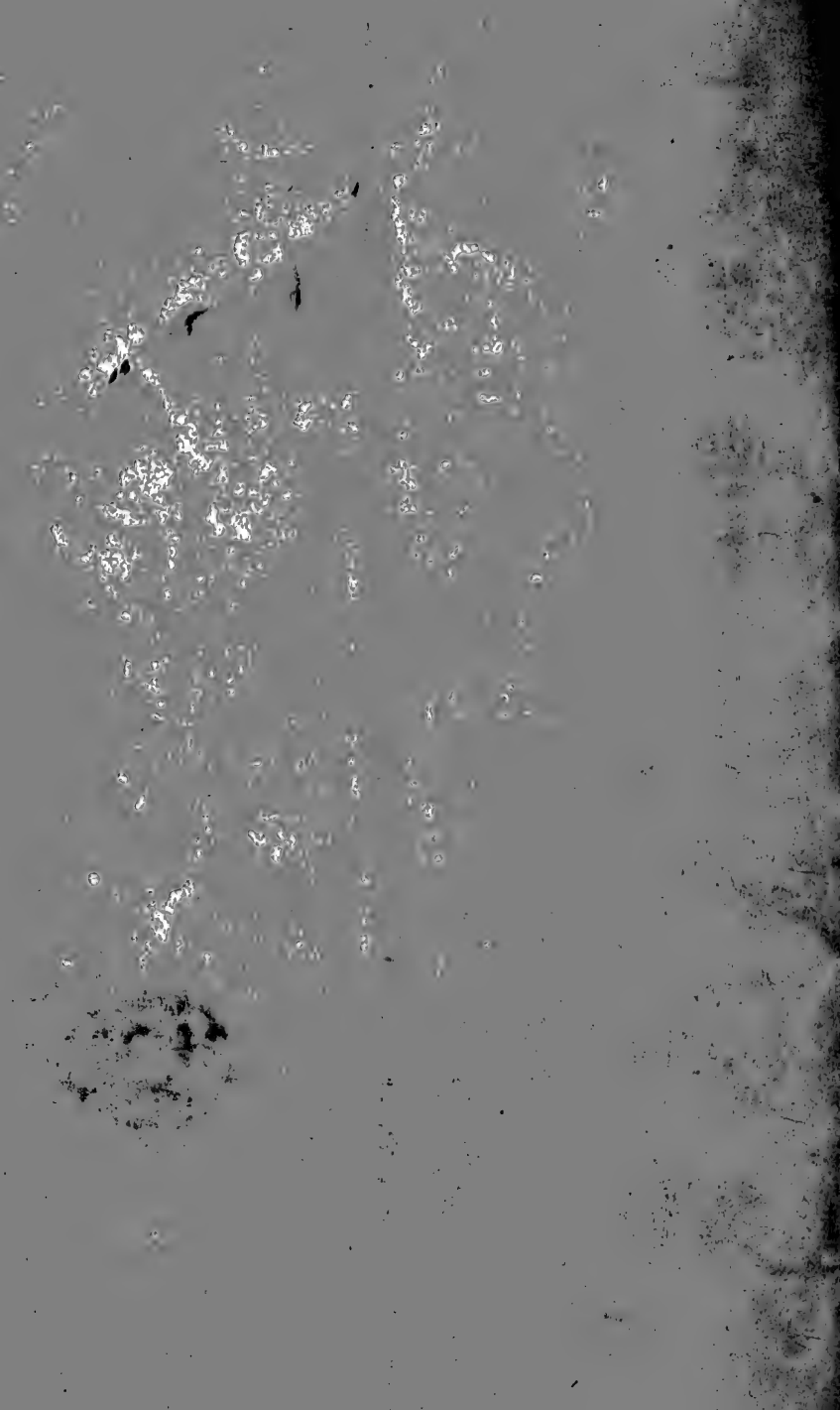
Examined with Accounts and Vouchers, and found correct,

JOHN H. BALLY, CORPORATION AUDITOR.



PRINTED 15 JUL 1898





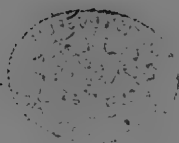
SEVENTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
AND
The Derby Museum,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

OCTOBER, 1859.



LIVERPOOL:
PRINTED BY D. MARPLES, LORD STREET.



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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

RESEARCH REPORT

NO. 100

BY

ROBERT H. DICK

1950

OFFICERS AND COMMITTEE

FOR THE YEAR 1859.

Committee.

JAMES A. PICTON, Esq., F. S. A., CHAIRMAN.

RICHARD M. BECKWITH, Esq., DEPUTY CHAIRMAN.

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THOMAS AVISON, Esq.

WILLIAM BENNETT, Esq.

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DAVID RAE, Esq.

JAMES STEAINS, Esq.

Chief Librarian.

JOHN STUART DALTON,

DUKE STREET.

Sub-Librarian.

GEORGE HUDSON.

Superintendent of the Lending Libraries.

WILLIAM R. ROULSTON.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

THE Committee, in presenting to the Council their customary Annual Report, have still to record the progressive development of the capabilities and usefulness of every part of the Institution under their charge.

The details of each department will be found under their respective heads. It may here be briefly stated that the issue of books during the previous year was :—

	Volumes.
From the Reference Library	195453
From the Leading Libraries	391413
Total.....	<u>586866</u>

During the year ending 31st August last, the issues have been :—

	Volumes.
From the Reference Library	202534
From the Lending Libraries	436509
Total.....	<u>639043</u>

Being an actual circulation of 12,290 volumes per week, and an increase in the issues of 52,177 volumes during the year, or upwards of 1000 per week. The amount of advantage to the community, in affording innocent amusement, and providing means for self-instruction and mental improvement, to this extent, it would be difficult to over-estimate.

During the past year, additional accommodation has been provided at the North end, by the erection of a new building for the Library in connection with the premises previously occupied, which have been secured for a term of years at a reasonable rent.

The new Library and Museum has received the roof, and its completion may be looked for at no distant period. The old houses which clustered round and prevented its being seen have nearly all been cleared away. The improvements now in progress will give to the Library one of the most central and prominent positions in the town, which will materially aid in carrying out the great objects for which it has been founded.

As the Botanic Garden is supported out of the same fund from which the Library and Museum are maintained, the Council, at the commencement of the present municipal year, determined to amalgamate the two Committees. The present Report, therefore, includes a notice of the condition and progress of the Gardens, Park, and Public Walks.

CENTRAL REFERENCE LIBRARY.

Seven years have nearly passed away since the opening of this Library, each successive year exhibiting an increasing interest, and a higher appreciation of its treasures. It was supposed that no addition could be made, in the present premises, to the 195,453 readers of last year, from the want of space for their accommodation; but this year's numbers amount to 202,534, being an increase of 7,081. The Reading Room continues to be crowded, from ten o'clock in the morning till ten at night; and the fifty-five Magazines, Reviews, and Scientific Journals placed on the tables are constantly in requisition.

The following is a classified list of the Books read during the last twelve months, the average number being 710 volumes per day:—

Classification.	Volumes.	Daily Average, about
Theology, Morals, and Metaphysics	6123	21
Natural Philosophy, Astronomy, Chemistry, &c.....	6780	24
Natural History, Botany, Mineralogy, &c.	2760	10
Science and the Arts, Architecture, Painting, Music, &c.	9547	34
History and Biography	14442	51
Topography and Antiquities	2576	9
Geography, Voyages, and Travels	8855	31
Miscellaneous Literature.....	56952	199
Jurisprudence, Law, and Politics	1024	4
Commerce, Political Economy, and Social Statistics	750	3
Education, Logic, Language, &c.	4087	14
Poetry and Dramatic Literature.....	8298	29
Works of Imagination.....	75245	263
Classical Literature	783	3
Heraldry, Encyclopædias, and Works of Reference	4212	15
Total	202534	

It will be observed from the above table that, whilst the issues on the whole have considerably increased, the proportion of works of imagination has considerably diminished. Although reading for amusement is one of the most innocent of recreations, it is still satisfactory to find that free admission to works of this class has not the effect of destroying the appetite for the more solid and instructive classes of literature.

During the last year, 2,636 volumes have been added to the Library; 2,391 by purchase, 82 by donation, 91 from the Office of Patents, and 72 from the Town Hall and Baths (principally Parliamentary Papers), making a total of 29,344 volumes now in the Library, under the following classification:—

	No. of Vols. Aug. 31, 1858.	Additions during the last 12 months.	No. of Vols. Aug. 31, 1859.
Theology, Morals, &c.	1699	304	2003
Natural Philosophy, &c.	786	45	831
Natural History	1277	163	1440
Science and the Arts	1944	303	2247
History and Biography	4316	430	4746
Topography and Antiquities	1155	151	1306
Geography, Voyages, and Travels	1955	162	2117
Miscellaneous Literature	4835	433	5268
Jurisprudence	2759	94	2853
Commerce, Political Economy, &c.	229	18	247
Education, Logic, &c.	272	29	301
Poetry and Dramatic Literature	1251	151	1402
Works of Imagination	3343	260	3603
Classical Literature	100	37	137
Heraldry, Encyclopædias, &c.	787	56	843
Total	26708	2636	29344

LENDING LIBRARIES.

THE Lending Libraries still continue to grow in popularity and usefulness, as will be seen by the accompanying tabular statements.

The issues exceed those of the previous year by 45,096 volumes, and the number of Borrowers shows an increase over last year of 522. Up to the present time, one million and a half of books have been circulated.

	Volumes.	Readers.
At the North District there have been lent	197547	3881
At the South District there have been lent	238962	4396
Total lent during the year	436509	8277

The class of persons using the Libraries continues much the same as in the analysis made of their occupations in last year's Report; there is, however, a noticeable increase in the number of female readers.

It is found that Borrowers who systematically read works of a light and amusing character change their books much more frequently than those who read a more solid class of literature; many of the latter are in the constant habit of having their books renewed again and again, in order thoroughly to master their contents; and this is especially the case with working men when engaged in perusing works of an educational or scientific character.

Out of the 8,277 persons at present using the Libraries, it is believed about 3,000 really read with a desire to furnish their minds with useful knowledge, while the remaining number appear to read simply for amusement and recreation. Large as this proportion appears, it will bear comparison with any library in the kingdom, where a mixed description of literature is freely circulated.

The fine summer weather, and long light evenings, materially affect the amount of circulation; for instance, in the month of March, no less than 42,658 volumes were issued, while in the month of June, the numbers diminished to 33,434 volumes. The bulk of the frequenters of the Library are closely confined at work during the day, and at this season naturally seek outdoor recreation in preference

to reading. In the winter months the demand for books is enormous, as many as 10,000 volumes having been lent in one week.

More books are lent on Monday than on any other day in the week, not unfrequently as many as 4,000 volumes being exchanged on this day.

The number of volumes added to the Libraries this year is 3,046.

The number of volumes in both Libraries stands thus :—

North District.....	11194
South District.....	12480
Total.....	<u>23674</u>

Further purchases have been made during the year of embossed books for the blind, on Moon's system. 607 volumes of this class of books have been lent to the blind during the year, and the boon seems still greatly prized by those for whose benefit they have been procured.

The Committee, being desirous to encourage the growing taste for music, ordered, a few months ago, a number of Standard Musical Works, comprising the most popular Oratorios, and a complete set (as far as published) of the "Standard Lyric Drama," being a series of the best operas, with English and Foreign words, together with some other books bearing on the general science. Their introduction has so far proved most successful, being greatly appreciated by the musical portion of the readers.

The pleasure derived by the sick, and those out of work, in being able to borrow books to read at their own homes, is constantly coming under the notice of the Superintendent; two instances may be given. An individual lingering in a hopeless consumption, whose ticket of membership required renewing, writes to be excused from personal attendance (as is customary, to sign his name in the Signature Book). "I hope I shall not be refused by your Committee, as this, of all others, is the time I most need, and most enjoy, such a *luxury*. My own slender stock of books is long ago exhausted, and, as you may imagine, such a boon will be more highly prized than ever." Another, who is at present out of employment, thus writes:—"Were I to be deprived of the use of books from your excellent Libraries, my life would become only a burthen and a blank."

There have been lost or injured, while in the hands of readers, during the year, 65 volumes; of these, 48 have been replaced by the Borrowers themselves, 13 by the Guarantees, and 4, of trifling value, have been lost to the Libraries.

THE DERBY MUSEUM.

The total number of visitors amounts to 120,217, giving a daily average of 564.

During the past year, a collection of Corals has been formed; and though the space available for their exhibition has necessarily been small, means have been found to make a display of very considerable interest, caused alike by the beauty of the objects themselves, and a consideration of the important part they perform in the operations of nature. The exertions of the Rev. H. H. Higgins in procuring specimens, and the liberality with which he has bestowed considerable time in naming them, deserve special thanks.

One of the most important additions made since the last Report is a specimen of Pallas's Short-toed Sand Grouse, *Syrrhaptes paradoxus*. This species is a native of Tartary, and no instance is on record of its having previously occurred in Europe. The specimen in question is a remarkably fine one, and was shot at Portreiddyn farm, on the estate of T. Madoc, Esq., near Tremadoc, Carnarvonshire. It was most liberally presented by Mr. Thomas Chaffers, of Great Howard-street, and has since been stuffed and exhibited before the British Association at Aberdeen.

The principal Donations during the year have been the following:—

The Skull of an Indian Elephant, the Skull of a Hippopotamus, and a skeleton of the Fossil Elk of Ireland; presented by the Right Honourable the Earl of Derby.

A Squirrel from Mexico, a remarkable Deer Horn, &c.; presented by J. O. W. Fabert, Esq.

A Climbing Anteater; presented by A. Cumming, jun., Esq.

A Brochet Deer, an Axis Deer, and a Coypu; presented by Mr. Hulse.

A Lion Cub; presented by Mr Atkins.

A Bat, a Noddy Tern, and two Storm Petrels; presented by Captain Lewis, ship "Elizabeth Hamilton."

Two hundred and sixty-five Birds, from Malayasia; presented by G. R. Woodward, Esq.

A Skin and Skeleton of the Wandering Albatross; presented by Captain Owen Lloyd, ship "Rapido," per W. P. Jeffreys, Esq.

A Whistling Duck, from Mexico; presented by J. Hindle, Esq.

Two Love Birds, from Zanzibar; presented by J. O. W. Fabert, Esq.

A Ring Ouzel, and a Slow Worm; presented by Mr. T. W. Williams.

Three specimens of the Proteus, from Bavaria; presented by J. O. W. Fabert, Esq.

A Rattlesnake, from Maranham; presented by Thomas B. Gunston, Esq.

A Tapayaxin, or Swamp Lizard, from Texas; presented by Watson Peck, Esq.

Two Adders; presented by John Armstrong, Esq.

One Adder; presented by Roderick Anderson, Esq.

A Water Snake; presented by Mr. William Butcher.

Sixty-six species of rare British Shells; presented by William Webster, Esq.

Seven Shells from Altata, Gulf of California, and four from Zanzibar; presented by J. O. W. Fabert, Esq.

A remarkable specimen of *Pectunculus glycimeris*; presented by Professor Byerley.

Nine Cowries; presented by Mr. Newby.

A Cock's Comb Oyster; presented by R. M. Beckwith, Esq.

A Wasp's Nest; presented by Samuel Baker, Esq.

A large Spider (*Mygale*), from Old Calabar; presented by Messrs. Stewart & Douglas.

Thirteen bottles of specimens in Spirit, from Calcutta; presented by Mr. F. Moore.

Seven bottles of specimens in Spirit, from Panama; presented by P. R. M'Quie, Esq.

Eight specimens of Coral, and thirteen of *Corallina* and *Jania*; presented by the Rev. H. H. Higgins.

A Brain Coral, from Bermuda; presented by J. H. Cauty, Esq.

Three Corals, from Gambier Island; presented by J. O. W. Fabert, Esq.

A *Gorgonia*; presented by Mr. Hulse.

A specimen of *Retepora*; presented by Miss Ellen Yates.

Three Corals, and sundry other specimens; presented by Mr. J. Barnett.

A specimen of Shap Granite; presented by J. A. Picton, Esq.

Specimens of Hæmatite Iron; presented by Mr. G. H. Morton, and Mr. J. T. James.

A specimen of Cone-in-Cone Coal, from Glamorganshire; presented by T. C. Archer, Esq.

A Fossil Plant Stem (*Lepidodendron*); presented by T. Chaffers, Esq.

A Sitka Canoe and Paddles, from the North West Coast of America; presented by Captain Krell, Hamburg, brig "George Krell."

A Bow and eleven Spears; presented by R. M. Beckwith, Esq.

One hundred and fifty specimens of Aqua-marine Watch Jewels; presented by Mr. James Hornby.

Specimens for the Aquarium; presented by Miss Yellowly and C. Bretherton, Esq.

Minor Donations have been made by Messrs. Radley, John Crosby, Charles Green, Thomas Chaffers, James Worswick, B. Staley, and Captain Heron.

Twenty-four Quadrupeds, forty-seven Birds, a hundred and seventeen specimens of Reptiles and Fish, and one hundred and twenty-eight specimens of Coral have been added by purchase.

BOTANIC GARDENS.

CONSIDERABLE improvement has been effected by the removal of many large trees and shrubs from the overcrowded original plantations into the Wavertree Park, and by the careful thinning of other shrubberies, without injuring the collection.

The removal of these trees was effected by a transplanting machine constructed on the ground. Trees, from 10 to 25 feet high, and from 5 to 8 tons weight, have been removed by this simple contrivance.

The collection of herbaceous plants has been re-arranged and planted according to the system of De Candolle. Large numbers of plants have been liberally contributed by the Rev. H. H. Higgins, Rainhill; Mr. William Holcroft, Wigan; Mr. Fisher; by Messrs. Paul, of Cheshunt, Hertfordshire; Messrs. Osborne, Fulham; Messrs. E. G. Henderson, London; Mr. Moore, Curator of the Chelsea Botanic Gardens; Mr. Findlay, Curator of the Manchester Botanic Gardens, the Botanic Gardens at Antwerp, Zurich, Halle, Berlin, St. Petersburg, and others.

Strict attention has been paid to the correct naming of the plants. Each name is given in Latin, and in English when possible, and the country is always added. The colour of the label indicates the nature of the plant, whether poisonous, ornamental, medicinal, culinary, &c.

The collection of ferns has become valuable, numbering about 600 distinct species, and is now one of the best in the country.

For contributions of this class of plants, we are greatly indebted to J. Hadwen, Esq., Edge-lane; Thomas Wilcke, Esq., Newcastle-on-Tyne; Messrs. Parker & Williams, Holloway; and the gardens of His Grace the Duke of Devonshire at Chatsworth.

A number of plants possessing commercial as well as botanical interest have also been added.

For ornamental stove and green-house plants, we are greatly indebted to R. C. Gardner, Esq., J. Blackburn, Esq., Hale, and others.

In the Library department of the Botanic Gardens, an addition has been made by the purchase of several rare and valuable botanical works at the sale of the library of the Horticultural Society in London.

The number of visitors has been very great, particularly in the evening, and on Sundays. The band of the Orphan Boys' Asylum has performed gratuitously every Thursday evening during the summer, which has added much to the attraction of the Park and Gardens. The boys were provided with refreshments by the liberality of the Mayor.

1858.		£ s. d.		
Sept. 1st.	Cash in the hands of the Librarian	24	12	8
	„ in the hands of the Keeper of the Museum	4	4	3
	„ Returned; Balance of Advance for Purchases	7	6	3
	„ Allowance from Gas Company	0	11	0
	„ Received for Waste Paper	0	19	0
	„ „ from Burns' Centenary Committee for damage to Plants	2	0	0
	„ „ Deduction from Joiner's Account	3	14	8
	„ „ Deduction on Account for Plants	2	10	0
	„ „ From Fines for Detention of Books:—			
	North Lending Library	£37	18	6
	South Ditto	74	14	3
				112 12 9
	„ For Catalogues sold—			
	908 Copies, North Library, at 6d. each ..	22	14	0
	950 Copies, Ditto at 9d. each ..	35	12	6
	1400 Copies, South Library, at 6d. each ..	35	0	0
	1150 Copies Supplements, South Library, at 3d. each	14	7	6
				107 14 0
	„ For Tickets and their Renewals	34	6	8
	„ Book Sold	0	5	0
				34 11 8
	„ Received from the Rate for 1858	1917	17	0
	„ Received from the Rate for 1859	5560	15	11
				7478 13 5

Amount carried forward £7779 9 3

1858.	£ s. d.
Sept. 1st. By Balance due Heywoods & Co.	74 1 7

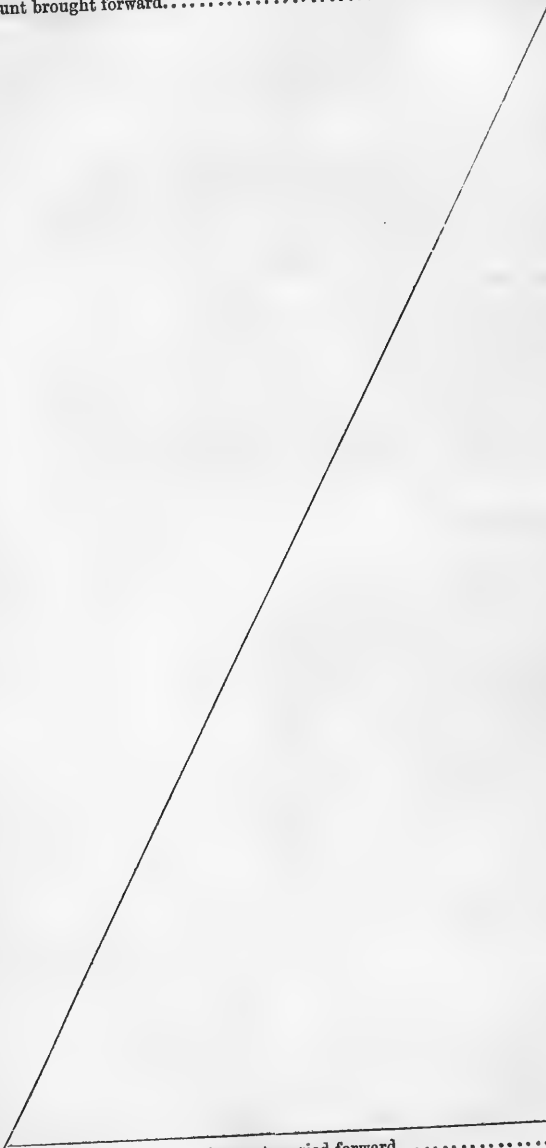
BOTANIC GARDENS.

By J. W. Birschel, Curator, 12 months Salary	£105 0 0
„ Gardeners' Wages	613 13 3
„ Gravel, Turf, Manure, and Cartage	89 3 0
„ Stone, £33; Timber, £20 10s. 3d.....	53 10 3
„ Plants, Bulbs, &c.....	49 17 6
„ Canvas, £24 5s. 10.; Bell, £7	31 5 10
„ Mowing Machine and Implements	11 4 6
„ Painting, Plumbing, Glazing, &c.....	35 2 5
„ Paints, Oil, &c.....	11 2 10
„ Slates for Hot-houses, £23 6s. 9d.; Slates for Labels, £8 17s.....	32 3 9
„ Ironmongery, &c., £13 14s. 8d.; Joiner's work, £82 17s. 2d.	96 11 10
„ Plastering, £9 10s.; Vases, £32 4s.....	41 14 0
„ Insurance, £4 2s. 6d.; Taxes, £8 19s.....	13 1 6
„ Gas and Coke, £14 12s. 4d.; Coals, £29 17s. 7d.	44 9 11
„ Coal and Slack, October, 1857, to March, 1858.	29 18 3
„ Mason's work, and Boiler	101 8 9
„ Car Hire, £4 1s.; Advertisements, 4s. 6d.; Stationery, 18s. 10d.....	5 4 4
„ Travelling Expenses, £5; Books, £75 19s. 6d.	80 19 6
„ Flower Pots, £13 13s.; Water, £10 10s.....	24 3 0
„ Dahlia Sticks, £4 17s. 9d.; Repairing Clock, &c. £1 7s.....	6 4 9
„ Redemption Fund, $\frac{1}{8}$ of £3800 for the Purchase of the Gardens, £126 13s. 4d.; Interest on Balance, £3293 6s. 8d., at 4 per Cent., £131 14s. 8d	258 8 0
„ Disbursements, viz., Carriage of Plants, Cases, &c.	13 9 5
„ Cleaning Library, £5 19s.; Kettle, 15s.; Pos- tage, Twine, 14s. 7½d.	7 8 7½
„ Repairs, 7s.; Sweeping Chimneys, 8s.; Birch, £1 13s. 6d	2 8 6
„ Providing, Coffee for Orphan Boys' Band, mats, sponges, brushes, soap, &c., &c.....	2 3 1
„ Balance of Cash in the hands of the Curator..	2 19 10½
	1762 16 8

Amount carried forward..... £1836 18 3

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

To Amount brought forward..... £ s. d.
7779 9 8



Amount carried forward £7779 9 8

	£	s.	d.
By Amount brought forward	1836	18	3

DERBY] MUSEUM.

SALARIES, WAGES, &c.:-

By T. J. Moore, Keeper, Salary 12 months	£150	0	0
„ Assistants, £81 1s. 9d; Artist, £5.....	86	1	9
„ Wages to Assistants and Charwomen	267	6	8
„ Uniform Clothing for Assistants	18	17	0

STOCK AND FITTINGS:-

By Stock Books, Stationery, &c.	18	15	9
„ Ironmongery and Ironwork	20	15	3
„ Joiner's Work, Cases, Stands, &c.....	55	18	10
„ Specimens purchased	88	11	6
„ „ Stuffing, setting up Skeletons, &c... ..	55	13	2
„ „ purchased and obtained for Aquariums	6	9	5
„ Glass Bottles, Tablets, Panes, &c.....	47	15	2
„ Coral Stands, Mats, &c.	8	5	10

CURRENT EXPENSES:-

By Gas and Coal, £19 14s. 10d.; Insurance, £29 16s. 9d. . .	49	11	7
„ Travelling Expenses	15	5	1
„ Advanced for Purchases, returned and debited	7	6	3
„ Timber, £19 19s. 9d.; Printing, £3 7s. 6d.	23	7	3
„ Cord, Flannel, Brushes, Twine, Cans, &c.	7	11	0
„ Sweeping Chimneys, Colouring Rooms, &c.....	5	12	0
„ Cleaning Models, Polishing Stands, &c.	14	11	5
„ Spirits of Wine, Camphor, Arsenical Soap, &c.	9	1	6
„ Dredge, £1 4s.; Instruments, Lens, &c., £2 8s.	3	12	0
„ Water, £2 4s. 11d.; Removing Friezes, 10s.	2	14	11
„ Carriage of Specimens, £5 13s. 7d.; Postage, £1 4s. 6d.	6	18	1
„ Cement, 9s. 6d.; Cord, 16s. 9d.; Carting Timber, 7s. 6d.	1	13	9
„ Pipe Clay, 6s. 6d.; Soap, 10s.; Telegrams, 11s.	1	7	6
„ Glass Labels and Jars	0	10	6
„ Sawing Timber, Lamps and Oil, Candles, Repairs, &c... .	3	15	9
„ Drawing Materials, £2 8d.; Tools, £1 3s. 9d.....	3	4	5

 980 13 4

 Amount carried forward..... £2817 11 7

RECEIPTS AND DISBURSEMENTS OF THE MUSEUM RATE

To Amount brought forward..... £ s. d.
7779 9 3



Amount carried forward £7779 9 3

	£	s.	d.
By Amount brought forward	2817	11	7

REFERENCE LIBRARY.

SALARIES, WAGES, &c.:—

By J. Stuart Dalton, Chief Librarian, Salary, 12 months ..	£180	0	0
„ George Hudson, Sub-Librarian, Salary, 12 months	80	0	0
„ Wages to Assistant, Porter, Two Boys, and Cleaning the Rooms	179	8	0
„ Uniform Clothing for Porter	4	12	0

CURRENT EXPENSES:—

By Rent, £50; Insurance, £29 14s.	79	14	0
„ Joiner's Work, Shelving, &c.	20	5	11
„ Gas, Stove Pipe, &c., £49 10s. 1d.; Coals, £9 11s.	59	1	1
„ Printing 100 Catalogues, £17 2s.; Printing Reports, Slips, &c., £36 5s. 6d.	53	7	6
„ Railway Fare to Architect, £5; Assistant writing Cata- logue, &c., £10.	15	0	0
„ Ventilators, £3 16s. 2d.; Painting Window Frames, &c., £1 15s.	5	11	2
„ Repairs, Masonry, Clock, Stamp, &c.	2	9	4
„ Brushes, £1 10s.; Mat, 12s. 6d.; Picture Frame, £1 10s.; Stereoscope, 6s. 6d.	3	19	0
„ Stationery, Stock Book, &c., £9 19 3d.; Water, £1 2s. 6d.	11	1	9
„ Interest on Money Borrowed	260	11	10
„ Postages, £1 7s. 1d.; Receipt Stamps, 7s. 9d.; Post- office Orders, 14s. 10d.	2	9	8
„ Carriage of Books, Patent Reports, and Works returned sent on inspection	9	13	7
„ Oil for Doors, 2s.; Twine and Laces, 3s. 6d.; Pins and Tapers, 1s.	0	6	6
„ Candles, 5s. 3d.; Gum, 2s. 6d.; Soap, 2s. 6d.; Saw- dust, 11s.	1	1	3
„ Sweeping Chimneys, 19s. 6d.; Ink, 6s.; Baize, 7s.; Locks, 2s. 3d.	1	14	9
„ Forwarding Patent Reports, £1 6s. 4d.; Pencils, 3s. 3d.	1	9	7
„ Gratuity to Bookseller, 10s.; Mail, 3s.; Case, 2s. 6d.	0	15	6
„ Assistant Stamping Books and Plates	2	3	4
„ Advertisement	0	4	6
	£975	0	3

BOOK ACCOUNT:—

By 2391 Volumes purchased	£1315	16	0
„ Binding, Lettering, and Repairing	80	19	0
	1396	15	0
		2371	15 3
Amount carried forward.....	£5189	6	10

	£	s.	d.
To Amount brought forward	7779	9	3



£7779 9 3

To Cash in the hands of the Chief Librarian, brought down..	£18 12 6½		
Add Sundry small items, to be accounted for, debited to the			
Chief Librarian.....	0 6 1		
,, Inhabited House duty charged, but payment deferred ..	1 2 6		
		20 1 1½	
,, Error in Petty Cash account of Keeper of Museum, debited to him..		0 0 1	
		£20 1 2½	

Examined with Books and Vouchers produced, and, with the above-mentioned exceptions, found correct.

P. S. RHIND, CORPORATE AUDITOR.

	£	s.	d.
By Amount brought forward	5189	6	10

LENDING LIBRARIES.

By W. R. Roulston, Superintendent Librarian, Salary for 12 months	£120	0	0
„ Peter Cowell, Assistant, ditto	56	16	0
„ James Rigby, Librarian, North District, ditto	75	0	0
„ Boys' Wages, £98 9s.; Extra Assistance, Writing, &c., £10 7s.	108	16	0
„ Cleaning Libraries, Floor-cloths, Saw-dust, &c.	31	10	7
„ Rents, £69 2s. 6d.; Repairs, Hardy street, £10 10s. ..	79	12	6
„ Joiner's, Mason's, Painter's, &c., Work, North Library..	432	8	1
„ ditto ditto South Library..	275	18	11
„ Printing Tickets, Guarantee Forms, Labels, &c.	64	8	6
„ ditto Catalogues	197	15	0
„ Stationery	8	0	2
„ Expenses of Removal to Parliament Street	15	2	6
„ Coal, £18 8s. 9d.; Gas and Fittings, £73 6s. 2d.	91	14	11
„ Taxes, £7 8s. 10d.; Insurance, £12 7s. 6d.	19	16	4
„ Painting Signs, &c., £17 2s. 2d.; Repairs, £1 8s. 5d. ..	18	10	7
„ Ironmongery, £3 19s.; Mats, £3 10s. 2d.	7	9	2
„ Press and Die, £2 15s.; Brushes, £1 18s. 10d.	4	13	10
„ Water, £3 6s. 2d.; Carriage of Books, £1 2s. 7d.	4	8	9
„ Car Hire and Railway Fare, £1 11s. 6d.; Sweep, 6s. ..	1	17	6
„ Desk, £1 13s. 4d.; Postages, £3 0s. 10d.	4	14	2
„ Ink, Gum, Candles, Nails, Twine, &c.	0	13	3½
„ Repairs Water-pipe, Locks and Glazing, Blinds for Windows, &c.	3	2	8
	1622	9	5½

BOOK ACCOUNT:—

By 3,046 volumes purchased	£562	12	4	
„ Binding, Lettering, and Repairing	300	6	4	
	862	18	8	
By Balance in the hands of Messrs. Heywoods & Co.		2485	8	1½
„ Cash in the hands of the Chief Librarian, September 1, 1859, carried down		86	1	9
		18	12	6½
		£7779	9	3

Rates of 1859 in Arrear, viz.:—

Everton	£559	2	6
Kirkdale	227	11	5
West Derby	450	7	2
	£1237	1	1

CAPITAL ACCOUNT.

Dr. NEW FREE PUBLIC LIBRARY AND MUSEUM.

CONTRA.

Cr.

	£	s.	d.
1858.			
Sept. 1. To Balance due Heywoods & Co.....	1417	7	9
Dec. 10. " Cash on account of Land and Premises	1050	0	0
" 16. " Interest and Law expenses.....	70	16	8
	<u>£2538</u>	<u>4</u>	<u>5</u>
1859.			
Sept. 1. Balance due Heywoods & Co.	£2038	4	5

	£	s.	d.
1858.			
Sept. 14. By Amount taken up on bond	500	0	0
" Balance as per contra	2038	4	5
	<u>£2538</u>	<u>4</u>	<u>5</u>



15 JUL 1898





EIGHTH

ANNUAL REPORT

OF THE COMMITTEE

OF THE

FREE PUBLIC LIBRARY,

MUSEUM,

AND

Gallery of Arts,

OF THE

BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

OCTOBER, 1860.



LIVERPOOL:

PRINTED BY D. MARPLES, LORD STREET.



OFFICERS AND COMMITTEE

FOR THE YEAR 1860.

Committee.

JAMES A. PICTON, F. S. A., CHAIRMAN.

RICHARD M. BECKWITH, DEPUTY CHAIRMAN.

WILLIAM BROWN,

THOMAS AVISON,
WILLIAM BENNETT,
CHARLES T. BOWRING,
C. J. CORBALLY,
WILLIAM EARLE,
EDWARD ESTILL,

RICHARD C. GARDNER,
REV. H. H. HIGGINS,
T. B. JOB,
JOSEPH KITCHEN,
CHARLES MOZLEY,
DAVID RAE,

JAMES STEAINS.

Chief Librarian,

JOHN STUART DALTON.

Sub-Librarian,

GEORGE HUDSON.

Superintendent of the Lending Libraries,

WILLIAM R. ROULSTON.

Curator of the Derby Museum,

THOMAS J. MOORE.



REPORT.

THE publication of the Annual Report has been this year somewhat retarded beyond the ordinary time of issue, from a desire to include in its notices a record of the opening of the New Building.

This event, the most important which has taken place in the history of the Institution, was celebrated on the 18th October, 1860, exactly eight years from the original opening of the Library in Duke Street. Every desire was evinced by the authorities, and by the inhabitants generally, to do honour to Mr. William Brown, the munificent donor of the building. The day was kept as a general holiday, and probably a larger concourse of people assembled than was ever before brought together in Liverpool. A procession of the Mayor and civic authorities, with the principal Bankers, Merchants, Clergy, and other inhabitants, preceded by the several Volunteer Corps, 2,700 strong, marched round the town from the Town Hall to the New Library. The ceremony of handing over the building by Mr. Brown to the Mayor, on behalf of the inhabitants, took place on a platform in front of the building, in the presence of an immense assemblage. The Lord Bishop of Chester, Lord Brougham, Sir Robert Peel, M. P.; Sir John Bowring; William Ewart, Esq., M. P.; T. B. Horsfall, Esq., M. P.; James Brown, Esq., of New York, and other distinguished persons, were present, and addressed the assembly. In the evening, a banquet was held in St. George's Hall, the Mayor, T. D. Anderson, Esq., in the chair. In the course of the proceedings, the statue of Mr. Brown, executed by P. MacDowell, Esq., R. A., for the Corporation of Liverpool, was inaugurated. A full length portrait of Mr. Brown, painted by Sir John Watson Gordon for the Corporation, was also placed in the new Library. The following evening, about 1,200 guests were entertained at a soirée, at the Town Hall, given by the Mayor, in honour of the occasion.

It was announced at the Banquet that a donation of £1,000 had been presented through Mr. Brown to the Library, by Joseph Shipley, Esq., of Wilmington, Delaware, U. S., formerly of the firm of Brown, Shipley and Co., of Liverpool. The Committee propose to expend this noble gift in the purchase of valuable works, which would be beyond the reach of the ordinary income of the Library, and to distinguish the works so purchased by attaching to them the name of the donor. The new building is spacious and commodious, and well adapted for the purposes of the Institution in its several departments. Both the Museum and Library have been of necessity closed since the 1st of September. The books have been all transferred, and are being arranged and classed, preparatory to the re-opening, which it is expected will take place about the 1st of December. The opening of the Museum will be unavoidably delayed for a longer period, owing to the greater amount of labour connected with the cases and other fittings.

A suggestion was made in the course of the past year by Mr. Brown, that a portion of the new building might be advantageously appropriated for the exhibition of new patents and improvements of a scientific character. In order to provide space for this purpose, Mr. Brown has generously undertaken to bear the expense of erecting a large additional room connected with the new building, about eighty feet by fifty feet, with two spacious galleries round it, which will afford ample accommodation for the purpose. Mr. Brown has also presented the sum of £3,000 towards the fittings, cases, &c., in the Library and Museum.

The noble generosity thus evinced calls for a corresponding effort on the part of all concerned, to spare no pains to render the Institution worthy of the great community for whose benefit it has been established. A large amount of labour, care, attention, and vigilance will still be requisite, to guide and keep it in the path of usefulness and progress; and it is earnestly hoped that, amongst the large and increasing responsibilities of the municipality, the interests and welfare of the Free Public Library and Museum will ever occupy a prominent and distinguished place.

CENTRAL REFERENCE LIBRARY.

The number of volumes issued during the last year has been 195,962, as against 202,534, during the previous year. At first sight this seems a falling off to the extent of 6,572 volumes; but when the circumstances of the issues are analysed, not only is this accounted for, but results of a most gratifying character present themselves. At the opening of the Library, and for some time subsequently, a very large proportion of the books called for were works of imagination and amusement. These being soon read, and each work frequently extending to several volumes, the issues in this department were very large. By little and little, the per centage of these works has been diminishing, and the proportion of the demand for higher class literature has been increasing, showing strongly the progressive character of the mental culture, which a taste for reading imparts. The following is the tabulated statement of the issues during the past year:—

Classification.	Volumes.	Daily Average, about
Theology, Morals, and Metaphysics	6352	22
Natural Philosophy, Astronomy, Chemistry, &c.	7137	25
Natural History, Botany, Mineralogy, &c.	3167	11
Science and the Arts, Architecture, Painting, Music, &c.	10903	38
History and Biography	16348	57
Topography and Antiquities	2901	10
Geography, Voyages, and Travels.....	10188	35
Miscellaneous Literature	56002	195
Jurisprudence, Law, and Politics	1068	4
Commerce, Political Economy, and Social Statistics	745	3
Education, Logic, Language, &c.	4703	17
Poetry and Dramatic Literature	8704	30
Works of Imagination.....	62395	217
Classical Literature	893	3
Heraldry, Encyclopædias, and Works of Reference	4396	15
Total	195962	

From the above statement, as compared with that of the previous year, the following results appear:—

In works of imagination and fiction there has been a falling off in the demand of 12,950 volumes.

In general literature the demand has been about stationary.

In all the other classes there has been an increase, amounting in the whole to 7,228 volumes; but the most remarkable circumstance is the fact that the higher the class the larger has been the proportionate increase. Thus, in history and biography, the issues have risen from 14,442 to 16,348; in geography, voyages, and travels, from 8,855 to 10,188; in natural philosophy, from 6,780 to 7,137; in science and the arts, from 9,647 to 10,903 volumes. A more gratifying proof could hardly be given of the progressive character of the education afforded, and of the gradual extension of the benefits of the Library.

During the year 2,109 volumes have been added to the Library; 1,751 by purchase, 60 by donation, 245 from the Commissioners of Patents, and 44 volumes of Parliamentary Papers, &c., making the present contents of the Library 31,453 volumes.

These are classified as under:—

	1859.	Additions.	Total 1860.
Theology, Morals, and Metaphysics	2003	155	2158
Natural Philosophy, Astronomy, &c.	831	61	892
Natural History, Botany, &c.	1440	90	1530
Science and the Arts, Architecture, &c.	2247	398	2645
History and Biography	4746	357	5103
Topography and Antiquities	1306	67	1373
Geography, Voyages, and Travels	2117	141	2258
Miscellaneous Literature	5268	273	5541
Jurisprudence, Law, and Politics	2853	115	2968
Commerce, Social Statistics, &c.	347	27	274
Education, Logic, Language, &c.	301	71	372
Poetry and Dramatic Literature	1402	91	1493
Works of Imagination	3603	146	3749
Classical Literature	137	16	153
Heraldry, Encyclopædias, and Works of Reference	843	101	944
	29344	2109	31453

A very interesting and valuable donation has been recently announced from the Liverpool Auxiliary Bible Society, to consist of copies of the Holy Scriptures in all the languages in which they have been published by the Society. This donation will be the more acceptable, as the Committee some time since had resolved to appropriate a large room in the new building for the purposes of Scriptural illustrations, in books, manuscripts, drawings, engravings, specimens of natural history, and everything desirable for the biblical student.

LENDING LIBRARIES.

THIS branch of the Institution continues to increase both in extent and usefulness, and is at present in a highly satisfactory state of order and efficiency.

The number of books issued during the year has been as follows :—

	Volumes.	Readers.
At the North District.....	222440	4201
„ South District.....	241272	4448
Total	463712	8649

being an increase in volumes issued of 27,203, and of 373 readers.

The number of volumes circulated from these Libraries is somewhat remarkable, and deserves a little notice, as being, it is believed, greater than that of any other Library in existence. Nearly half a million of books are issued, and the same number received, within the year, being nearly 3,000 per diem, 332 for each hour, or nearly 6 per minute during the whole time the Libraries are open to the public. The machinery by which this is accomplished is exceedingly simple. One Librarian, with an assistant, and two or three intelligent boys, at each District Library, are found sufficient; but the strictest adherence to order and rule is found absolutely requisite. With the present staff and accommodation it is believed that the maximum has been nearly reached, beyond which it will be difficult to carry the operations of the Libraries without the establishment of fresh districts, for which the means at the disposal of the Committee are not at present adequate.

The number of female readers has much increased of late. At present there are 6881 male readers and 1768 females. It is stated by the Superintendent that the class of books taken out by the females is almost invariably works of fiction. Nothing can more strongly mark the necessity for such an institution than this fact, for it has been invariably found that those who begin with works of imagination, and are supplied with those of a healthy moral tone, gradually acquire a taste for books of a higher class. At present, however, this fact swells the proportion of the issues of light literature unduly. It is now $65\frac{3}{4}$ per cent. of the entire.

The issues of embossed books to the blind have been 773 volumes during the year. This is a feature of the Libraries which all must look upon with sympathy and pleasure, as opening to an unfortunate class of our fellow creatures a source of delight hitherto sealed up from them.

A great demand has arisen for the circulation of musical books, a class which was added about two years ago. The Operas, Oratorios, &c, of the best composers are greatly sought after for the purpose of copying. The circulation of this department during the year has been 2,028 volumes.

During the year, fifty-three books have been lost or injured whilst in the hands of borrowers, forty-eight of which have been replaced by the defaulters, and the remaining five by the guarantees.

It may be interesting to state the ages of the 8,649 readers using the Libraries. 4,303 are between fourteen and twenty-one years, 2,834 between twenty-one and thirty-five, 1,150 between thirty-five and fifty, and 362 above fifty years.

The instances which are continually coming to light of the special usefulness of these Lending Libraries, are interesting in the highest degree, but would be too long for insertion here: The opportunities given to working men of perfecting themselves in the studies belonging to their own occupations by access to the best books, have proved in many cases most valuable. Very recently the Superintendent reports that a labouring man, who has obtained all his education by means of these Libraries, has gained one of the prizes offered by a London publisher for an essay on the education of the working classes, and that the same man has recently been appointed manager of a chemical manufactory; a promotion due, according to his own statement, to the advantages hence derived. Grateful testimonies are continually received from the sick and bedridden, and from the unemployed in seasons of commercial stagnation, of the blessings conveyed by the books taken out.

The following statement of a Clergyman as to the class of books read by the people in his district is worthy of notice: — "I was," says he, "surprised and delighted to find, in making a round of evening visits to the working people with whom I am connected, to meet so many reading books from the Lending Libraries; and my astonishment was the more on looking at the thoughtful and instructive character of the works, which I found them both reading and studying."

Testimonies of this character are an ample reward for any labour and anxiety in the management of institutions like these, and present the strongest encouragement to future efforts.

During the year, 3,000 volumes have been added to the collection, which now numbers as follows: —

	Volumes.
North District.....	12799
South „	13877
Total	26676

THE DERBY MUSEUM.

The number of visitors during the year has been 117,475, being a daily average of 551.

The accessions to the collections since the date of the last report are as under:—

DONATIONS.

An Otter, Young Shark, and a Cloak from the Sandwich Islands; presented by J. O. W. Fabert, Esq.

A small Rodent, apparently undescribed, from Burmah; presented by Dr. Adams, 22nd Regiment Foot.

The Skull of a Cetacean, (*Lagenorhynchus Asiæ*), from the Kooria Moorias Islands; by Dr. Collingwood.

Two Albatrosses; by Captain Owen Lloyd.

The Skeleton of an Albatross; by Mr. Charles Green.

Two Whistling Ducks, from Mexico; by S. Baker, Esq.

A Siren, or Mud Eel (*Siren lacertina*); presented by Nathan W. Moore, Esq., Rhode Island.

A Sea Snake, taken off Trinidad; presented by Dr. D. P. Thomson.

Eight Reptiles and a Gorgonia, from Ceylon; by H. Duckworth, Esq.

A fine specimen of the Dolphin (*Coryphæna*); presented by Messrs. Bradley Brothers.

A specimen of the Anglesea Morris (*Leptocephalus Morrisii*), a small but rare fish, taken at Egremont; presented by Professor Byerley.

A collection of shells, chiefly freshwater, from North America; presented by Rev. H. H. Higgins.

The "Pen" of a Gigantic Squid, Two Portuguese Men-of-War (*Physalia*), and Two Fish; presented by Captain Mortimer.

Two Squids from Madagascar; presented by Captain Menzies.

Twenty-four species of Shells, from Oporto; presented by J. d'Aguilar Newton, Esq., Oporto.

Four specimens of *Lymnæa involuta*, from Killarney; by N. Cooke, Esq.

Three Scorpions; by William Brown, Esq.

Forty species of British Lepidoptera; by Dr. Wallace.

A Slab of New Red Sandstone, from Park Hill Road, Liverpool, showing traces of glacial action; presented by Messrs. G. H. Morton and H. Duckworth.

A large series of Rocks and Minerals, collected in Java by the late Dr. Horsfield; presented by his executors, S. C. Horsfield, Esq., and the Rev. F. Scholefield.

A "Fish Pot," from Jamaica; presented by Captain Rae.

Minor donations have been presented by Dr. Adams, Mr. Chadburn, Mr. J. C. Nesbit, Mr. C. F. Ireland, Mr. T. Griffin, Mr. Thomas Williams, Mr. Wm. Angus, Mr. Hulse, Mr. Scott, Mr. Thos. Chaffers, Mr. Newby, Mr. W. W. James, Mr. F. L. Gelling, Mr. C. J. English, Mr. R. Crierie, Mr. Edmondson, Mr. J. Muir Dowie, Mr. B. Staley, Mr. R. M. Beckwith, and Professor Archer.

During the year the following purchases have been made:—

A valuable series of Mammoth Bones and Tusks, and other additions to the Geological Collection, chiefly from the Tertiary formation.

Seventeen Quadrupeds, nine Birds, fifteen Mounted Skeletons, sixty Reptiles and Fish; a series of Shells, illustrating the mode of growth and reparation, formed by the late Dr. Gaskoin; one hundred Insects, forty-two Crustacea, seventy-nine Corals and Radiates, and sundry specimens preserved in spirit.

The Collections are at present in process of transfer to the new building, where provision is being made to display them to more advantage than has hitherto been possible. In addition to the Botanical, Zoological, and Geological specimens, there are several valuable models, and other interesting articles, which will have more room for their display.

The Act of Parliament obtained in 1852, under which the Institution was established, entitles it the "Free Library, Museum, and Gallery of Arts." Up to the present time little or no opportunity has been afforded for the development of the latter department, but it has by no means been lost sight of by the Committee. Some time since a very valuable collection of casts from the antique statues and bas-reliefs was purchased, which, for want of space, has hitherto been deposited in St. George's Hall. A number of pictures have also been presented to the Gallery; some of considerable merit. These have been cleaned, and the frames

re-gilt, and are now transferred to the reading room. The portrait of Mr. Brown, painted by Sir J. W. Gordon for the Corporation, and one of the Chairman, painted by Robertson for the Committee, have also been placed there. The great picture of the Crucifixion, painted by Hilton, R.A., for the Corporation, and formerly at the Town Hall, has been removed to the new building; and a picture of Mont Blanc, by Fripp; presented by James Robinson, Esq., it is expected will also be placed there. Very recently a beautiful portrait of Roscoe, by Sir M. A. Shee, P. R. A., has been presented by the Earl of Leicester, and another of Messrs. Sandars, George Stephenson, and C. Sylvester, by Joseph Sandars, Esq. of London.

It is hoped that the nucleus thus formed may soon lead to further acquisitions, so that the Gallery of Arts will be a reality as well as a name.

BOTANIC GARDENS, PUBLIC PARKS,
AND SQUARES.

During the year considerable improvements have been made in the Gardens. Two propagating houses have been erected, at an expense of about £700. A large sheet of water has been constructed in the Park; and a pavilion has been erected, for the performance of music in the summer months.

The squares and gardens in the town have been maintained in a clean and orderly condition; but great difficulty is felt from the impossibility of preserving evergreens and delicate shrubs alive.

CASH ACCOUNT.

From the account of receipts and disbursements, it will be seen that, by means of economy, a sum has been accumulated towards the fitting up and furniture of the new building, to avoid borrowing, which the Committee feel to be undesirable, and wish to avoid.

Signed on behalf of the Committee,

J. A. PICTON, Chairman.

OCTOBER 26TH, 1860.

		s.	d.	£	s.	d.
1859.						
Sept. 1.	Cash in the hands of Messrs. Heywood & Co. ..	86	1			
	" in the hands of the Chief Librarian	20	1			
	" in the hands of the Keeper of the Museum	0	0			
	" in the hands of the Curator of the Gardens	<u>2</u>	<u>19</u>			
					109	2 10
	" received from the Rate for the year 1859 ..	1237	1			
	" " " " 1860 ..	<u>5760</u>	<u>18</u>			
					6997	19 11

Amount carried forward £7107 2 9

BOTANIC GARDENS.

	£	s.	d.	£	s.	d.
By J. W. Birschel, Curator, Salary for twelve months.....	105	0	0			
„ Gardeners' Wages	637	14	5			
„ Redemption Fund, $\frac{1}{7}$ of £3,800, for the purchase of the Gardens, £126 13s. 4d.; Interest on Balance, £3,166 13s. 4d., at 4 per cent, £126 13s. 4d.	253	6	8			
„ Propagating House, Weeks & Co., for Boilers, Tubes, &c.	208	0	1			
„ „ Witter & Co., for Building, &c.	269	9	0			
„ Gravel, £12 2s. 2d.; Manure, £6 5s. 9d.; Cartage, £26 8s. 11d.	44	11	10			
„ Plants, Bulbs, and Seeds	107	0	11			
„ Flower Pots, £26 7s.; Vase, £1 14s.	28	1	0			
„ Water, £11; Surgeon's Bill, accident to Workman, £3 3s.	14	3	0			
„ Insurance and Taxes	13	5	6			
„ Gas, £4 8s. 2d.; Coke, £12 3s. 10d.; Coals, £47 15s. 6d.	64	7	6			
„ Masons' Work, Plastering, Repairs, &c.	64	7	0			
„ Paint, Oil, &c., £13 7s.; Painting, Plumbing, and Glazing, £93 16s. 4d.	107	3	4			
„ Joiners' Work, £13 4s. 11d.; Repairing Clock, &c., £1 1s. 3d.	14	6	2			
„ Books, £7 3s. 6d.; Binding, £1 16s. 10d.; Stationery, £3 7s. 9d.	12	8	1			
„ Cars to Gardens, Knowsley, &c.	3	15	0			
„ Repairing Wheels, Cart, &c., £5 10s.; Recasting Bell, £1 13s. 6d.	7	3	6			
„ Glass, £6 10s.; Iron Hurdles, £5 1s.	11	11	0			
„ Seythes, £2 8s.; Brooms, 10s. 8d.; Gratuity to Work- man, £2 2s.	5	0	8			
„ Candidates' travelling expenses, £6; Advertisements, 14s. 6d.	6	14	6			
„ Cleaning Library, £5 5s.; Manure, £1 2s. 4d.	6	7	4			
„ Cartage and Carriage, £16 13s. 3d.; Implements, 6s. 11d.	17	0	2			
„ Oil, 1s. 10d.; Repairs, 9d.; Travelling Expenses, £1 5s. 1d.	1	7	8			
„ Sweeping Chimneys, 8s.; Sponges, Brushes, &c., 10s. 4d.; Cab Hire, 2s. 6d.	1	9	10			
„ Soap, Soda, &c., 10s. 9d.; Tobacco Paper, 8s.; Twine, 13s. 0½d.; Birch, £1 2s. 6d.	2	14	3½			
„ Postages, 15s. 10d.; Drinking Cups for Band, 4s. 4d.;						
Seeds, £1 15s.	2	15	2			
„ Penalty for leaving Gravel on the Quay	0	9	6			

Amount carried forward £2009 13 1½

To Amount brought forward £ s. d.
7107 2 9

Amount carried forward £7107 2

	£	s.	d.
By Amount brought forward	2009	13	1½

DERBY MUSEUM.

SALARIES, WAGES, &c. :—

By J. T. Moore, Keeper, Salary for twelve months	150	0	0
„ J. F. Kirby, Assistant, „ „	73	15	0
„ Wages to Assistants and Charwomen	275	12	0
„ Uniform Clothing to Assistants	23	2	0

STOCK AND FITTINGS:—

By Joiners' Work, Stands, Glass Cases, &c.	78	18	10
„ Ironmongery, Iron Work, and Timber	25	9	11
„ Specimens purchased, £190 9s. 6d.; stuffed and set up, £71 5s.	261	14	6
„ Friezes, £20; Camera, &c., £23 17s. 3d.	43	17	3
„ Plans for new Building, £4 2s. 6d.; Zinc Labels, £1 12s. 9d.	5	15	3
„ Glass Boxes, £9 16s.; Glass, £11 15s. 10½d.; Cord, £1 14s. 6d.	23	6	¼
„ Microscope, £57 16s.; Copying Press, £1; Cans, 19s.	59	15	0

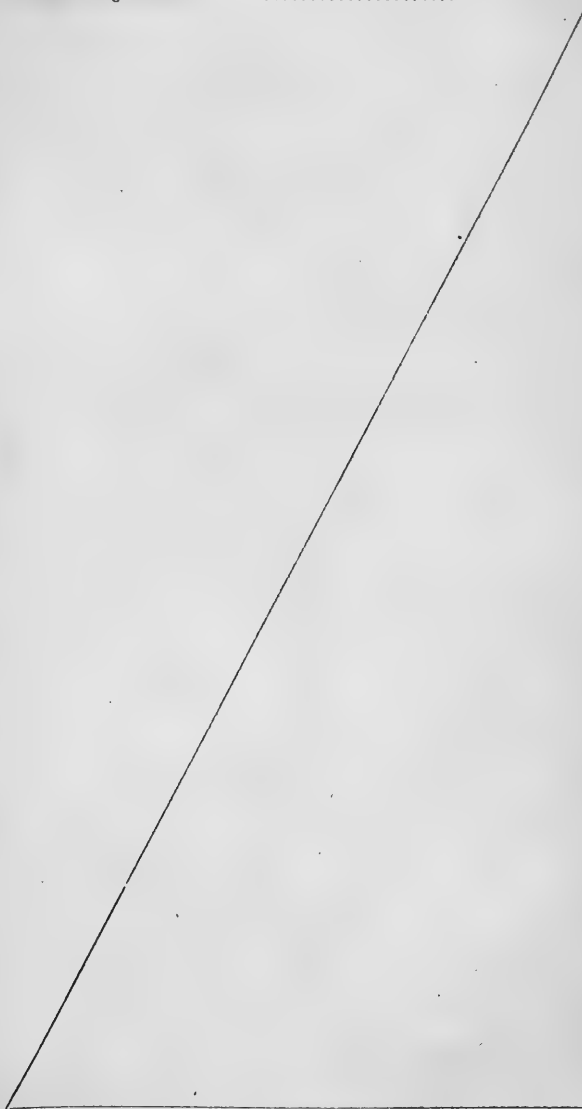
CURRENT EXPENSES:—

By Gas and Coals	24	19	1
„ Printing, £2 17s. 6d.; Stationery, £8 11s. 4d.	11	8	10
„ Cleaning Models, £3 7s. 5½d.; Sweeping Chimneys, £2 11s. 3d.	5	18	8½
„ Spirits of Wine, Camphor, Soap, &c.	5	19	3
„ Insurance, £29 16s. 9d.; Paid Reporters, £4 13s. 10d.	34	10	7
„ Painting, Glazing, &c., £11 2s. 9d.; Repairs, £9 10s. 8d.	20	13	5
„ Travelling Expenses, £20 11s. 10d.; Carriage of Specimens, £2 18s.	23	9	10
„ Advertisements, £4 7s. 3d.; Water, £4 9s. 11d.	8	17	2
„ Paid for arranging Geological Specimens	10	0	0
„ Brushes, Dusters, Scouring Cloths, &c.	3	4	9
„ Purchase of Specimens, £6 4s. 2d.; Carriage of ditto, £10 16s. 4d.	17	0	6
„ Collecting Expenses, Implements, Jars, Glasses, &c.	7	15	6
„ Soap, 10s.; Brushes, 11s. 1d.; Travelling Expenses, £1 9s. 4d.; Cement, 4s.	2	14	5
„ Glazier's Diamond, 7s. 6d.; Collecting Apparatus, £1 14s. 3½d.	2	1	9½
„ Carting Timber, &c., 8s. 6d.; French Polish, 7s. 3d.; Stamps and Postages, £1 14s. 5d.	2	10	2
Sundries, Maps, Tape, Keg, Plants, Soda, &c.	2	17	8½

1205 7 10

Amount carried forward £3215 0 11½

	£	s.	d.
To Amount brought forward	7107	2	9



Amount carried forward	£7107	2	9
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	£	s.	d.
By Amount brought forward	3215	0	11½

REFERENCE LIBRARY.

SALARIES, WAGES, &c. :—

By J. Stuart Dalton, Chief Librarian, Salary, 12 months	180	0	0
„ George Hudson, Sub-Librarian, ditto	80	0	0
„ Wages to Assistants, Porter, two Boys, and Cleaning the Rooms	182	17	0
„ Uniform Clothing for Porter	4	14	9

CURRENT EXPENSES :—

„ Rent, £50; Insurance, £29 14s.	79	14	0
„ Gas, £41 17s. 6d.; Coals, £11 7s. 6d.; Painting, Repairs, &c., £2 4s. 8d.	55	9	8
„ Joiners' Iron Work, £4 4s. 1d.; Assistant, Writing Catalogue, £12	16	4	1
„ Brushes, £1 12s.; Stationery, £6 11s.; Settee, £1 19s.	10	2	0
„ Refreshment for Special Committees, Gratuities, &c.	5	7	6
„ Taxes, £2 15s. 10d.; Stamp and Die, £3 3s. 6d.	5	19	4
„ Paid Reporters, £4 13s. 10d.; Travelling Expenses, £13 0s. 6d.	18	0	4
„ Printing Slips, &c., £27 10s.; Copying Press, £1 5s.	28	15	0
„ Carriage of Books, £6 13s. 5d.; Ditto from Town Hall, 7s. 6d.	7	0	11
„ Postages, £1 3s. 5d.; Postage of Reports, £1 2s. 6d.; Postoffice Orders, £1 0s. 3d.	3	6	2
„ American Books, Carriage, &c., 11s. 6d.; Receipt and Cheque Stamps, 12s. 8d.	1	4	2
„ Books and Prints purchased, £2 3s. 3d.; Slippers for Boys, 8s.	2	11	3
„ Lithographic Notes, Quill Pens, Brushes, Paper, &c.	0	13	6
„ Two Picture Frames, £1 10s.; Lamp, 4s.; Cord for Windows, Scissors, &c., 8s. 6d.	2	8	6
„ Water, £2 4s. 11d.; Soap, 4s. 6d.; Ink, 6s.; Gum, 4s. 1d.	2	19	6
„ Sawdust, Candles, &c., £1 5s.; Sweeping Chimneys, £1 3s. 6d.	2	8	6
„ Interest on Money borrowed	271	7	0
	961	3	2

Deduct, Received in aid of Rate, viz. :—

Discounts, &c.	£1	5	6½
Water Rate overcharged, returned to the Librarian	3	7	5

4 12 11½

956 10 2½

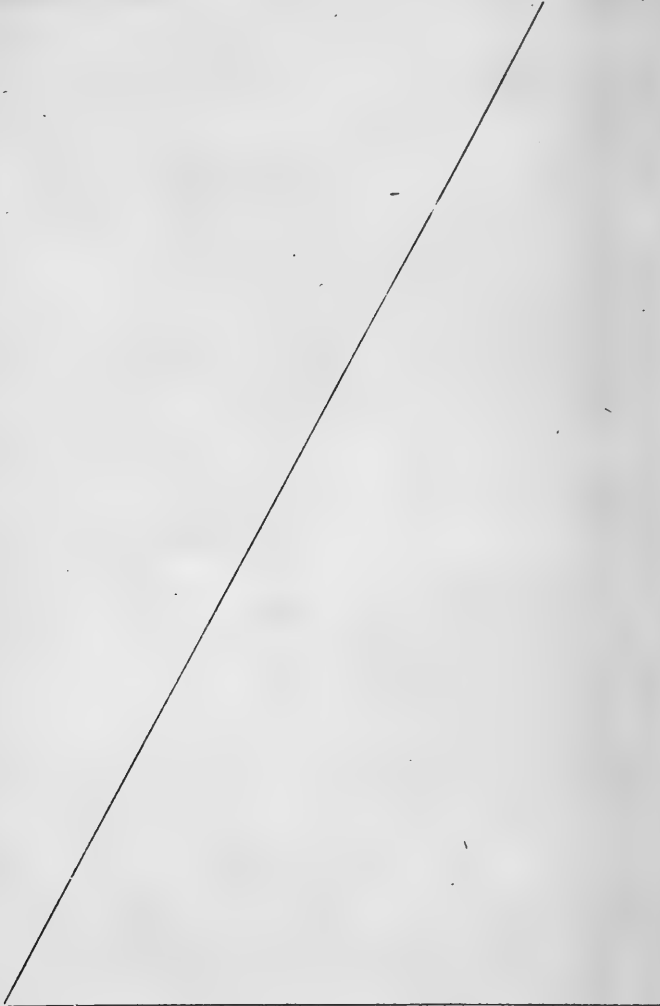
BOOK ACCOUNT :—

By 1751 volumes purchased	1019	3	8
„ Binding, Lettering, and Repairing	133	17	1

1153 0 9

Amount carried forward £5324 11 11

	£	s.	d.
To Amount brought forward	7107	2	9



£7107 2 9

October 10th, 1860.

Examined and found correct,

P. S. RHIND, CORPORATE AUDITOR.

	£ s. d.
By Amount brought forward	5324 11 11

LENDING LIBRARIES.

By W. R. Roulston, Superintendent Librarian, Year's Salary	£120	0	0
„ Peter Cowell, Assistant, ditto	68	18	0
„ J. Rigby, Librarian, North District, ditto	84	3	4
„ Rent, £48 17s. 6d.; Taxes, £16 0s. 6d.....	64	18	0
„ Cash advanced for Disbursements	5	0	0
„ Stationery, including fifteen Day Books, at 19s. each	22	17	0
„ Insurance, £12 7s. 6d.; Water, £4 8s. 8d.	16	16	2
„ Coals, £16 16s.; Gas, £21 0s. 9d.	37	16	9
„ Gas Stove, £2 15s.; Chairs, 12s.; Joiners' Work, £13 5s. 2d.	16	12	2
„ Printing, £11 5s.; ditto Catalogues, £63 6s. 6d.	74	11	6
„ Repairs, £5 11s. 5d.; Brushes, £3 15s.	8	6	5
„ Boys' Wages, £114 13s.; Cleaning Libraries, £33 16s. ..	148	9	0
„ Ink, Gum, Sawdust, Twine, Floor Cloths, &c.	2	14	3
„ Carriage of Books, £1 2s. 5d.; Postages, £2 15s. 6d.....	3	17	11
„ Sweeping Chimneys, &c., 16s. 5d.; Omnibus Hire, 8s. ..	1	4	5
„ Whitewashing Yard, repairing Water Pipe, &c.	2	9	0
„ Blinds, Ironmongery, repairing Locks, &c.	1	14	2

BOOK ACCOUNT :—

By 3,000 volumes purchased	£435	2	5
„ Binding, Lettering, and Repairing	276	19	2
	712	1	7

Deduct received in aid of Rate, viz. :— £1392 9 8

By the Chief Librarian—

On account of Rent of House in Hardy-St.	10	0	0
Overcharge in Water Rate repaid.....	1	2	6

By the Superintendent of the Lending Libraries—

Fines received at the North Library.....	43	16	3
Ditto South Library.....	77	19	6
For Catalogues sold	86	17	6
Tickets and Renewals, £35 10s. 10d.;			
Cash for Disbursements, £5	40	10	10
Sale of Waste Paper	3	11	10
	263	18	5

1128 11 3

Net expenditure out of Rate 6453 3 2

By Balances, viz. :—

Cash in hands of Messrs. Heywood & Co.	607	15	0
Ditto the Chief Librarian	41	4	7
Ditto Superintendent of Lending Libraries	5	0	0
	653	19	7

653 19 7

Rate of 1860 in Arrear, viz. :—

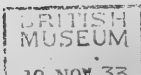
£7107 2 9

Kirkdale	£248	11	8
Toxteth Park	783	15	4

£1032 7 0

CAPITAL ACCOUNT.

Dr.	NEW FREE PUBLIC LIBRARY AND MUSEUM.			CONTRA.	Cr.
1858.		£	s.	d.	
Sept. 1.	To Balance due Heywoods & Co.	1417	7	9	
Dec. 10.	" Cash on account of Land and Premises.....	1050	0	0	
" 16.	" Interest and Law expenses	70	16	8	
		£2538 4 5			
		£2538 4 5			
1859.					
Sept. 14.	By Amount taken up on Bond	500	0	0	
"	" Balance as per contra	2038	4	5	
		£2538 4 5			
		£2538 4 5			
1850.					
Sept. 1.	Balance due Heywoods & Co.	£2038	4	5	



NINTH
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OF THE COMMITTEE
OF THE
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AND
Gallery of Arts,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

NOVEMBER, 1861.



LIVERPOOL:
PRINTED BY D. MARPLES, LORD STREET.



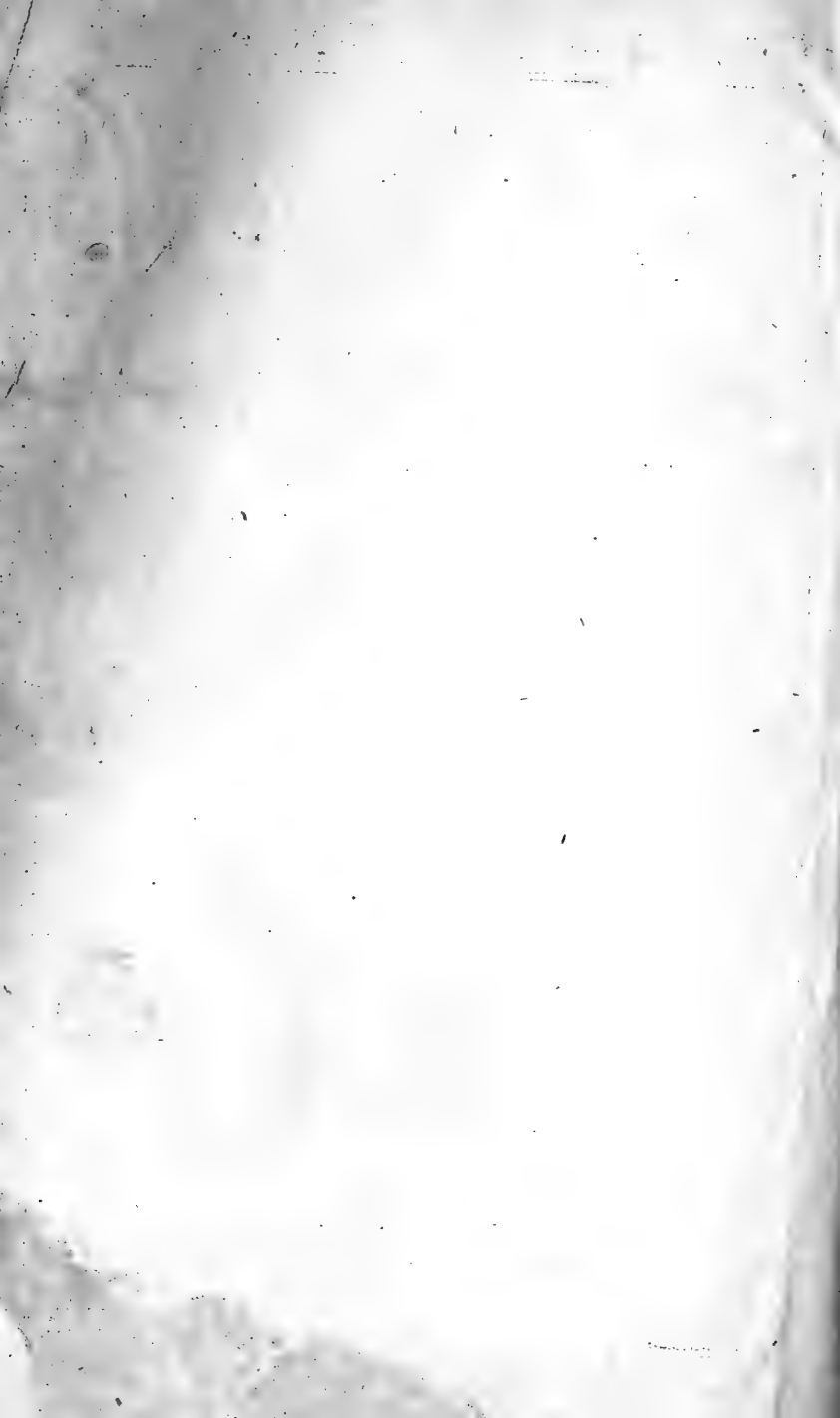
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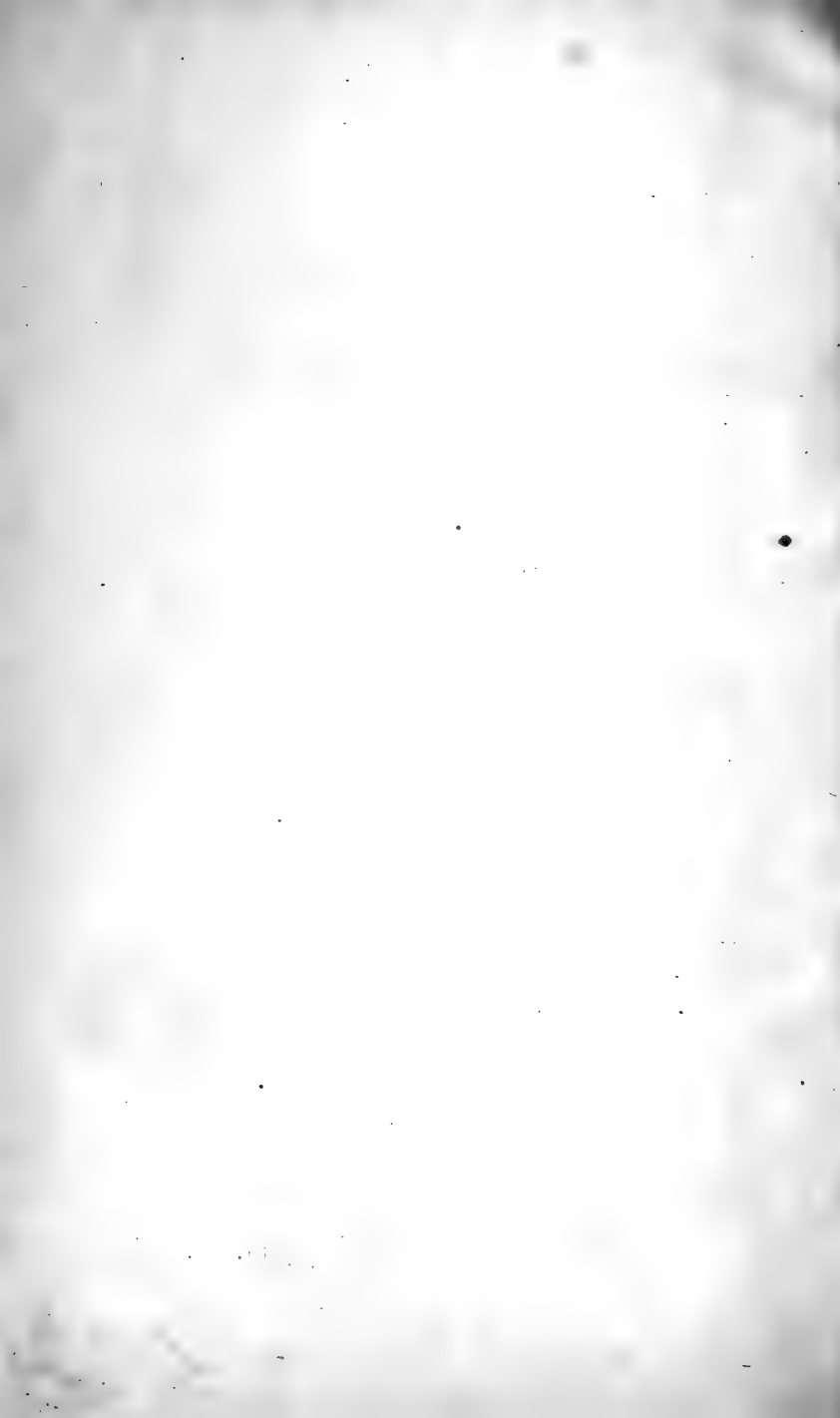
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OFFICERS AND COMMITTEE

FOR THE YEAR 1861.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

THOMAS AVISON, DEPUTY-CHAIRMAN,

R. C. GARDNER, CHAIRMAN OF THE SUB-COMMITTEE OF THE GARDENS,

WILLIAM BARRY,

WILLIAM BENNETT,

WILLIAM BROWN,

CHARLES T. BOWRING,

WILLIAM EARLE,

EDWARD ESTILL,

REV. H. H. HIGGINS,

T. B. JOB,

JOSEPH KITCHEN,

CHARLES MOZLEY,

DAVID RAE,

JAMES STEAINS,

JOHN BUCK SPENCE.

Chief Librarian.

JOHN STUART DALTON.

Sub-Librarian.

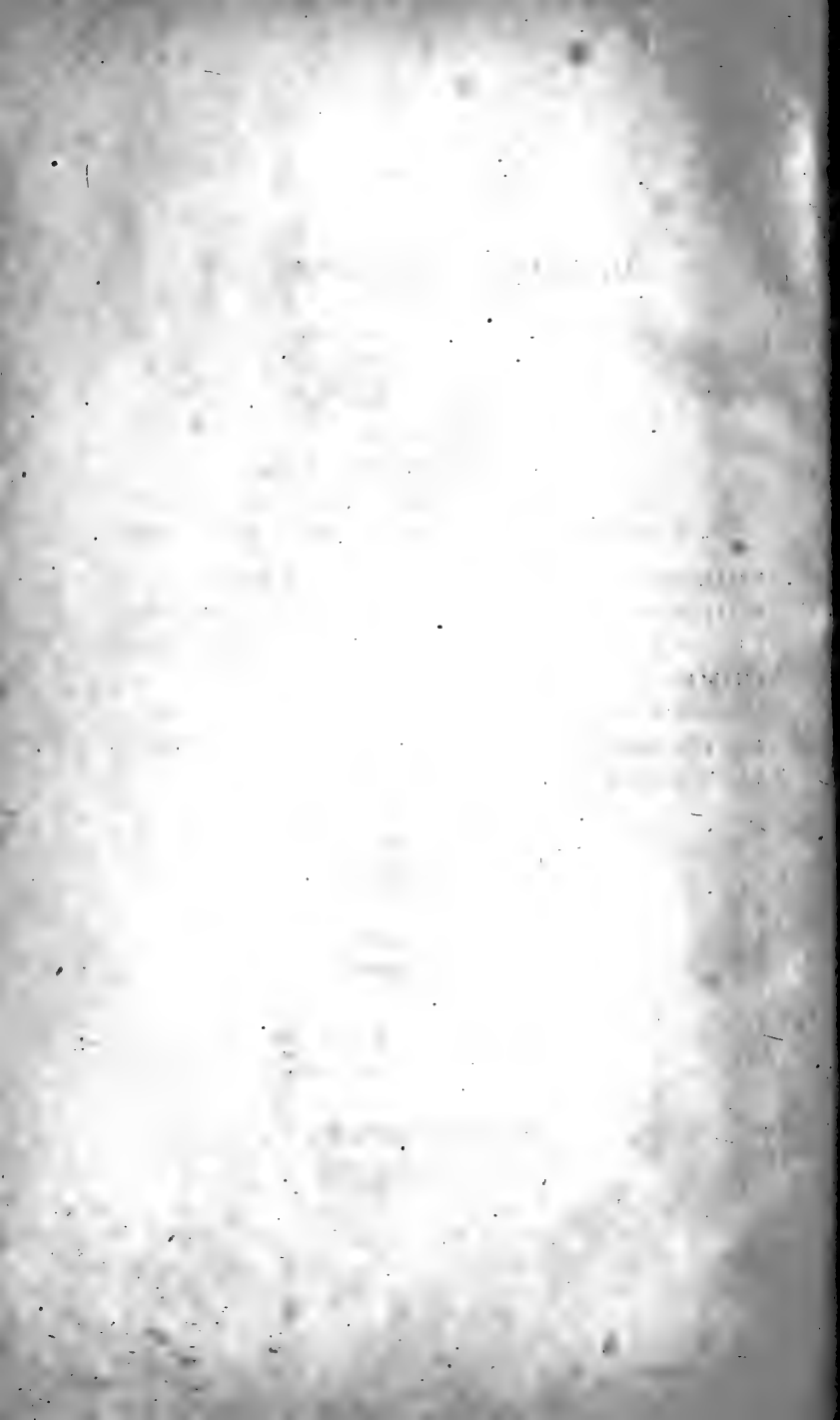
GEORGE HUDSON.

Superintendent of the Lending Libraries.

WILLIAM R. ROULSTON.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

DURING the past year the position of the Institution has assumed a new aspect. From a temporary and circumscribed locality it has been transferred to a noble building, in a prominent and conspicuous situation, with greatly enlarged accommodation for the Reference Library and Museum. Some time after the opening necessarily elapsed before the Books could be rearranged, and the required accommodation provided.

On the 3rd of December the Reference Library and Reading Room were thrown open, since which date the crowded state of the rooms has sufficiently proved the public appreciation of the efforts made for the mental culture of all classes. The results will be shewn below, under their respective heads.

REFERENCE LIBRARY.

An interval having necessarily intervened between the closing of the old Library and the opening of the new one, the statistics of nine months only can be given, to the close of the municipal year. The

issues during that period are as under, besides Magazines and Periodicals.

Classification.	Volumes.	Daily Average, about
Theology, Morals, and Metaphysics	10483	50
Natural Philosophy, Astronomy, Chemistry, &c.	9954	47
Natural History, Botany, Mineralogy, &c.	5211	25
Science and the Arts, Architecture, Painting, Music, &c.	19906	94
History and Biography	25018	118
Topography and Antiquities	4573	21
Geography, Voyages, and Travels	19003	90
Miscellaneous Literature	74583	353
Jurisprudence, Law, and Politics	1762	8
Commerce, Political Economy, and Social Statistics....	1192	6
Education, Logic, Language, &c.	6704	32
Poetry and Dramatic Literature	16110	76
Works of Imagination	96614	457
Classical Literature	1286	6
Heraldry, Encyclopædias, and Works of Reference	5018	23
Total	297417	1406

The daily issues for the previous year were 682, shewing an increase of 728. Several circumstances are worthy of note in connection with this tabulated statement. It may be remarked that the issues have more than doubled during the last year. Whilst this has been the case, the proportionate demand for literature of the higher class has steadily increased.

It is beginning to be admitted by the public that a great Library, common to all classes, is one of the greatest boons which any community can enjoy.

The successful study of any subject usually requires access to collections far beyond the reach of persons in ordinary circumstances, and which few, excepting public libraries, could be expected to possess. This is evinced by the demand for high-class works on Practical Mechanics, Railway Engineering, Shipbuilding, Mathematics, and Art in all its branches. Music also has proved a great source of attraction, for copying out and reference.

The Reading-room, though large, is sometimes overcrowded, from four to five hundred persons being frequently present at one time. A portion of the Reading-room has been set apart for females, the issues being about 40 volumes per day.

A Room has also been provided for the use of Students who require several volumes at a time. The Patent Specifications, of which the

Library possesses the entire series, have been arranged in a separate apartment on the upper floor.

During the year, 2,528 volumes have been added to the Library, viz., 1,725 by purchase, 314 by donation, 448 by the Commissioners of Patents, and 46 volumes of parliamentary papers; there has also been purchased the entire series of the Ordnance Geological Survey, consisting of 318 maps of Great Britain and Ireland, and 40 volumes of explanations; and the valuable donation from the British and Foreign Bible Society, of the translations of the Holy Scriptures into 133 languages, making in all 142 volumes, has been received; making the present contents of the Library 33,981 volumes, placed under the following classification:—

	1860.	Additions.	Total 1861.
Theology, Morals, and Metaphysics	2158	234	2392
Natural Philosophy, Astronomy, &c.....	892	46	938
Natural History, Botany, Mineralogy, &c...	1530	176	1706
Science and the Arts, Architecture, &c.....	2645	592	3237
History and Biography	5103	316	5419
Topography and Antiquities	1373	103	1476
Geography, Voyages, and Travels	2258	141	2399
Miscellaneous Literature.....	5541	346	5887
Jurisprudence, Law, and Politics	2968	143	3111
Commerce, Social Statistics, &c.....	274	18	292
Education, Logic, Language, &c.	372	54	426
Poetry and Dramatic Literature.....	1493	68	1561
Works of Imagination	3749	177	3926
Classical Literature	153	15	168
Heraldry, Encyclopædias, and Works of Reference	944	99	1043
	<hr/>	<hr/>	<hr/>
	31453	2528	33981

MUSEUM.

The transfer of the Collections from Duke Street has occupied a large portion of the past year. The danger arising from damp has delayed until very recently the removal of the Natural History Collections. The fitting-up of the rooms has required much time and a large outlay. These circumstances combined have delayed the opening, which has at length been effected, and, from the number of visitors, the Museum appears very attractive. The upper floor has been fitted up with wall and table cases for the Derby Museum, and a similar arrangement is in progress for the lower floor. The Collection of Casts from the antique has been placed in the large central hall.

The Hall of Science and Inventions is nearly complete.

The Lecture-room and Class-rooms are beginning to be made available for scientific and literary purposes. A School of Science, principally for the working-classes, has been inaugurated, under very favourable auspices. The building is thus being made available to the fullest extent for the intellectual improvement of the community.

The following donations have been received during the year :—

A Lion; by Mr. Mander.

The Skeleton of an Alpaca; by Alfred Higginson, Esq.

Two Ostriches, a Rhea, Two Porcupines, Two Monkeys, a Seal, and a Pelican, &c.; by Mr. Hulse.

A Tapir, Coati, Three Monkeys, and Four Serpents; by Mr. Newby.

Three Mammals and Five Birds, from Australia; by C. Aspinall, Esq.

A pair of Ibex Horns, a Shark's Jaw, &c.; by Captain Keane.

The Skull and Horns of an Indian Buffalo; by Captain Sharp.

An Egg of the Little Auk (*Alca alle*); by Dr. D. Walker.

A Nest of the Banana Bird; by Messrs. Walthew and Cuthbert.

A Black-shouldered Peacock; by W. H. Grimmer, Esq.

A Genet and Two Falcons, from Victoria, West Africa; by S. B. Jackson, Esq.

The Nest of an Indian Weaver Bird; by Captain Mackay.

A large Crocodile, from Jamaica; by Captain Griffiths.

Eight Reptiles, from Ceylon, and a Sponge, from Savannah; by H. Duckworth, Esq.

A Gecko, from Moulmein; by F. Holme, Esq.

A Blind-fish and Crustacean, from the Mammoth Caves of Kentucky, Seven Fossil Footprints of Birds, from Connecticut, and a fine Coral; by Captain Anderson (R.M.S. "Europa").

Six Graining, from the River Alt; by James Reston, Esq.

Two Dog-fish; by Dr. Collingwood.

A Tiger Shark, Pearl Shark, a Saw-fish, and other fish, from Madras; by Arnold Baruchson, Esq.

Twenty Blue Roach; by the Earl of Derby.

Two living fresh-water Turtles (*Trionyx ferox*), a King Crab, Bottle of Snakes and Fish, numerous marine Invertebrata, collected and preserved by himself; a small series of Minerals, from New Brunswick, living Mollusca and Anemones, from the same, and the Model of a Sitka Canoe; presented by Captain Mortimer, ship "Florida."

Two Thousand Five Hundred Shells; by Miss Ellen Yates.

A specimen of *Squilla stylifera*; by the Bishop of Mauritius.

A Group of Balani, specimens of *Janthina* and their Rafts, Three Fish, from the Indian Ocean, several Shells, and Two Sponges; by R. Keen, Esq.

Several specimens of Trepang, from Borneo, and specimens illustrative of the production and uses of Lac; by F. Moore, Esq.

Two Thousand specimens of Coleoptera; by Charles Melly, Esq.

A Wasp Nest and Snake; by Captain Cox.

A fine specimen of the Organ Coral, a collection of Gorgonias, Five Cases of Insects, &c.; by J. O. W. Fabert, Esq.

A collection of Zoophytes, from Bootle; by Edgar Fletcher, Esq.

Six Fossil Bones, from the Pleistocene Beds, and Three other Fossils; by G. H. Morton, Esq.

A large Boulder, from Hackins Hey; by J. A. Picton, Esq.

Two Casts of *Cheirotherium* Footprints, from Stourton and Saxony; by A. Higginson, Esq.

One Hundred Scottish Rocks; by John Aiken, Esq.

A large Stalactite, from Worcestershire; by Mr. Hobbs.

Sixty-eight specimens of Devonian Fossils, chiefly corals, cut and polished; by — Pengelly, Esq.

A block of Lava, from Mount Hecla; by David Gladstone, Esq.

A fine Group of *Magilus*, from the Kooria Moorria Islands, and several *Janthina*; by Captain Jinman.

A series of samples of Canadian Timber; by — Dobell, Esq.

A larger series of the same; by Hon. Philip Van Koughnet, Commissioner of Crown Lands, Quebec.

A large collection of Egyptian Antiquities, Mummies, &c.; by William Crosfield, Esq.

Spears, Shield, Cross-bow, and Arrows, from Arracan; by J. H. Groos, Esq.

A Box of Geological specimens, Birds, Reptiles, &c., from Malta; by Dr. Adams, 22d Regiment.

Sundry Fossil Mammalian Teeth, from Cefn Cave, by Misses Southern.

Three Camboja Coins; by William Brown, Esq.

A Votive Tablet, by Roscoe, from the foundation of Birchfield House; by Mr. Thomas Kaye.

A large Canoe, from Malabar, by Captain Mackay.

The Rostrum of a Saw-fish; by Captain Farley.

Four Fish, Two Birds, and Marine specimens (Biphorus, &c.); by Captain Carmichael.

Minor donations have been received from Messrs. Lecker, W. B. Greetham, J. Allen, E. T. Higgins, Cope, Barrett, J. Buck Lloyd, A. White, Alexander, W. A. Slater, Boulton, and Bartlett.

PURCHASES.

Thirty-four specimens of Birds and Mammals, including a young specimen of the Greenland Whale, five feet in length.

Fifty-eight specimens of Fish, including several specimens of the Electric Eel, and a fine British example of the Opah, or King Fish, a species of great rarity.

Eighty-two specimens of Mollusca, Crustacea, and Radiata, including a very fine example of the rare *Pentacrinus Caput-Meduse*, from the Bay of Honduras, and of which not more than a dozen specimens are known to have been captured.

Sixty specimens of Fossils, Minerals, &c., including a fine series of Agates, from China.

Thirty Skeletons of Mammals, Birds, and Reptiles.

EXCHANGES.

Several important additions have been made by exchange, of which the following are the principal:—

Thirty-seven species of Fish, Seventeen of Reptiles, and Twenty-six of Radiata and Shells, and living specimens of the remarkable Horse-shoe Crab, or King Crab (*Limulus*), of North America; from Professor Agassiz, Cambridge, Massachusetts.

One Hundred and Thirty Fossils; from the Royal Mineralogical Museum of Dresden.

A fine specimen of a rare British Sea Urchin (*Cidaris papillata*), and an Axolotl, from Guiana; from Queen's College, Belfast.

A Box of Insects and other specimens; from H. Denny, Esq., Philosophical Museum, Leeds.

A living specimen of the American Proteus (*Menobranchus maculosus*); from the Warrington Free Public Museum.

Sixty species of Fish, from Madeira, have been obtained through the kind offices of J. P. G. Smith and J. Yate Johnson, Esqrs.

Exchanges are also in negotiation with the Oxford University Museum, through the kind offices of Dr. Collingwood.

LENDING LIBRARIES.

This portion of the Institution is still progressive, as the following statistics will shew —

NUMBER OF VOLUMES LENT DURING THE YEAR.

North District Library	247126
South District Library	242773
	Total Issues
	489899
Increase over the previous Year.....	26187

These numbers are large, but might be indefinitely increased did means permit. With the present staff and arrangements, the maximum has been reached, and it has been found absolutely necessary to limit the number of readers to nine thousand, filling up vacancies as they occur.

From the commencement in October, 1853, to the present time, 30,913 persons have, for longer or shorter periods, enjoyed the privilege of borrowing books, while, so orderly has been their behaviour, that not a single individual has had his Ticket of Membership withdrawn for misconduct.

That the Libraries are largely used by the parties for whom they were primarily intended, a glance at the occupations of the borrowers, as given by themselves, will shew, classified under the following heads: —

	North.	South.	Total.
Merchants' and Shopkeepers' Apprentices, Office Lads, and Schoolboys	1187	1003	2190
Mechanics, Labourers, Warehousemen, and Police Officers	1662	1060	2722
Clerks, Shopmen, and others employed in Shops	467	630	1097
Teachers, Pupil Assistants, and Scripture Readers	114	117	231
Shopkeepers, and others engaged in business on their own account	93	138	231
Merchants, Agents, and Accountants	98	107	205
Professional Men and Students	32	24	56
Business not ascertained (principally Females)	784	1157	1941
	Total	4437	8673

Males, 6,771 ; females, 1,902. There are 2,901 borrowers between 14 and 21 years of age, a period of life when impressions for good or evil are readily made, and character is generally formed. It is therefore peculiarly gratifying to find so large a number of young persons availing themselves of the opportunities here afforded for self-cultivation, and this fact is in itself a most hopeful sign for the future.

There are 37 blind persons thankfully availing themselves of the privilege of borrowing books in Moon's embossed type, and during the year 711 volumes of works of this character have circulated among them. The Committee have recently ordered a number of miscellaneous books in the raised type for their especial benefit.

The borrowers at present using the Libraries reside within the following distances of the Branch at which they obtain books —

	North.	South.	Total.
Half-a-Mile	2427	1810	4237
One Mile	1657	1708	3365
One Mile and a Half	225	477	702
Two Miles and upwards	128	241	369
Total	4437	4236	8673

From this it appears that seven-eighths of the readers reside within the radius of a mile of the Library at which they are borrowers.

3,121 volumes have been added to the collection in the past year, and 98 volumes of superfluous duplicates withdrawn from the stock.

In selecting books for these Lending Libraries, the great aim the Committee keep steadily in view is, to provide the working-man not merely with the means of self-instruction, but with healthful and innocent recreation for his leisure hours at his own fireside. In a word, their motto is, "Improve a man's taste, if possible, but don't starve him, by endeavouring to cram him with what he cannot relish."

The books and borrowers are thus distributed :—

	Volumes.	Borrowers.
North District	14416	4437
South District	15283	4236
Total in both	29699	8673

The North Branch has this year taken the lead of the South. The number of borrowers has considerably increased. This is easily accounted for by the rapid growth of the town northward, and the transference of the Timber Trade from the South end to the new North Docks.

The cost of replacing works worn out in the service up to the present

time averages £11 1s. 4d. per annum for each Branch, a small amount, considering the vast circulation, and the varieties of hands and homes into which the books are taken, coupled with the fact that, out of 29,699 volumes in the Libraries, 13,078 volumes were purchased secondhand, and a considerable number of these were well worn when admitted, some having been in Circulating Libraries before. At the same time, it can scarcely be expected that so small an average expense, under this head, can be maintained.

Four books have been irrecoverably lost during the year. The gross loss in eight years amounts to £2 1s. 7d. 59 books have been injured or lost while in the hands of borrowers, and replaced by them or their sureties.

Such facts speak for themselves, as they show unmistakably how the Libraries are appreciated by the community.

During the 310 days the Libraries have been open for business, 359,739 persons applied to have their books exchanged; or an average of about 1,160 per diem.

It is pleasing to be able to record that several Free Libraries have adopted the arrangements here in use, together with the mode of book registry, which is found from experience to be both simple and effective.

BOTANIC GARDENS, PUBLIC PARKS, AND SQUARES.

Under the management of the present Curator, the Botanic Garden has been greatly improved. A typical arrangement of the Botanical Orders and Genera, on the natural system, has been carried out, affording a valuable means of instruction to the student of Botany. The range of plant-houses has been painted and repaired during the year; but it is to be feared that, owing to natural decay, a very large outlay for their rebuilding will have to be incurred before long.

The park and squares have been kept in as good order as circumstances would permit; but the atmosphere of Liverpool is peculiarly unfavourable to vegetable life within its limits.

CASH ACCOUNT.

From the annexed accounts of Receipts and Payments, an unfavourable inference might be drawn, at first sight, as to the pecuniary position of the institution, the debt due to the bankers being £10,701 12s. 8d. Such an inference would, however, be erroneous. The current expenditure for the year has been strictly kept within the limits of the rate authorised by the Council. Circumstances over which the Committee had no control have led to this accumulation of debt, which, however, there are ample assets to meet. During the year, £1,695 9s. 10d. have been paid in fittings for the Museum, and £1,563 3s. 0d. for fittings for the Library. Towards this outlay, £3,000 will be contributed by Mr. William Brown. There is also a sum of £6,673 18s. 6d. due from the rate, which is withheld, owing to a legal dispute. The building in Duke Street will, it is expected, realise over £3,000; thus showing resources sufficient to discharge the present debt, and, it is hoped, to complete the fittings.

The transfer to the new building has widely extended the capabilities and usefulness both of the Library and Museum—the former having doubled the number of its readers, and the latter having largely increased in area and extent. This must, of necessity, lead to considerably increased expenditure, unless the institution, which has been opened with so much *éclat*, and is regarded as one of the chief glories of Liverpool, is to be crippled in its usefulness.

The Committee appeal confidently to the Council and the public of Liverpool to afford them that generous support which the necessity and importance of the case so imperatively demand.

	£ . s. d.
By Balance due to Messrs. Heywood & Co., 31st of August, 1860, on Capital Account	2038 4 5

BOTANIC GARDENS.

By Redemption Fund, $\frac{1}{10}$ th of £3,800, for the purchase of the Gardens, £126 13s. 4d., Interest on Balance, £3,040, at 4 per cent., £121 12s.....	£248 5 4
„ J. S. Tyerman, Curator, Salary at £105 per annum	112 3 9
„ Gardeners' Wages	622 7 0
„ Sand and Moss, £1 11s.; Birch Binding and Twine, £1 10s.; Swan, Geese, £1 10s.	4 11 0
„ Insurance, £4 2s. 6d.; Taxes, £7 18s. 6d.; Water, £10 10s.	22 11 0
„ Plants, £44 3s. 1d.; Seeds, £16 3s. 2d.; Flower Pots, £17 3s. 6d.	77 9 9
„ Spades, Scythes, &c., £8 16s. 3d.; Ironwork, £21 19s. 2d.; Hose, £3 13s. 6d.	34 8 11
„ Furniture for Lodge, £5 16s.; Advertising for Curator, £2 17s. 6d.....	8 13 6
„ Railway Fare, ex-Curator, £8; Books, £13 19s. 6d.; Nails, &c., £1 9s. 6d.	23 9 0
„ Drain Tiles, £1 8s. 6d.; Paint and Oil, £1 0s. 8d.; Birch, £1 8s.	3 17 2
„ Cistern and Slate Labels, £5 16s.; Carriages to Squares, &c., £2 12s.	8 8 0
„ Gravel, £39 7s. 4d.; Soil, £4 9s. 11d.; Repairing Clock, 12s.	44 9 3
„ Repairing Water Pipes, &c., £8 18s. 2d.; Stationery, £1 12s.	10 10 2
„ Coke, £53 8s. 9d.; Gas and Repairs, £4 1s. 11d.; Coals, £11 5s.	68 15 8
„ Mason and Plasterers' Work, £39 12s.; Joiners' Work, £14 7s. 8d.	53 19 8
„ Plumbing, Glazing, &c., £54 6s. 9d.; Cartage, £7 16s. 8d.; Painting, £14 9s. 1d.	211 9 6

PETTY DISBURSEMENTS:—

By Cleaning Library, £5 6s.; Sand, 12s.; Gum, 1s. 8d.; Brooms, 2s.	6 1 8
„ Carriage of Plants, £2 2s.; Sweeping Chimneys, 9s.; Laths, £1 3s. 9d.	3 14 9
„ Box of Compound, 3s.; Brushes, Soap, &c., 10s. 7d.; Oil, 10½d.; Indian Corn, 15s. 9½d.....	1 10 3
„ Rat Poison, 1s.; Postages, 8s. 8d.; Gas Tar, 2s. 4d.; Files, &c., 6s.; Grass Seeds, 2s. 6d.	1 0 6
„ Pencils, 1s.; Repairing Tools, 3s.; Travelling Ex- penses, 2s. 6d.; Twine, 6s. 3d.; Car Hire, 1s. 6d.	0 14 3

1568 10 1

Amount carried forward£3606 14 0

	£	s.	d.
To Amount brought forward	2281	15	5

Amount carried forward	£2281	15	5
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	£	s.	d.
By Amount brought forward	3606	14	6

DERBY MUSEUM.

SALARIES, WAGES, &c.:-

By J. T. Moore, Keeper, Salary 12 months (£180 per annum)	£172	10	0
„ F. Kirby, Assistant, ditto	80	0	0
„ Wages to Assistants, Charwomen, Stuffers, &c.....	433	19	9
„ Uniform to Assistants.....	18	4	0

STOCK AND FITTINGS:-

By Specimens Purchased, £144 16s. 6d.; Stuffed and Set-up, £161 4s. 9d.....	306	1	3
„ Glass-case, Trays, &c., £97 4s. 9d.; Ironwork, &c., £15 9s. 5d.....	112	14	2
„ Re-gilding Picture Frames, &c., £25 8s. 6d.; Glass, Shades, Bottles, &c., £34 0s. 2d.....	59	8	8
„ Thermometer, 18s.; Tools, £3 2s. 6d.; Stencil, 15s.; Earthenware, 13s. 4d.....	5	8	10
„ Hose, £6 2s. 0d.; Timber, £18 11s. 10d.; Cork, 12s.	25	5	10
„ Tanks, Zinc, &c., £16 5s. 7d.; Buckets, Brushes, &c., £4 15s. 9d.; Lamps, 10s.....	21	11	4

CURRENT EXPENSES:-

By Insurance, £59 1s. 9d; Methylated Spirit, £9 2s. 6d.	68	4	3
„ Coals, £28 2s. 6d.; Coke, £12 14s. 5d; Gas, £18 0s. 2d.	58	17	1
„ Stationery, £14 16s. 5d.; Eyes for Specimens, £4 1s. 2d.	18	17	7
„ Plumbing, Glazing, &c., £8 1s. 9d.; Mats, £9 18s. 4d; Flannel, £1 14s. 4d.....	19	14	5
„ Paints, Brushes, Wadding, Tow, Repairs, &c., £5 6s. 7d.; Postages, £2 15s. 9d.....	8	2	4
„ Arseniated Soap, &c., £5 4s. 7d.; French Polishing, £4 19s. 0d.....	10	3	7
„ Collecting Fossils, &c., and Travelling Expenses.....	21	19	4
„ Carriage, Cartage, and Portorage; Removing Specimens, Statuary, &c.....	46	1	2
„ Photographic Chemicals, £6 15s. 11d.; Cleaning Models, Statuary, &c., £20 7s. 2d.....	27	3	1
	1514	6	8
„ Paid for Fittings for the Museum	1695	9	10

3209 16 6

Amount carried forward..... £6816 11 0

	£	s.	d.
Amount brought forward.....	2231	15	5

Amount carried forward£2231 15 5

	£	s.	d.
By Amount brought forward.....	6816	11	0

REFERENCE LIBRARY.

SALARIES, WAGES, &c.:-

By J. Stuart Dalton, Chief Librarian, Salary 12 months..	£180	0	0
„ George Hudson, Sub-Librarian, ditto (£100 per annum)	95	0	0
„ Wages to Assistants, Porters, and Boys.....	254	17	8
„ Uniform Clothing, £8 2s. 3d.; Cleaning the Rooms, £9 4s. 0d.....	102	6	3

CURRENT EXPENSES:-

By One Year's Interest on Loan of £500, at 4½ per cent., £21 5s. 0d.; One Year's Interest on Loan of £315, at 4 per cent., £12 12s. 0d.; One Year's Interest on Loan of £5,000, at 4¾ per cent., £237 10s. 0d..	271	7	0
„ Insurance, £59 1s. 10d.; Coals and Coke, £45 12s. 8d.; Gas, £145 18s. 8d.....	250	13	2
„ Rents and Repairs, &c., Houses in Duke Street....	78	11	0
„ Gratuities: Workmen, £20; Librarian, £21; Porter, £5	46	0	0
„ Assistant, Writing Catalogues, £27; Removing Books, &c., £20 1s. 0d.....	47	1	0
„ Printing, £51 2s. 0d.; Stationery and Advertising, £22 0s. 8d.....	73	2	8
„ Repairs, Brushes, Forwarding Patents, &c., &c.....	6	8	9
„ Carriage of Books, &c., £11 1s. 6d.; Sundry Miscel- laneous Expenses, £8 19s. 6d.....	20	1	0

FITTING UP LIBRARY, &c.:-

By Kamptulicon, £45 18s. 3d.; Clock, £12; Flag, £7 1s.	64	19	3
„ Bookcase, £18; Hygrometers, £5 5s.; Mats, £5 17s. 2d.	29	2	2
„ Picture Frames, Re-gilding, &c., £80 19s. 6d.; Joiners' Work, £8 12s. 7d.....	169	12	1
„ Papering Board Room, &c., &c.....	24	9	6
	1718	11	6
„ Bookcases, Shelving, Gallery Staircase, &c. £908 18 0			
„ Desks, Tables, Forms, &c., Reading Rooms 405 10 6			
„ Chairs, Tables, Stand, &c., £191 11s. 0d.;			
Carpets, Curtains, &c.,....£57 3s. 6d.	248	14	6
	1563	8	0
	3276	14	6

Deduct Received in aid of Rate, viz.:-

Discounts, &c., £3 0s. 9d.; on account of Fixtures, £1; Printing, £1.....	5	0	9
	3271	13	9

BOOK ACCOUNT:-

By 1,725 Volumes of Books Purchased....	£958	6	0
„ 54 Volumes (Shipley Donation of £1,000)	303	10	3
„ Binding, Lettering, and Repairing.....	196	3	2
	1457	19	5
	4729	13	2

Amount carried forward£11546 4 2

	£	s.	d.
To Amount brought forward	2231	15	5
„ Balance Due Messrs. A. Heywood, Sons, and Co.	£10701	12	8
Less in the hands of the Chief Librarian	£15	0	0
„ in the hands of the Superintendent of the Lending Librarian.....	5	0	0
„ in the hands of the Curator of the Botanic Gardens.....	1	18	7
		<u>21</u>	<u>18 7</u>
		10679	14 1

£12911 9 6

17th October, 1861.

Examined and found correct,

P. S. RHIND, AUDITOR.

	£	s.	d.
By Amount brought forward.....	11546	4	2

LENDING LIBRARIES.

By W. R. Roulston, Superintendent, Salary 12 months....	135	0	0
„ Peter Cowell, Assistant, £70; J. Rigby, North Library, £85, ditto.....	155	0	0
„ Printing Catalogues, &c., £78 9s. 3d.; Taxes, £15 13s. 2d.	94	2	5
„ Gas, £35 17s. 6d.; Coals, £22 10s.; Rent, £29 17s....	88	4	6
„ Joiners' Work, £19 12s. 5d.; Painting, &c., £14; Repairs, £21 13s. 2d.....	55	5	7
„ Flags for Opening Day, £4 15s. 8d.; Water, £2 14s.; Stationery, £11 8s. 2d.....	18	17	10
„ Coal Boxes, 13s.; Brushes, £2 11s. 1d.....	3	4	1
	<hr/>		
	549	14	5
„ Boys' Wages, £123 13s. 0d.; Cleaning Libraries, £36 12s. 4d.....	160	5	4
„ Floor Cloths, Sawdust, Blacklead, &c.....	1	19	11
„ Ink, Gum, Twine, Candles, &c., £1 0s. 8d.; Carriage of Books, £2 4s. 1d.; Postages, £3 19s. 3d.....	7	4	0
„ Sweeping Chimneys, &c., 12s. 6d.; Soap, Washing Blinds, &c., 19s. 7d.....	1	12	1
„ Travelling Expenses, £2 1s. 6d.; Bucket, 3s.; White- washing, 5s.; Rings, 2s. 6d.....	2	12	0
„ Assistant, Transcribing Catalogue, £8 16s. 0d.; Repairs, £3 17s. 11d.....	12	13	11
	<hr/>		
	736	1	8

BOOK ACCOUNT:—

By 4,200 Volumes Purchased.....	£584	19	9
„ Binding, Lettering, and Repairing.....	269	3	9
„ Tickets, Voucher Cases, &c.....	43	7	3
	<hr/>		
	897	10	9
	<hr/>		
	1633	12	5

Deduct Received in aid of Rate, viz:—

Fines Received at the North Library for Detention of Books, &c.....	£66	0	9
Ditto, South Library.....	81	7	0
Catalogues Sold, £80 10s. 8d.: Waste Paper, £1 10s. 0d.....	82	6	8
Received for Tickets & their Renewals	38	12	8
	<hr/>		
	268	7	1

1365	5	4
<hr/>		
£12911	9	6

PRESENTED

15 JUL 1898







TENTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM,
AND
GALLERY OF ARTS,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,
NOVEMBER, 1862.



LIVERPOOL:
PRINTED BY D. MARPLES, LORD STREET.

THE
NATIONAL BUREAU OF STANDARDS

WASHINGTON, D. C.

U. S. GOVERNMENT PRINTING OFFICE

1917

NO. 1000

1917

U. S. GOVERNMENT PRINTING OFFICE

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LIVERPOOL:
PRINTED BY D. MARPLES, LORD STREET.

OFFICERS AND COMMITTEE

FOR THE YEAR 1862.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

THOMAS AVISON, F.S.A., DEPUTY-CHAIRMAN.

R. C. GARDNER, CHAIRMAN OF THE SUB-COMMITTEE OF THE GARDENS,

WILLIAM BARRY,

WILLIAM BENNETT,

CHARLES T. BOWRING,

WILLIAM EARLE,

EDWARD ESTILL,

T. B. JOB,

JOSEPH KITCHEN,

CHARLES MOZLEY,

DAVID RAE,

JAMES STEAINS,

JOHN BUCK SPENCE,

LIEUT.-COL. WILLIAM BROWN,

REV. H. H. HIGGINS.

Chief Librarian.

JOHN STUART DALTON.

Sub-Librarian,

GEORGE HUDSON.

Superintendent of the Lending Libraries.

WILLIAM R. ROULSTON.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

IN presenting to the Council their tenth Annual Report, the Committee have pleasure in stating that every department under their management is in efficient working order. Owing to changes arising out of the extension of the Museum and Library, the past year is the first in which every part of the Institution has been able to meet the growing requirements of the public. The extent of benefit, physical, intellectual, and moral, diffused through the community by means of the Gardens, Park, Central and Lending Libraries, and Museum, it would be difficult to over-estimate.

It is satisfactory to find that these means of recreation and improvement are duly estimated by the inhabitants, and that a growing interest is felt in their success.

REFERENCE LIBRARY.

During the past year 456,372 volumes have been issued and returned, being an increase of 59,816 compared with the previous twelve months. In connection with this large general issue, it may be stated that upwards of 500 volumes have frequently been given out in less than two hours, the average being 1,612 volumes per day.

The Reading-room still continues to be crowded, particularly in the evening, when from 400 to 500 readers are frequently present at one time. It is gratifying to add that no particular complaint has had to be made of their general demeanour, or of any injury to the books issued. A large and increasing demand has been observed for works on subjects connected with America, International Law, the Modern Languages, Musical Composition, Decorative Art, and the various branches of the Building Trades, while works on Architecture, Shipbuilding, Engineering, and the Mechanical Arts, have

been much more inquired for than in any previous year since the opening of the Library. Increased interest has also been noticed on subjects connected with the Physical Sciences, especially among the younger readers, many of whom are students belonging to the School of Science.

The following is a Classified List of the Books issued during the last twelve months, exclusive of Magazines and other Periodicals:—

Classification.	Volumes.	Daily Average, about
Theology, Morals, and Metaphysics	15066	53
Natural Philosophy, Astronomy, Chemistry, &c.	15033	53
Natural History, Botany, Mineralogy, &c.	7209	25
Science and the Arts, Architecture, Painting, Music, &c.	26819	95
History and Biography	40029	141
Topography and Antiquities.....	7047	25
Geography, Voyages, and Travels	27632	98
Miscellaneous Literature	117820	416
Jurisprudence, Law, and Politics.....	3756	13
Commerce, Political Economy, and Social Statistics....	2787	10
Education, Logic, Language, &c.	10358	36
Poetry and Dramatic Literature	22534	80
Works of Imagination	150234	531
Classical Literature	2799	10
Heraldry, Encyclopædias, and Works of Reference	7219	26
Total.....	456372	1612

During the year 1,541 volumes have been added to the Library, viz., 1,282 by purchase, 84 by donation, 38 Parliamentary Papers, and 137 from the Commissioners of Patents, making the present contents of the Library 36,522 volumes, placed under the following heads:—

Classification.	1861.	Increase.	1862.
* Theology, Morals, and Metaphysics.....	2392	149	2541
Natural Philosophy, Astronomy, &c.	938	35	973
Natural History, Botany, Mineralogy, &c. ..	1706	81	1787
Science and the Arts, Architecture, &c.	3237	259	3496
History and Biography	5419	225	5644
Topography and Antiquities.....	1476	102	1578
Geography, with Voyages and Travels	2399	74	2473
Miscellaneous Literature	5887	222	6109
Jurisprudence, Law, and Politics.....	3111	118	3229
Commerce, Social Statistics, &c.	292	15	307
Education, Logic, Language, &c.	426	43	469
Poetry and Dramatic Literature	1561	48	1609
Works of Imagination	3926	120	4046
Classical Literature	168	2	170
Heraldry, Encyclopædias, and Works of Reference.....	1043	48	1091
	33981	1541	36522

It has been the intention of the Committee to fit up one of the upper rooms of the Library for the suitable display of the Biblical Collection, consisting of the donation from the British and Foreign Bible Society of the Translations of Holy Scripture into 133 Languages; various versions and rare editions which have been obtained by donation and purchase; commentaries and illustrations of the Bible, with specimens illustrative of the natural history, antiquities, and customs of the countries of the East.

This design has been postponed from want of funds, but will be resumed whenever it may be found practicable.

MUSEUM.

Owing to the causes mentioned in the last Report, viz., the dampness of the walls, and the time required for fitting-up the cases, no portion of the Museum was in a condition for the admission of Visitors until the 18th of October, 1861. On that day the Central Hall and the rooms on the upper floor of the west wing were thrown open to the public. The rooms on the lower floor were opened on the 14th of August last.

The attendance of Visitors has been very large. The total number from the 18th of October to the 1st of September (a period of 45 weeks) amounts to 321,714, giving a daily average of 1,739. As compared with the last similar period at the Old Museum, the numbers are as follows:—

	Total.	Daily Average.
New Museum, Oct. 18, 1861, to Sept. 1, 1862	321714	1739
Old Museum, Oct. 18, 1859, to Sept. 1, 1860	98597	533
Increase	<u>223117</u>	<u>1206</u>

In round numbers, the Visitors to the New Museum have exceeded those to the Old Museum by 1,200 per day, and by a total of nearly a quarter of a million.

The donations to the Museum have been both numerous and valuable.

To R. B. Walker, Esq., the public are indebted for a magnificent Skeleton of a Gorilla, larger probably than any specimen previously brought to Europe. The thigh bone of this animal measures $16\frac{3}{8}$ inches in length, while the largest previously recorded measured only $14\frac{1}{2}$ inches.

To Henry Duckworth, Esq., the public are also indebted for the Skin and Skeleton of another specimen of Gorilla. Though smaller than the preceding, this specimen is exceedingly valuable, being in a very perfect condition. This skin has been carefully stuffed, and will shortly be ready for exhibition.

The two skeletons are in hand for mounting, and will be exhibited as early as possible.

A very fine stuffed specimen of the American Bison has been presented by the Proprietors of *The Field* newspaper. This animal was shot by the Hon. G. F. Berkeley, who published, in *The Field* of May 12, 1860, a graphic account of its pursuit and capture.

The Skull, and portions of the Skeleton, of a smaller specimen of Gorilla; presented by R. B. Walker, Esq.

The Body of a small Ant-eater, or Tamandua, preserved in spirit; by W. Smallwood, Esq.

A White American Squirrel; by Mrs. Hyde.

Four Monkeys; by Mr. Hulse.

The Skull of a Porpoise, and the Rostrum of a Saw-fish; by Messrs. Hatton and Cookson.

The Bones of a Dromedary; by Mr. Gass.

A Bat, from South Africa; by Mr. Martin, ship "Clarendon."

Thirty Birds, &c., in spirit, from West Africa; by Messrs. Maxwell and Co.

Three Eagles, from India; by Captain Sawyer.

A Chatterer (*Phœnicercus carnifex*); by Mr. Alderman Parker.

A Guillemot; by Mr. Alderman Gardner.

A Night Heron, &c.; by Mr. Browne (s. s. "Agia Sofia").

Two Eggs of the Eider Duck; by Mr. S. Parry.

Two Lizards, from Egypt; by C. MacIver, Esq.

A Bottle of Snakes, from Para, by Mrs. Houghton.

Eight Bottles of Reptiles, &c., from Old Calabar; by Mr. J. S. Tyerman.

A Dolphin; by Mr. Berry, ship "Richard Cobden."

A Red Band-fish, caught in the Mersey, and a *Nephtys*; by Mr. R. M. Corles.

A Wolf-fish; by Mr. Isaacs.

A Vendace; by Mr. J. R. Wallace.

Six Graining; by Mr. James Reston.

A Gwyniad; by Mr. E. T. Higgins.

Six Grayling; by Mr. John Shaw, Drumlanrig.

The Rostrum of a Saw-fish; by Captain Farley.

A Spiny Lobster, 'Pen' of a Squid, a Blenny, &c.; by T. Avison, Esq.

Two South African Cray-fish; by Mr. Beazley.

A Walking-stick Insect; by Mr. A. Smith.

A Collection of Insects, chiefly local Diptera; by Rev. H. H. Higgins.

A *Rossia macrosoma*, from the Dee; by Mr. A. Walker.

Two Hundred and Ninety-three Shells, from California; by Mr.

Hibbert.

An Orange Cowry, and 21 other Shells; by Mr. S. Smith.

Forty Cowries, and a Sponge; by Mr. Newby.

A large Star-fish, from Norway; by Mr. R. MacAndrew.

A Coral (*Alveopora spongiosa*); by Mr. F. Archer.

An Organ Coral; by Mr. John Shaw.

Three Sea-fans, from South Africa; by Mrs. Barnett.

A large Trilobite (*Paradoxides Harlani*), from the Braintree Limestone of Boston; by Mr. J. H. Greene, Boston, formerly of Liverpool. This is stated to be the largest specimen known. Casts have been taken for the purpose of exchange.

A fine specimen of 'Cone-in-Cone' Coal; by Mr. P. Martin.

Four Fossil Plants, from Portsmouth, near Burnley; by Mr. T. Chaffer:

Four Fossil Coal Plants, a Fossil Fern, &c.; by Mr. J. Keates.

Four Slabs of Footprints of *Cheirotherium*, from Storeton, by Mr. Gee.

Five samples of Gold-bearing Quartz, from Dolgelly; by Mr. C. D. Butt.

Three Minerals, from Donegal; by Mr. Duncan.

Specimens of Ruby; by Mr. Pierrepoint.

A Collection of Ores and Minerals; by Mr. T. R. Warren.

Three Minerals, from India; by Mr. Graham.

Specimens of *Verd Antique*, *Lapis lazuli*, &c.; by Mr. J. Harrison.

Specimens of Native Copper and Silver, from Lake Superior; by Mr. T. Woodville.

A reduced Model of *Schistopleurum typus* (an extinct species of Armadillo); by H. Duckworth, Esq.

A Cast of the Skull, &c., of *Mosasaurus* (an extinct gigantic Marine Lizard), from the original in the Paris Museum; by H. Duckworth, Esq.

A large Footprint of *Brontozoum giganteum*, from Turner's Falls, Massachusetts; 34 Geological Specimens; a Coral; specimens of Fibrous Gypsum; 21 Minerals; three Ditto; specimens of Corals and Minerals; several *Limuli*, or Horse-shoe Crabs, living and dead, and three living Tortoises, chiefly from North America; by Captain Anderson (R. M. s. s. "China").

A specimen of the Paper Nautilus, from the North Atlantic; specimens of *Ostrea Virginia*, of Carbonized Wood, &c., from France; model of a Sitka Canoe, and of a Chinese Joss cut in Rock Crystal, with other specimens; by Captain Mortimer.

Three Indian Fish; specimens of *Janthina*, in spirit; several Star-fish and Corals, from the West Coast of South America; by Mr. R. Keen.

A rare species of Fish (*Diodon*); a Northern Stone-crab; a Dolphin, and two Tinamoo Eggs; two rare Australian Snakes, and a Stone Bomb-shell from India; by Mr. J. O. W. Fabert.

A Chank-shell, and Armlets made from the same by the Hindoos; specimens of Trepang, from Borneo; and specimens illustrating the production and uses of Lac; by Mr. F. Moore.

Sundry Coins; by Colonel Brown.

A large Plate-glass Aquarium; by Miss Henderson.

A Working Model of Copple's Patent Self-disengaging Apparatus, for the prevention of accidents through overwinding from Pits and Mines; by Messrs. J. and E. Copple.

A Model of the Liverpool Pilot Schooner No. 2; by Mr. William Hudson.

A Model of a Jangnadar, or Pernambuco Surf-boat; by Mr. W. B. Hilton.

Minor donations have been received from Messrs. L. Heyworth, J. Jones, Mark Howarth, A. Cuming, P. Marrat, Warren Spence, Dr. Collingwood, J. Dempster, J. C. Owen Herd, J. H. Weightman, G. Thomas, Hanna, Trout, W. Tomlinson, J. H. Greene, W. H. Weightman, J. Morris, Cope, O. Bolton, jun., and Lawson; and from Mrs. Rogers, Mrs. Mackay, and Mrs. Millward.

PURCHASES.

The most important purchase has been that of the skeleton of an adult Giraffe. This specimen possesses an additional interest to that of other skeletons of this remarkable animal, inasmuch as it is the subject of special remark in the question lately revived as to whether the Giraffe has two horns or three, *vide* the *Intellectual Observer* for August, and the *Zoologist* for October.

Eleven specimens of Mammalia ; nine Birds, including a pair of the Albert Lyre-bird ; 20 Reptiles ; 25 fish from New Hebrides ; 270 selected Shells, including a Shell and Animal in spirit of the Pearly Nautilus ; 23 Star-fish and Echini ; 13 species of Entozoa ; 23 Corals, &c ; two cases of Insects ; a few Crustacea and Fossils, and six Wax Models of Sea Anemones and Nudibranchs by Mr. F. Chapman, have been added to the collection during the year by purchase.

In addition to the above, a large series of Marine Specimens from the River Mersey and the neighbouring sea has been obtained from time to time by dredging and shore collecting, and by purchase. The duplicates, which are numerous, are reserved for exchange with other Museums and Collectors, British and Foreign, for the products chiefly of their own immediate neighbourhood. By judicious management, it is hoped, in course of time, valuable additions may be made to our collections at a slight cost, and with advantage to all parties concerned.

EXCHANGES.

Exchanges, chiefly of the character pointed out above, have been already made with Professor Agassiz for his extensive Museum at Cambridge, Massachusetts ; with Professor Hall, State Geologist of New York ; with R. P. Whitfield, Esq., of Albany ; with Professor Wyville Thomson, Queen's College, Belfast ; with Mr. H. Woodward, Geological Department, British Museum ; with Professor Rolleston, Oxford University Museum ; with the Leeds Museum ; with Mr. Gosse, and others.

Exchanges are also proposed, or in progress, with Messrs. Booth and Gundlach, of Cuba ; Mr. William Stimpson, Cambridge, Massachusetts ; Mr. Dyer, Ohio ; and with the Museums of the University of Melbourne, and of the Hartley Institution, Southampton.

One hundred enlarged Models of Foraminifera have been received from the Proprietors of the Royal Institution, in exchange for a Red Bird of Paradise.

A Collection of Fish, &c., has been received from Madeira, through the kind offices of J. Yate Johnson, Esq., by whom they were purchased for the Museum from the fishermen of the island.

A similar, but smaller, collection of Fish has also been procured and forwarded from Spain by the Rev. William Banister, late Secretary of the Liverpool Naturalists' Field Club.

During the past twelve months, skeletons of a Rhinoceros, of a Lion, a Brahmin Bull, and a Pelican, have been set up, as well as a very large and interesting skeleton of the fossil gigantic Elk of Ireland. Forty Fish have been stuffed ; and the whole of the Water-birds, and of the Deer and Antelopes, have been thoroughly cleaned and renovated.

The Collection of Shells has been largely increased by specimens of value and interest, deposited by the Rev. H. H. Higgins, by whom considerable progress has been made in the naming and arranging this portion of the Museum. A series of Water-colour Drawings, executed by Mr. Kirby, Assistant-curator, has been added, to show the animals of the shells, and their anatomy.

It is gratifying to be able to state that the Liverpool Derby Museum has taken a high position in the scientific world, owing, in a great measure, to the indefatigable exertions of the Curator, Mr. T. J. Moore, who has placed himself in correspondence with similar institutions in all parts of the world. The exchanges and donations resulting from this friendly intercourse have already greatly enriched the collection, and promise to be highly advantageous to the cause of Natural Science generally.

LENDING LIBRARIES.

It was stated in the last Report that, with the present accommodation and staff, the Libraries had reached the limit beyond which it was impossible to extend. The Committee found themselves under the necessity of declining to increase the readers' tickets beyond 9,000. It is obvious, therefore, that this department can be no longer progressive.

The issues are nearly the same as the previous year, being—

	Vols.
North District Library	249799
South District Library	237992
Total Issues.....	487791

During the past year a thorough examination of the state of the books in the South Branch has taken place, and 1,604 volumes were found to be unfit for further service; 1,254 of these have been replaced, at a cost of £127 18s. 8d., and the remaining 350 volumes withdrawn from the Library shelves.

The following additions have been made to the collection:—

	Vols.
By Purchase	1983
By Donation	39
	<u>2022</u>
Deduct.....	350 worn-out books withdrawn.

Leaving the number added during the year 1672 volumes.

Special thanks are due to Mr. James Gordon, publisher, of Edinburgh, for a valuable donation of two sets of his well-known series of Educational Works. These books are likely to prove exceedingly useful to persons desirous of commencing and carrying on a consecutive course of self-instruction, for which they are admirably adapted.

At the present time, the books and borrowers are thus distributed:—

	Vols.	Borrowers.
North District.....	15390	4294
South District.....	15981	4280
Total in both	31371	8574

A carefully-prepared Catalogue of the Books in the South Library is at present passing through the press, and will shortly be ready for the use of the readers.

It is gratifying to be able to state that, notwithstanding the large number of books issued, and the variety of hands into which they fall, no wilful damage has been noticed this year, and only one small volume, of the value of 2s. 6d., irrecoverably lost. Seventy-seven books have been injured, or lost while in the possession of borrowers, and replaced by them or their sureties.

The sum of £138 7s. 0d. has been received in fines for the undue detention of books, £60 7s. 9d. from the sale of Catalogues, and for tickets of membership £36 12s. 0d., making the total receipts £235 16s. 9d., which is applied towards the expenses.

In the past year each reader has borrowed, on an average, 56 volumes, at a cost, per head, of 3s. 2d.

Taking the average for the last three years, the sum expended annually in the maintenance of these Lending Libraries amounts to £1,284 12s. 9d.

For this comparatively small outlay, nearly half a million of useful and entertaining books are annually circulated in the homes, and among the families, of about 9,000 individuals, almost entirely of the humbler classes.

BOTANIC GARDENS, AND WAVERTREE PARK.

The Committee feel pleasure in calling public attention to the present condition of the Botanic Gardens, which, it is believed, have never, since their establishment, been in so thorough a state of efficiency. In addition to the scientific arrangement, which is admirably adapted for botanical study, the new parterres and terraced gardens have this season presented one of the most brilliant displays of colour and taste which a profusion of flowers could produce for the

gratification of the public. To Mr. Tyerman, the Curator, much credit is due, for his assiduity and skill. During the year many valuable donations have been received, and advantageous exchanges made with other similar institutions.

The Park, during the summer months, has been crowded with visitors, especially in the evenings, and on Sunday afternoons. On Thursday evenings the band of the Orphan Boys' Asylum has played in the Park. The conduct of the crowds visiting the Park and Gardens has been, with very few exceptions, orderly and courteous, and presents every encouragement for increasing the opportunities of open-air recreation for the toiling multitudes.

CASH ACCOUNT.

By a decision of the Court of Queen's Bench, the sources of income applicable to the Institution have been considerably limited. The Council, during the past year, have appropriated the sum of £1,500 towards this deficiency, the exact amount of which cannot be ascertained until all the rates are collected. It is hoped that this will enable the Committee, with the strictest economy, to keep up unimpaired the efficiency of every department under their management.

Signed, on behalf of the Committee,

J. A. PICTON, Chairman.

STATEMENT OF THE ACCOUNTS OF THE BOTANIC GARDENS,
From September 1st, 1861,

		£	s.	d.
To ARREARS OF RATE due from the Borough of Liverpool				
on the 31st August, 1861	£6,673		18	6
„ RATE levied on the Borough of Liverpool for the Year				
1862	7,105		10	1
		13,779	8	7
„ Sale of Premises, Duke Street and Slater Street		3,462	9	4
„ Grant in Aid, voted by Council, 4th June, 1862		1,500	0	0

Amount carried forward £18,741 17 11

DERBY MUSEUM, AND FREE LIBRARIES,
to August 31st, 1862.

16

	£	s.	d.
By Balance of last Year's Account (page 22)	10,670	14	1
„ BOTANIC GARDENS, viz. :—			
Salaries and Wages	£753	17	10
Gravel and Soil	13	15	0
Trees, Plants, Seeds, &c.	106	3	9
Tools and Implements	11	11	4
Building and Repairs	26	10	8
Furniture, Fixtures, and Fittings	34	12	2
Lighting, Firing, and Cleaning	76	6	4
Printing, Stationery, and Advertisements	12	19	6
Rates, Taxes, and Insurance	22	5	0
Travelling Expenses	26	6	0
Miscellaneous Expenses	27	8	3
Books	8	16	0
Redemption Fund, 1/10th of £3,800, for the Purchase of the Gardens..	£126	13	4
Interest on Balance, £2,913 6s. 8d., at 4 per cent.	116	10	8
	243	4	0
		1,363	15 10
By DERBY MUSEUM, viz. :—			
Salaries, Wages, and Clothing	1,112	17	11
Specimens Purchased	397	13	8
Stuffing Specimens, &c.	51	16	2
Building and Repairs	3	6	6
Furniture, Fixtures, and Fittings	1,489	7	7
Lighting, Firing, and Cleaning	121	2	10
Printing, Stationery, and Advertisements	36	7	7
Insurance	54	0	9
Travelling Expenses	11	6	0
Miscellaneous Expenses	14	7	3
		3,292	6 3
By REFERENCE LIBRARY, viz. :—			
Salaries, Wages, and Clothing	£635	3	0
Books and Binding	796	6	6
Building and Repairs	22	10	10
Furniture, Fixtures, and Fittings	253	13	6
Lighting, Firing, and Cleaning	338	17	0
Printing, Stationery, and Advertisements	77	12	4
Insurance	46	15	0
Miscellaneous Expenses	3	18	3
Interest on Loans	275	10	8
		2,450	7 1
By Principal Money of Loans repaid		5,657	10 0
Amount carried forward	£23,413	13	3

STATEMENT OF THE ACCOUNTS OF THE BOTANIC GARDENS,
From September 1st, 1861,

	£	s.	d.
To Amount brought forward	18,741	17	11
„ Balance carried down.....	6,061	17	2

£24,803 15 1

	£	s.	.
To Balance due to A. Heywood, Sons & Co.....	17,842	1	2

£17,842 1 2

October 13th, 1862.

Examined and found correct.

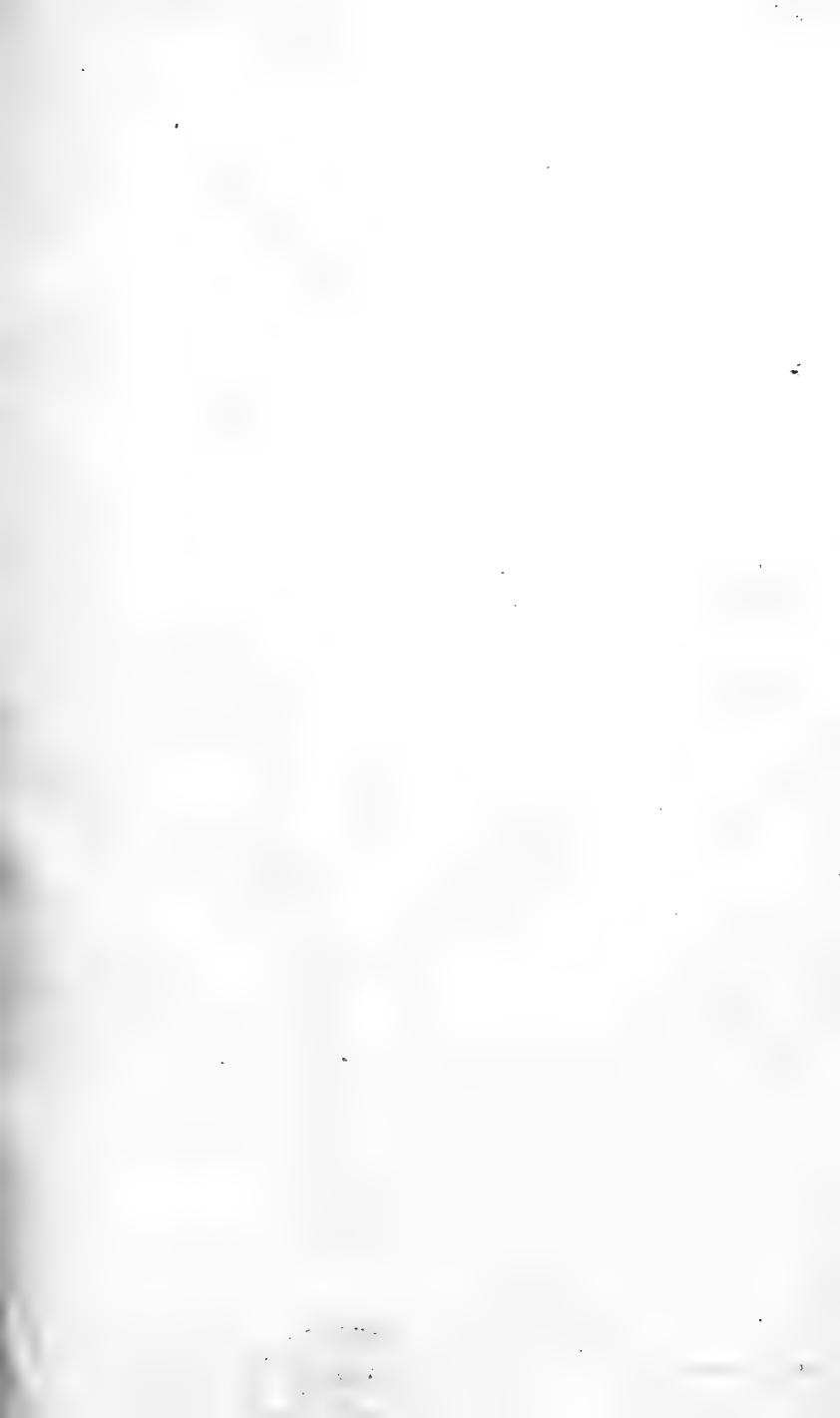
P. S. RHIND, AUDITOR.

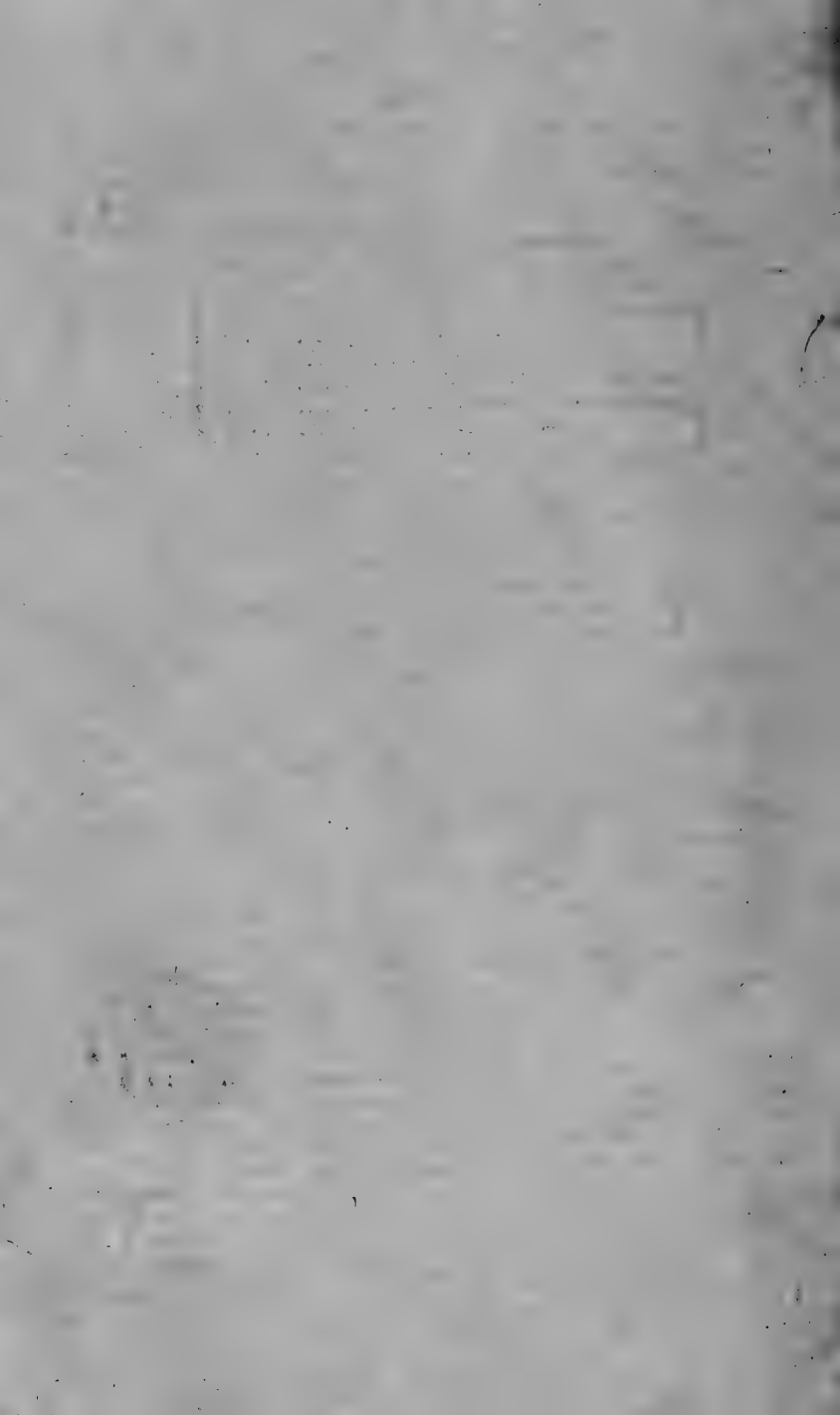
A STATEMENT OF THE MORTGAGE DEBT.

	£	s.	d.
Balance of Loan of £3,800, at 4 per cent., repayable in Thirty Years, by equal Annual Instalments	2,786	13	4
Loan at 4 per cent., repayable half 5th April, 1807, half 2nd September, 1868.....	157	10	0
	<hr/>		
	£2,944	3	4

15 JUL. 1898







ELEVENTH ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM,
AND
GALLERY OF ARTS,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL, NOVEMBER, 1863.



LIVERPOOL:

PRINTED BY GEORGE M'CORQUODALE AND CO., CASTLE STREET.

—
1863.



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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

RESEARCH REPORT



UNIVERSITY OF CHICAGO LIBRARY

OFFICERS AND COMMITTEE

FOR THE YEAR 1863.

Committee.

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THOMAS AVISON, F.S.A., DEPUTY-CHAIRMAN.

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WILLIAM BENNETT,

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LIEUT.-COL. SIR WILLIAM BROWN, BART.

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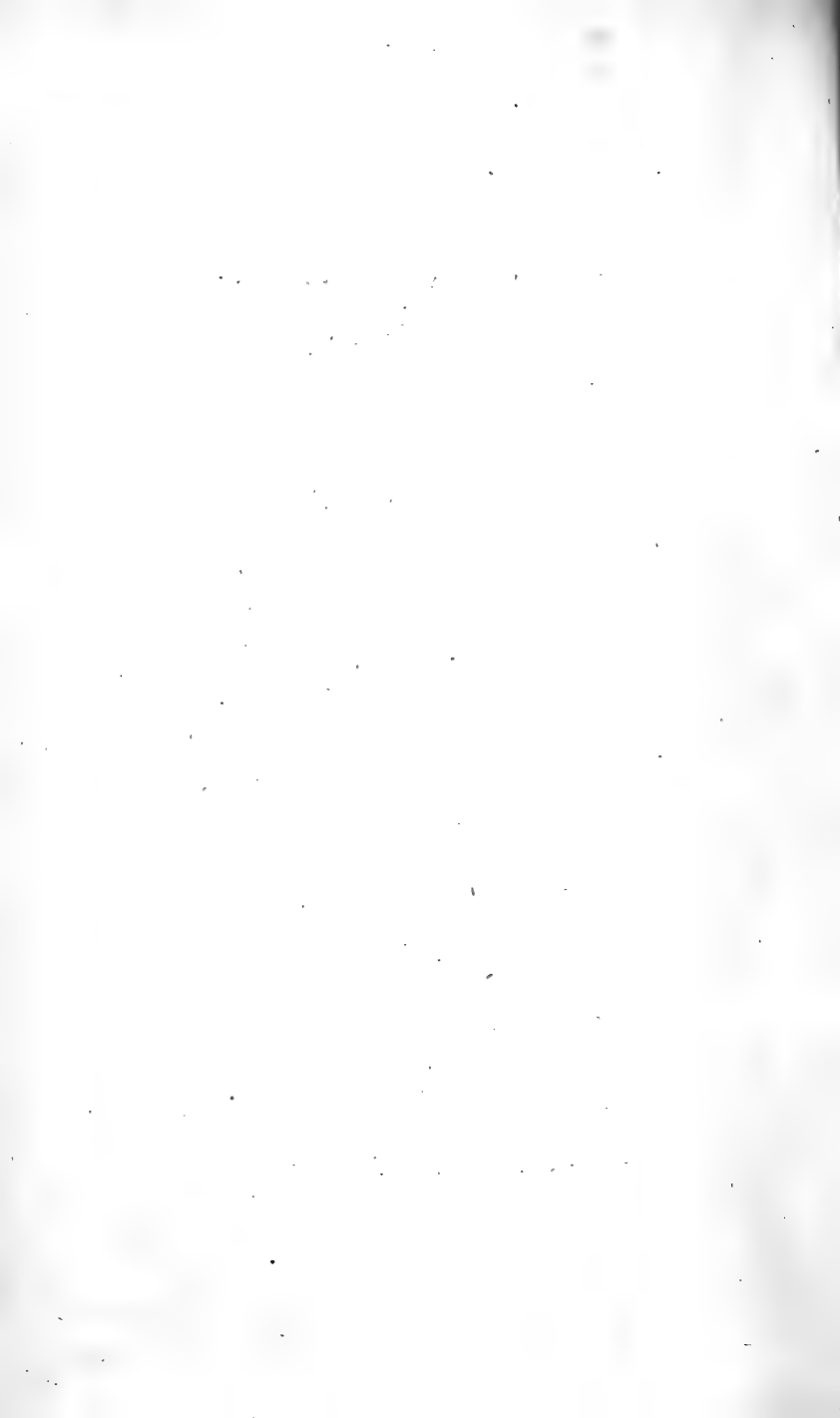
GEORGE HUDSON.

Superintendent of the Lending Libraries.

WILLIAM R. ROULSTON.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

Since the last Annual Report of the Committee the management of the Gardens and Park has, by a vote of the Council, been transferred to the Finance Committee. The Committee of the Library and Museum are gratified in being able to state that when their supervision of the Gardens ceased, they were in a most efficient and satisfactory condition; and it is a source of much pleasure to them to know that they will remain under able superintendence. The Committee, in presenting their Eleventh Annual Report of the Library and Museum, have pleasure in stating that the interest in the Institutions still continues unabated.

REFERENCE LIBRARY.

Since the commencement of the Library more than two millions four hundred thousand volumes of books have been issued and returned, with the exception of fifty-nine; twenty-one of these have been successfully traced and recovered, and nine of the purloiners prosecuted to conviction; the cost of replacing the remaining thirty-eight volumes has not exceeded £4, which sum represents the total loss of books from the opening of the Library to the present time. The average issue is now upwards of one thousand six hundred volumes per day, which is more than four times the number issued in the old building in Duke-street.

During the past year 472,010 volumes have been issued and returned, which is an increase of 15,638 compared with the previous twelve months.

The following is a Classified List of the Books issued:—

CLASSIFICATION	Volumes	Daily Average about
Theology, Morals, and Metaphysics	15,706	55
Natural Philosophy, Astronomy, Chemistry, &c.	15,103	53
Natural History, Botany, Mineralogy, &c.....	6,866	24
Science and the Arts, Architecture, Painting, Music, &c....	25,426	89
History and Biography.....	41,188	145
Topography and Antiquities.....	6,706	24
Geography, Voyages, and Travels	26,566	93
Miscellaneous Literature	118,460	416
Jurisprudence, Law, and Politics	3,760	13
Commerce, Political Economy, and Social Statistics	2,993	10
Education, Logic, Language, &c.....	10,216	36
Poetry and Dramatic Literature	21,316	75
Works of Imagination	167,696	588
Classical Literature	2,878	10
Heraldry, Encyclopædias, and Works of Reference.....	7,130	25
	<u>472,010</u>	<u>1,656</u>

During the last year 1651 volumes have been added to the Library, viz., 1422 by purchase, 100 by donation, and 129 by the Commissioners of Patents, making the present contents of the Library 37,173 volumes, placed under the following heads:—

CLASSIFICATION	1862	Additions	Total 1863
Theology, Morals, and Metaphysics	2,541	221	2,762
Natural Philosophy, Astronomy, &c.....	973	27	1,000
Natural History, Botany, Mineralogy, &c.	1,787	88	1,875
Science and the Arts, Architecture, &c.....	3,496	257	3,753
History and Biography.....	5,644	247	5,891
Topography and Antiquities	1,578	58	1,636
Geography, Voyages, and Travels.....	2,473	116	2,589
Miscellaneous Literature	6,109	274	6,383
Jurisprudence, Law, and Politics	3,229	96	3,325
Commerce and Social Statistics	307	15	322
Education, Logic, Language, &c.	469	24	493
Poetry and Dramatic Literature.....	1,609	41	1,650
Works of Imagination	4,046	127	4,173
Classical Literature	170	11	181
Heraldry, Encyclopædias, and Works of Reference	1,091	49	1,140
	<u>35,522</u>	<u>1,651</u>	<u>37,173</u>

THE MUSEUM.

The Museum still continues to attract the interest of the public. The number of visitors during the past year has been very great. The following is an accurate statement of the number of persons who have visited the Museum during the past year, viz. :—

Total.....	427,412
Daily Average.....	1,997

being an increase upon the previous year of more than 250 visitors per day.

The Donations during the past year have been very numerous, as the following List will testify. Many gifts of value and interest have been received from the Captains of vessels sailing from Liverpool, all of whom are continuing their efforts in the preservation of objects for the Museum. Several other Captains, whose names do not yet appear, are known to be collecting also, with the view of adding to the Collection.

DONATIONS.

- Marine Specimens, dredged in the Baltic, and presented by S. R. Graves, Esq.
- A Specimen of Pallas' Three-toed Sand Grouse, from Hoylake, by Mr. Thomas Littler.
- Casts of Diana and Flora, by Thomas Avison, Esq.
- Six Bird Skins, two Sharks, the Skin of a Porpoise, the Bones of a Porpoise, and a collection of nineteen species of Fish, &c., by Captain Berry.
- Skeleton and Baleen of Johnston's Hump-backed Whale, (*Megaptera longimana*) stranded at Speke, by Mr. Brock.
- Fine Skulls of a Gavial and large Crocodile, by J. Wienholt, Esq., Calcutta.
- Skeleton of a Hippopotamus, a Polar Bear, and a Lizard, by the Directors of the Liverpool Institute.
- Four carved stone Images, from Java, by Mrs. Ripley, Lancaster.
- Skull of a Grampus, by T. D. Anderson, Esq.
- A collection of Swedish and Irish Rocks, by Rev. S. Haughton, Dublin University.
- Equestrian Statue, in plaster, of Lady Godiva, by Frank Fuller, Esq.
- A collection of Photographic Views of Melbourne, by the Commissioners of Victoria to the International Exhibition.
- A collection of samples of Agricultural Produce, by the Russian Commissioners to the International Exhibition.
- A small collection of recent Shells, by Arthur Adams, Esq.
- A collection of Shells from Singapore, by Mr. H. Addenbrooke.
- Two Wampam Clams, several King Crabs, a Wasp's Nest, a Blind Fish from the Mammoth caves of Kentucky, a specimen of native Copper from Lake Superior, and several Bull Frogs, by Captain Anderson, s.s. "China."

- An interesting collection of Marine Specimens from the China Seas, and three Argonaut Shells, by Captain Baker, ship "Niphon."
- Four Fish, from the Mediterranean, by the Rev. W. Banister.
- Skull of a cross between the Lion and Tiger, by Mr. H. Barnes.
- Fifty Ova of Great Lake Trout, by Mr. A. D. Bartlett.
- Three species of North American Shells, by Rev. E. R. Beadle.
- Three red-legged Partridges and young, by Wyrley Birch, Esq.
- Samples of China Grass, by Mr. E. Bowen.
- Large specimen of Eschara, &c., by Dr. Bowerbank.
- An Eledone, from Bootle, by Miss Bright.
- A collection of Fish, &c., from Smyrna, by Captain Browne, s.s. "Agia Sofia."
- Specimens of Gold Quartz and Tin, by C. D. Butt, Esq.
- Two specimens of the Southern Chimæra (Fish), by Captain Clarke, ship "Llama."
- A Landrail, from New Brighton, by Mr. Clegg.
- Living specimens of *Lima hians*, *Adamsia*, *Amphioxus*, *Ebalia*, *Paguris*, &c., by Dr. Collingwood.
- Five Minerals, &c., by Mrs. James Cooper.
- An Eledone, from Seacombe, by Mr. R. M. Corless.
- A Chinese Umbrella, by Mr. Thomas Davies.
- Six *Sphæra Robertsi*, from New Zealand, by Mr. Davis.
- A Boomerang, a Snake, &c., by Captain Doherty.
- Eight Funeral Urns, from the Graves of Peruvian Indians, by Mr. L. S. Downie.
- Thirty-nine species of Fish, from Alexandria, &c., by Captain Dubbins, s.s. "Atlas."
- A Flying Gurnard, eight Birds, a Coral from Malta, and Zoophytes from Penzance, by H. Duckworth, Esq.
- An *Amphisbæna*, from Bahia, by Mr. Eck.
- A large Tench, from Cheshire, by Mr. Edmondson.
- A black-backed Jackall, by E. Estill, Esq.
- A live Snapping Turtle, the Tusk of a Walrus, three Termites, three Fish, Beetles, Spiders, &c., &c., by J. O. W. Fabert, Esq.
- An Iguana, (*Ctenosaura pectinata*) by Major Faulkner.
- Two specimens of Iron Pyrites, from South Wales, by Mr. John Fish.
- Model of a Chinese Joss-boat, Black Corals, Sponges, &c., by Captain G. Fletcher, ship "Tigris."
- A Model of a Sampan Boat, from Singapore, by Mrs. G. Fletcher.
- Two Burmese Images, by Captain Fletcher, ship "Arachne."
- Specimens of Minerals, &c., by Captain Fordyce.
- A Viper, from West Africa, by Mrs. Frankland.
- Specimens of the Teeth of the Walrus, Sperm Whale, and Hippopotamus, by Mr. A. Gabriel.
- A Chameleon, by Mr. A. Green.
- Specimens of Reptiles, &c., from Italy, and a small column of Basalt from the Giant's Causeway, by S. L. Gregson, Esq.
- Three Snakes from Central America, by J. P. Harris, Esq.
- Skins of the Australian Bittern, &c., by William Heriot, Esq.
- Specimens of Gorgonia and Sponge, by Rev. H. H. Higgins.
- A Curassow and a Python, by Mr. G. Hulse.
- A specimen of the Opah, or King Fish, caught in the River Dee, by Mr. R. Isaac.

- A specimen of Eschara, by Captain Jones.
- A Diogenes Crab, &c., by Mr. Jones, s.s. "China."
- A collection of Fish from Sicily, a Crab from the Sargasso Weed, an African Elephant's Tooth, specimens of *Cepola*, *Gobius*, &c., and Shells from Conception Bay, by R. J. Keen, Esq.
- Two Crustaceans, by G. Kendall, Esq.
- A large bottle of Reptiles, &c., from China, by R. Kenward, Esq.
- A Chameleon, by Mr. Kerr.
- Two Albatrosses, by Captain Mackey, ship "War Cloud."
- A Brazilian Riding Net, by Samuel Martin, Esq.
- A small collection of recent Shells, by R. McAndrew, Esq.
- A Slab of Fossil Fish from Lebanon, by J. W. McArthur, Esq.
- A Nest of the Moss Carder Bee, by Mr. R. McLeod.
- Eleven Shells, by Mr. G. H. Morton, F.G.S.
- Two Jerboas, from Egypt, by Mr. J. W. Orme, s.s. "Danube."
- Samples of China Grass, by J. Parratt, junr., Esq.
- A Sea Mouse, from Australia, by Captain Pill, ship "Lady Ebrington."
- The Skull of a Porpoise, and eleven species of Fish, by Captain Randall, ship "Lady Rowena."
- A Green Woodpecker, by H. F. Satchell, Esq.
- A Wasp's Nest, from Rio Grande, by P. Sinclair, Esq.
- A Lump Fish, (*Cyclopterus lumpus*), from Bootle, by Wm. Scott, Esq.
- An Echinus in Flint, by Mr. T. Tarleton.
- Three blocks of Basalt, from Giant's Causeway, by J. D. Thomson, Esq.
- Nine Cameos, by W. H. Tooke, Esq.
- Model of a Malay Proa, by Captain Treadwell, ship "Sagamore."
- Two Sparrow Hawks, a Harrier, and a Snipe's Nest and Eggs, by Thomas West, Esq.
- Numerous specimens of Fish, &c., from the North Atlantic, by Captain Whiteway.
- Casts of the Eggs of *Epiornis* and *Dinornis*, by Mr. B. M. Wright.
- Three Minerals, Walrus Tooth, &c., by Mr. J. R. Willis.

PURCHASES.

- A White-beaked Bottle-nose Porpoise, (*Lagenorhynchus albirostris*), stranded at Helbre; a group of male, female, and young of the Tasmanian Wolf, (*Thylacinus cynocephalus*), and seven other mammals.
- One young Gavial, and fifty other reptiles.
- One Polypterus, and eighty-two other Fish.
- Forty species of Mollusca.
- Fourteen specimens of Crustacea.
- Fifty-two specimens of Corals, Starfishes, &c.
- Thirty-one Fossils.
- Thirty-three Minerals.
- The skull of an African Elephant, the skull of a Porpoise, and three Skeletons.
- Numerous British Marine specimens, chiefly from the Irish Sea. After supplying the wants of the Museum, the duplicates are reserved for the purpose of exchange.

ADDITIONS BY EXCHANGE.

- Two hundred and thirty-six specimens of one hundred and eight named species of Fish, from Professor Agassiz, Museum of Comparative Zoology, Cambridge, Massachusetts.
- A collection of Fish, Mollusca, Crustacea, &c., from Dr. Stimpson, North Cambridge, Massachusetts.
- Four Bony Gar Pikes, (*Lepidosteus*,) and one Spoonbill Sturgeon, (*Polyodon*,) from Rev. Dr. Kost, Adrian College, Michigan.
- A Welsh Charr, new species, (*Salmo Cambricus*,) from Dr. Gimther.
- A Pilot Whale, (*Globiocephalus Svineval*,) from the Leeds Museum, per Mr. H. Denny.
- Twenty-nine mounted Skeletons of Quadrupeds, Birds, Fishes, and Reptiles from Mr. Gerrard.
- A collection of Marine Specimens from Weymouth, from Professor Rolleston, University Museum, Oxford.
- Minor exchanges have also been received from Mr. H. Woodward, Dr. Baylie, Dr. Fritsch, Dr. David Walker, Mr. R. Keen, Mr. Tyerman, Mr. R. Tyler, and Mr. Alfred Owen.

LENDING LIBRARIES.

Ten years have elapsed since the Lending Libraries were established. The experience gained during this period proves most conclusively that the working classes fully appreciate the importance of the means of education and rational amusement which they afford.

A plain statement of facts will suffice to exhibit their usefulness.

ISSUES FOR THE YEAR ENDING 31ST AUGUST, 1863.

North District Library.....	233,768
South District Library.....	227,312

Total Issues..... 461,080 volumes, or more than the entire population of the borough.

Since the commencement, 38,705 persons have availed themselves of the privilege of obtaining books for home and family reading.

Seventeen hundred persons frequently visit the Library in one day, and were it not for their orderly deportment, it would be next to impossible for the officials to get through their work.

From the establishment of the Libraries on the 18th October, 1853, to the 31st August, 1863, inclusive, three million four hundred and three thousand volumes have been lent.

The value of the books lost to the Institution from the outset amounts to £3 0s. 6d., or about 6s. per annum.

Nearly one-half of the Works in the Libraries have been purchased second-hand, and many were considerably worn when admitted. Bearing this fact in mind, and taking into account the homes and hands through which the books are incessantly passing, it is gratifying to be able to state that the wear and tear for ten years only averages £16 10s. 3d. for each branch.

BOOKS ADDED DURING THE YEAR.

By Purchase.....	2,716 vols.
By Donation.....	136 „
Total.....	2,852 „

BOOKS IN STOCK.

The Libraries opened with 2,000 volumes. At the present time the stock of books numbers 35,573 volumes, which are thus distributed, viz. :—

North Branch	16,589 vols.
South Branch	16,984 „

The following Return shows the Classification of the Books, and the Issues in each Department for the last Ten Years :—

CLASSIFICATION.	Books in the Department	Books Lent
Theology, Morals, and Metaphysics.....	1,700	86,685
Natural Philosophy, Mathematics, &c.....	674	39,536
Natural History	765	29,621
Science and the Arts	1,045	58,212
History and Biography	5,092	273,092
Topography and Antiquities	203	13,018
Geography, Voyages, and Travels.....	2,393	143,334
Miscellaneous Literature.....	5,499	302,615
Jurisprudence, Law, and Politics	204	5,158
Commerce, Social Science, and Political Economy	314	8,604
Education, Rhetoric, Logic, and Language.....	542	23,075
Poetry and Dramatic Literature	854	40,341
Light and Amusing Literature	13,996	2,372,807
Latin and Greek Classics, and Translations	80	3,126
Embossed Books, for the use of the Blind	212	3,727
TOTALS.....	£3,573	3,402,951

The Issues may be thus summed up :—

Religion, Science, History, and General Literature...	1,030,144 vols.
Light and amusing Literature.....	1,471,114 sets,
	or 2,372,807 vols.

RECEIPTS.

The following are the receipts under each head, for the last 10 years, viz. :—

For Tickets of Membership	£301 6 11
For Catalogues sold	654 15 7
In Fines for undue detention of Books	973 19 10
	<u>£1,930 2 4</u>

The whole of this amount has been applied towards the expenses. The Tickets of Membership, and the Catalogues are sold at a price to cover the cost of production.

NO. OF VOLUMES LENT EACH BORROWER, AND THE COST PER HEAD.

Each reader borrows on an average 53 volumes yearly. Nearly 9,000 adults and young people (one half under 21 years of age,) are at these Libraries provided with the means of self-education for less than three shillings each person.

SOCIAL STANDING OF BORROWERS.

The following is the classified occupations of the Borrowers:—

Merchants' and Shopkeepers' Apprentices, Office Lads and School boys	2,182
Mechanics, Labourers, Warehousemen, and Police Officers	2,719
Clerks, Shopmen, and others employed in Shops.....	1,094
Teachers, Pupil Assistants, and Scripture Readers	232
Shopkeepers and others engaged in business on their own account.....	219
Professional Men and Students	52
Unemployed Females	1,939
	Total..... 8,638

The Blind Borrowers continue to avail themselves of the books specially provided for their use in embossed type. And it is gratifying to find similar Institutions following the example of these Libraries in this particular.

Numerous examples might readily be adduced, showing the comfort and pleasure which many sick persons derive from these Libraries. Two cases may be cited.

An old sailor, who served under Nelson, was, as long as health permitted, a regular frequenter of the South Library. For two years he has been unable to leave his bed, and consequently is now obliged to send a messenger for books, which are his only companions during the sleepless hours of night.

A clerk, who has lost the use of his limbs, and is incapacitated from following his employment, finds his only solace in the books lent him from the North Branch. To numbers of unemployed labourers, mechanics, and others, they are of unspeakable advantage, as they enable them to spend many a tedious hour in a pleasant and profitable manner.

For books of an educational character there is a steady demand, and in order to foster as much as possible this desire for self-improvement, it is proposed to considerably augment the works in this class.

This is the only Free Lending Library in the kingdom that issues Music, and the quantity lent, and the care that is taken of it, prove how much it is prized. Works of this description cannot fail to refine and elevate those who use them.

A complete Catalogue of the South Library was published on the 1st of January, and up to the present time 1,159 copies have been sold at one shilling each. A new Catalogue embracing all the books in stock up to the close of the Library year is now in preparation for the North Branch.

The accompanying Tabular Returns will show the working of the Libraries in detail.

LIVERPOOL FREE LENDING LIBRARIES.

TABULAR MONTHLY STATEMENT OF BOOKS ISSUED, FOR THE YEAR ENDING 31st AUGUST, 1863, AS COMPARED WITH THE PREVIOUS YEAR, 1862.

CLASSIFICATION.	1863.												1862.																											
	No. of Vols. in Department	September	October	November	December	January	February	March	April	May	June	July	August	Total Issues in each Class	Average No. of Times each Vol. Lent	September	October	November	December	January	February	March	April	May	June	July	August	Total Issues in each Class	Average No. of Times each Vol. Lent											
Theology.....	1700	816	1023	905	1057	1040	1040	1125	1047	922	987	742	807	11541	7	1553	902	1042	1085	1040	1119	1055	1078	954	1069	932	918	858	12050	8										
Natural Philosophy.....	674	330	372	306	369	438	362	394	378	333	330	299	255	4156	6	634	429	527	482	412	361	462	465	402	384	354	350	344	4972	7										
Natural History.....	765	241	263	262	294	324	327	340	331	231	256	283	240	3412	4	716	282	298	299	322	327	322	383	380	334	249	257	240	3693	5										
Science and the Arts.....	1045	642	691	653	688	842	777	747	670	736	687	513	593	8239	8	1000	673	793	789	748	808	768	841	778	689	606	628	589	8710	8										
History and Biography.....	5092	2188	2428	2357	2467	2547	2381	2492	2386	2478	2266	1873	2086	27899	5	4739	2558	3101	2859	2758	2946	2772	2887	2596	2714	2454	2312	2318	32275	7										
Topography.....	203	103	85	102	85	116	117	110	90	92	131	94	88	1215	6	182	121	122	115	135	151	110	111	122	104	112	92	108	1412	8										
Geography, Voyages, &c. ...	2393	938	1089	1070	1257	1199	1133	1147	1130	1096	1122	977	1036	13194	6	2190	1092	1431	1528	1559	1575	1414	1385	1305	1357	1178	1189	1007	16000	8										
Miscellaneous Literature.....	5499	3233	3400	3488	3883	3946	3879	4134	3636	3472	3556	3055	3413	43095	8	4998	3373	4115	3961	3602	4056	3710	3885	3739	4310	3387	3343	45062	9											
Jurisprudence, Law, &c.....	204	37	50	55	57	66	43	62	40	43	54	34	45	586	2	192	60	36	54	46	41	40	40	36	53	36	28	29	499	2										
Commerce, Social Science, &c.....	314	79	101	112	115	121	121	136	118	93	116	119	127	1358	4	269	111	141	155	140	128	85	104	105	114	86	74	78	1321	6										
Education, Rhetoric, Logic, &c.....	542	251	263	244	263	282	256	285	242	265	271	162	199	2973	5	430	222	260	252	249	295	311	307	281	275	234	223	244	3153	6										
Poetry and the Drama.....	854	293	352	371	423	446	418	407	414	436	409	317	339	4625	5	836	299	375	391	439	454	362	332	348	382	211	224	291	4108	5										
Light and Amusing Literature.....	13996	7626	29011	27701	30282	30757	28392	29670	28925	28697	28839	22236	25777	337963	24	13303	27926	31340	29471	28977	30601	28972	32285	30089	29099	28147	28672	28026	33539	26										
Classical Literature.....	80	18	25	20	22	21	26	19	31	21	15	25	22	265	3	75	9	18	12	24	37	29	36	27	30	31	23	25	301	4										
Books for the Blind.....	212	47	57	45	59	53	39	44	39	38	52	39	47	599	2	194	63	54	49	49	57	52	59	57	52	44	45	55	636	4										
Total Number of Vols. in the Libraries.....	33573	Each Vol. lent on an average during the year 14 times.												461080	Total Issues.....												487791	Total Issues.....												487791
	Each Vol. lent on an average during the year 15 times.												31371	Total Issues.....												487791														

TABULAR STATEMENT,

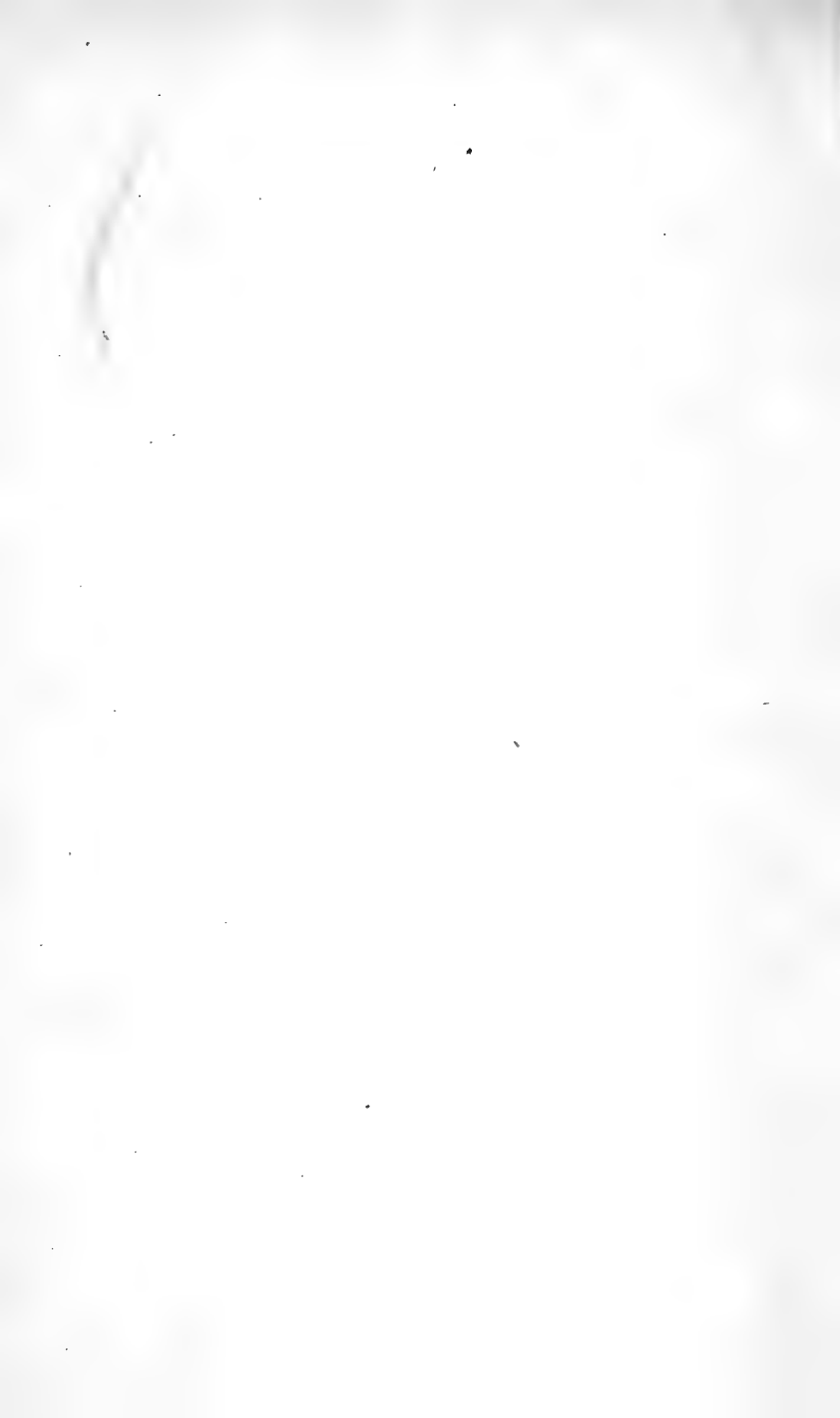
SHEWING THE NUMBER OF VOLUMES IN EACH CLASS OF LITERATURE IN THE LIBRARIES, WITH THE ISSUES IN EACH YEAR SINCE THE COMMENCEMENT.

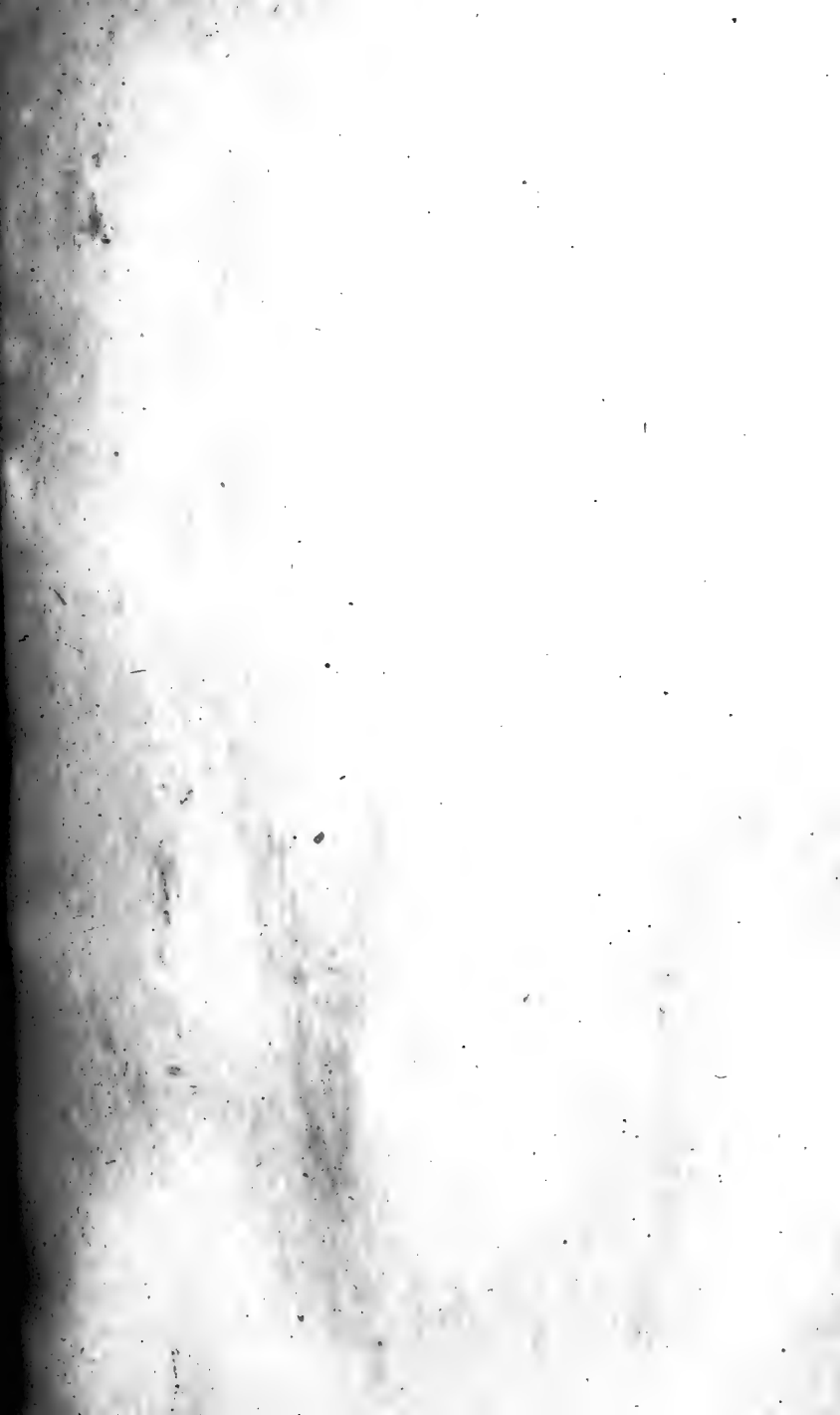
Classification.	1854.		1855.		1856.		1857.		1858.		1859.		1860.		1861.		1862.		1863.		No. of Vols. Issued in the Ten Years.
	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	Vols. in Department	Vols. Issued	
Theology	124	868	389	2410	543	6953	750	8723	852	10376	1050	10444	1204	11608	1392	11722	1553	12050	1700	11541	86685
Natural Philosophy	120	777	203	1446	280	3964	339	4496	435	5100	502	5029	536	5128	626	5068	654	4972	674	4156	39536
Natural History	104	590	210	1439	315	2967	358	3456	462	3838	527	2957	573	3316	646	3953	716	3693	765	3412	29621
Science and the Arts	128	684	254	1546	335	4255	367	5292	506	6248	672	6927	835	7795	930	8566	1000	8710	1045	8239	58212
History and Biography	950	5741	1645	13153	2354	25046	2896	29035	3522	33904	3978	35812	4224	34516	4491	34511	4739	32275	5092	27899	273062
Topography	36	264	69	531	108	1391	119	1669	141	1787	156	1731	161	1627	168	1391	182	1412	203	1215	13018
Geography, Voyages, &c.	425	2588	791	6903	1141	14247	1420	17257	1669	18525	1861	19771	1962	18137	2095	16712	2190	16000	2393	13194	143334
Miscellaneous Literature	629	3384	1400	8881	2012	21063	2654	25952	3253	36767	3367	38675	4252	36677	4616	42159	4998	45062	5499	43095	302615
Jurisprudence, Law, &c.	28	107	76	317	100	788	121	784	149	696	159	684	166	371	183	476	192	499	204	586	5158
Commerce, Social Science, &c.	31	104	47	285	73	602	86	682	117	733	160	871	199	1197	229	1451	269	1321	314	1386	8604
Education, Rhetoric, Logic, &c.	20	102	116	649	183	1924	234	2415	283	3832	307	2906	382	2851	412	2770	480	3153	542	2973	23075
Poetry and the Drama	210	886	274	1897	390	3539	512	4620	598	5613	667	5307	734	4027	793	4059	826	4108	854	4625	40341
Light and Amusing Literature ...	1548	19808	2548	59285	4386	141223	7110	202894	8542	263772	9595	304541	11271	334462	12378	365260	13903	333599	18996	337963	2372807
Classical Literature	22	135	32	279	34	426	36	475	41	381	43	347	47	327	75	190	75	301	80	265	3126
Books for the Blind .....	...	...	...	...	...	...	...	...	58	441	130	607	130	773	165	711	194	636	212	559	3727
Totals	4435	35978	8054	99021	13254	229348	17002	308200	20628	391413	23674	436509	26076	463712	29699	489899	91371	487791	33573	461050	3402951

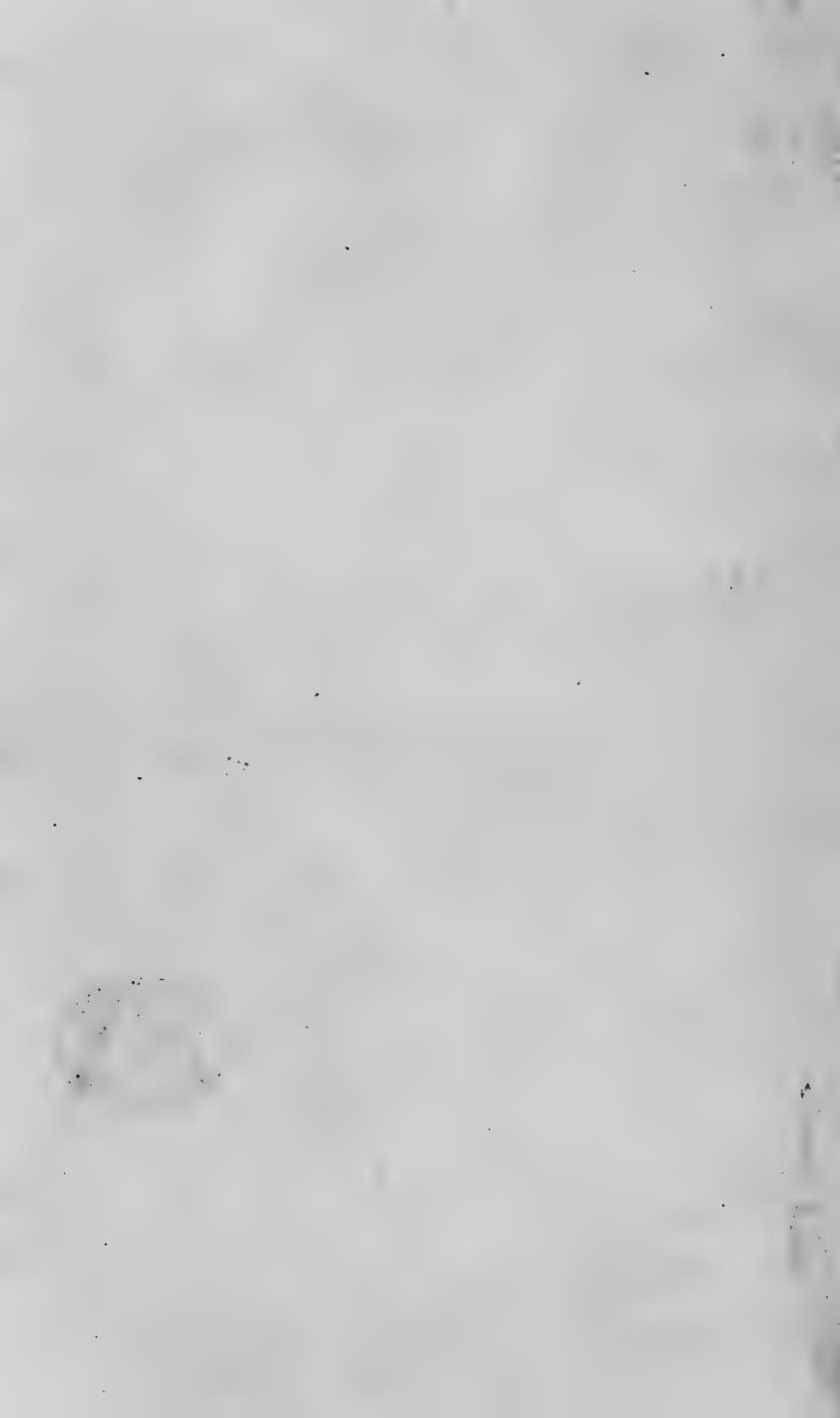
Religion, Science, History, and General Literature, 1,030,144 vols.

Light and Amusing Literature, 1,471,114 vols, or 2,372,807 vols.









TWELFTH ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM,
AND
GALLERY OF ARTS,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL. 1864.



LIVERPOOL:
PRINTED BY GEORGE M'CORQUODALE AND CO.
1864.



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OFFICERS AND COMMITTEE

FOR THE YEAR 1863-4.

Committee.

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THOMAS AVISON, F.S.A., DEPUTY-CHAIRMAN.

CHARLES MOZLEY, MAYOR.

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JOHN YATES,

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GEORGE HUDSON.

Superintendent of the Lending Libraries.

PETER COWELL.

Curator of the Derby Museum.

THOMAS J. MOORE.

REPORT.

REFERENCE LIBRARY.

DURING the present year, the average number of Books issued and returned has been 1473 per day, the yearly circulation numbering 420,590 volumes.

The following is a Classified List of the Books issued :—

CLASSIFICATION.	Volumes.	Daily Average about
Theology, Morals, and Metaphysics.....	15,259	53
Natural Philosophy, Astronomy, Chemistry, &c.....	15,297	54
Natural History, Botany, Mineralogy, &c.....	6,903	24
Science and the Arts, Architecture, Painting, Music, &c.....	24,342	85
History and Biography	36,571	128
Topography and Antiquities.....	6,899	24
Geography, Voyages, and Travels.....	25,734	90
Miscellaneous Literature	96,875	339
Jurisprudence, Law, and Politics.....	3,884	14
Commerce, Political Economy, and Social Statistics.....	3,092	11
Education, Logic, Language, &c.....	10,247	36
Poetry and Dramatic Literature	20,296	71
Works of Imagination.....	144,939	508
Classical Literature	3,056	11
Heraldry, Encyclopædias, and Works of Reference.....	7,196	25
	420,590	1,473

Several most valuable works in Topography, Architecture, Natural History, and Ornamental Art, have been added to the treasures of the Library, principally from the donation of Joseph Shipley, Esquire, of Delaware, United States of America, which, they regret to say, is now almost exhausted.

Among the purchases from this Fund may be named the great works of Audubon, Catlin, Bonaparte, Cuvier, Buffon, and Reeve ; Layard's Nineveh, Biblia Polyglotta, the Royal Gallery, the Catacombs of Rome, and other works of the highest character.

During the last year 1940 volumes have been added to the Library, viz. :— 1615 by purchase, 67 by donation, 79 from the Commissioners of Patents, 66 volumes of Parliamentary Papers, and 113 of Magazines, Reviews, &c., under the following heads.

CLASSIFICATION.	1863.	Additions.	1864.
Theology, Morals, and Metaphysics	2,762	252	3,014
Natural Philosophy, Astronomy, &c.....	1,000	39	1,039
Natural History, Botany, Mineralogy, &c.....	1,875	141	2,016
Science and the Arts, Architecture, &c.....	3,753	231	3,984
History and Biography.....	5,891	230	6,121
Topography and Antiquities.....	1,636	110	1,746
Geography, Voyages, and Travels.....	2,589	95	2,684
Miscellaneous Literature	6,383	329	6,712
Jurisprudence, Law, and Politics.....	3,325	106	3,431
Commerce and Social Statistics.....	322	31	353
Education, Logic, Language, &c.....	493	37	530
Poetry and Dramatic Literature.....	1,650	90	1,740
Works of Imagination.....	4,173	189	4,362
Classical Literature	181	9	190
Heraldry, Encyclopædias, and Works of Reference	1,140	51	1,191
	<u>37,173</u>	<u>1,940</u>	<u>39,113</u>

MUSEUM.

VISITORS.

DURING the past year the Museum has been thrown open to the Public on Monday nights from 7 to 10 during the six winter months. The number of Visitors on these occasions has been considerable, and, so far as is known, no damage from the use of gas has ensued to the objects exhibited.

The total number of *Evening* Visitors was 23,868 ; the maximum number 1437, the minimum 395, the average 954.

The total number of *Day* Visitors during the year amounts to 464,255, giving a daily average of 2169. These numbers show an increase over the preceding year of 37,043 in the total, and of 170 in the daily average.

The *Day and Evening Visitors together* amount to 488,123.*

During the past Summer the number of Visitors has on seven different occasions exceeded 5000 ; on two occasions it has exceeded 6000, and on three occasions the numbers were 7495, 8277, and 8903. The minimum during the year occurred on the 3rd of December, when 690 persons passed through the rooms.

GALLERY OF INVENTIONS AND SCIENCE.

The various Models of Machinery, New Inventions, &c., exhibited in this Department, have been placed under the care of an attendant appointed by the Library and Museum Committee.

* This greatly exceeds the entire population of Liverpool (443,938), as given in the Parliamentary Census Reports for 1862, p. xxiii.

DONATIONS.

- Two Specimens of Starfish (*Ophiscoma rosula*) from Menai Bridge ; presented by Dr. Alcock.
- Numerous Specimens of living King Crabs (*Limulus*) ; Thirty Specimens of Young Do. ; One small Tortoise, and a specimen of Native Copper from Lake Superior ; presented by Captain Anderson, R.M.S.S. "China."
- Six large Diagrams of Corals and their Animals, presented by Miss Archer.
- A small series of Fossils and Minerals from Canada ; presented by Rev. W. Banister.
- Three Bowls from Monterey, Mexico ; Two Baskets from W. Africa ; a Bat ; a young Leathery Turtle ; a Tapayaxin ; a Lizard ; a Snake, and a large Lepidopterous larva from Matamoras ; presented by Mr. George Bark.
- An Extensive Collection of Fish, and Specimens of Crustacea, Cephalopoda, Starfish, Shells, Insects, &c. from Singapore ; presented by Robert Baker, Esq.
- A very Extensive and Interesting Collection of Marine Specimens collected on the voyage to and from Shanghai ; presented by Captain F. E. Baker, Ship "Nippon."
- Two Septaria ; One Polished Section of Ditto ; One Nautilus ; and One (*Lima gigas*) from Cheltenham ; presented by Samuel Bendall, Esq.
- Specimens of Twenty-six species of Lizards, Fish, Crustacea, Mollusca, and Radiata from Cuba ; presented by Captain Berry, Ship "Midas."
- One Flying Gurnard from Malta Bay ; Four Fish from Smyrna and 1 Tortoise ; presented by Captain Blacklock, s.s. "Arcadia."
- A Collection of Fish from Alexandria and the Mediterranean ; Twelve Specimens of Living Gold Carp, and Seven Specimens of Three other species of Fish in spirit from the Nile ; Four Reptiles ; One Octopus ; One Echinus ; Two Starfish, and Four Specimens of Two species of *Murex* (alive) ; presented by Captain Browne, s.s. "Agia Sofia."
- Two Snakes from Congo River, presented by William Collas, Esq.
- A Long-tailed Field Mouse (*Mus sylvaticus*) from Mold ; presented by N. Cooke, Esq.
- A Collection of Samples of Raw Produce from the International Exhibition of 1862 ; presented by the Committee of Council on Education.
- The Skeleton of a Brahmin Bull ; presented by the Right Hon. the Earl of Derby.
- Thirty Fossils from Malta and Sicily ; Three living Tortoises from Greece ; Epiphysis of Femur of *Elephas* from Bombay Harbour ; a Tortoise and a Great Earth-Worm from Ceylon ; presented by Henry Duckworth, Esq.
- A large Conger Eel, presented by Mr. Duncan.

- A Specimen of Galena, Blende, and Manganese, on Calc Spar ; presented by Mr. H. Edmondson.
- A Collection of Fish, and a Lizard from West Africa, and a Musical Instrument from Camaroons River ; presented by Dr. Elliott.
- A Coat made of Salmon Skin from the Amoor River ; a Coral ; a Snake from West Indies ; Three bottles of Snakes, Fish, Insects, Porpitæ, a Lizard, &c., from Mazattan ; Two Turtles (*Caouana caretta*), and the stern of the Barque "*Edwin and Lizzie*," broken by a Whale ; presented by J. O. W. Fabert, Esq.
- A fine Specimen of Brown Quartz, from Cornwall, presented by Mr. Fairburn.
- A Cobra da Capello ; Thirteen Reptiles ; One Leech ; Twenty Insects and Larvæ ; Twelve Models of Natives, (Hindoos, &c.) and One Native Painting of a Hindoo Deity ; presented by Capt. Fletcher, Ship "Florence Nightingale."
- Specimens of Fish, Reptiles, Mollusca, &c., from Calcutta ; presented by Capt. G. Fletcher, Ship "Thomas Brocklebank."
- Specimens of Twenty species of Fossils, Shells, &c., from Huelva, Spain ; presented by William Gammage, Esq.
- Specimens of Eighty species of Shells, Three Minerals, Two Echinoderms. Two Corallines, and Two Fish Barrows ; presented by A. H. Gillilan, Esq.
- A large Squid, taken in Lat. 47° 51' North, Long. 38° 16' West ; presented by Capt. Graham, s.s. "Nova Scotian."
- The Skin, Horns, and Skull of a Male and Female Rein Deer, from Lapland ; Specimens of Spawn of Cephalopods, from Liverpool Bay ; a Black Guille-mott ; a Collection of Fossils and Minerals, from the Western Islands of Scotland ; Living Specimens of Crustacea, Sea-Anemones, Echinus, &c. ; presented by S. R. Graves, Esq.
- A Collection of Samples of Imports, and Three Specimens of the Gillaroo Trout ; presented by S. L. Gregson, Esq.
- A Three-bearded Rockling, from Hoylake ; presented by Mr. C. S. Gregson.
- The Jaws of an Eagle Ray (*Myliobatis*) ; presented by Mr. Edward Grierson.
- Specimens of Botryllus, &c., from Beaumaris ; a large Swan Mussel (*Anodonta cygnea*) from Raby Pool ; and a rare Crustacean (*Pasiphaea sivado*), taken in the Mersey ; presented by W. H. Hatcher, Esq.
- Forty Rock Specimens, chiefly Granites, from Donegal ; determined and presented by Rev. Professor Haughton, Trinity College, Dublin.
- Twenty Otoliths or Ear-Bones from Fish ; One Argentine, One Topknot, and One Fimbriated Rockling (British Specimens) ; presented by E. T. Higgins, Esq.
- A Collection of Marine Specimens from Algiers ; presented by T. Ward Higgs, Esq.

- A Three-bearded Rockling from North Wales, and a Wrasse ; presented by Mr. Isaac.
- A small Collection of Fish, dried Specimens of Velellæ, &c. ; presented by Capt. Jerrett, Ship "Zone."
- A large Specimen of the Sun Fish (*Orthogoriscus mola*), and Two Porpoise Skulls ; presented by Capt. Johnson, Brig "Ringleader."
- A Collection of Birds and Shells from India ; presented by Tertius Joynson, Esq.
- Eight Fish : Two Squids and a Jelly Fish, from Nassau, New Providence ; and Six small Crabs from Concepcion Bay ; presented by R. J. Keen, Esq.
- Three Geckos ; a Snake ; a Sucking Fish ; Four Nests of Weaver Birds, &c., chiefly from Burmah ; presented by Capt. Major, Ship "Norway."
- The Egg of a Shark, from Australia ; presented by Mr. F. P. Marrat.
- Living Specimens of Sea Anemones, Mollusca, &c., from Whitby ; presented by Thomas Marwood, Esq.
- Three Snakes from the West Indies ; presented by Messrs. McHenry.
- A small Parrot Fish (*Diodon*) ; presented by Capt. Morgan, Ship "Minnie Haha."
- Eight living Specimens of Three species of Fish, and Two living Molluscs (*Venus mercenaria*) ; Eleven species of Fish ; One Lobster ; One Fresh-Water Tortoise ; Four lots of Barnacles ; Two living Fish (*Stilbe chrysoleucus*) ; Two living Cat Fish ; Two living Sun Fish (*Pomotis*)¹ ; and One *Chatodon* ; all from New York ; and One ditto from Bermuda ; presented by Captain Mortimer, Ship "America."
- A Diagram of the Strata between Huyton and the River Dee, and Eighteen British Rock Specimens ; presented by G. H. Morton, Esq.
- A Kingfisher, shot at Melling ; presented by W. O'Donnell, Esq.
- Specimens of Sulphur and Sulphate of Strontian, and Two other Minerals from Sicily ; presented by Mr. Owens.
- Two fine Specimens of *Cidaris* ; presented by Capt. Penhallow.
- Two large Cup Sponges, from Riho Straits, near Singapore ; presented by Capt. H. Purchase.
- A large Echinoderm (*Asterias*) ; presented by Mrs. Purchase.
- Specimens of Charr, Schelly, Glutinous Hag, &c. ; presented by Dr. Rolleston, University Museum, Oxford.
- Thirty Specimens of Arrow Heads, Teeth, &c., from the Indian Mounds of Kentucky ; and Thirty Specimens of Eighteen species of American Fossils ; presented by Professor Lawrence Smith.
- Three Snakes from West Africa ; presented by Capt. Thomas, Ship "Huddersfield."
- Specimens of Twenty-seven species of Marine Animals from Bombay ; presented by Capt. Thompson, Ship "Admiral Lyons."

- A Chinese Opium Pipe ; presented by Dr. P. Thomson.
- A Mud Fish (*Lepidosiren*) from the Gambia ; a Snake from Mexico ; and Specimens of the Ailanthus Silk Moth, hatched from cocoons in the Botanic Gardens ; presented by Mr. J. S. Tyerman.
- One Echinoderm ; Two *Lepas fascicularis* ; Six *Pentalasmus anatifera* ; One Starfish, and Three species of Barnacles ; presented by R. Tyler, Esq.
- A pair of Stag Horns, from the Himalayas ; presented by General Vetch.
- Nine Fossil Shells from New Zealand ; and Nine Leg-bones and Vertebrae of the Moa, *Dinornis gigantea*, from Canterbury, New Zealand ; Three Pipe Fish ; One Frog Fish ; Four Crustaceans ; Two Nudibranchs ; and Two Velellae found among Sargasso Weed ; presented by Sherbrooke Walker, Esq.
- A Lump Fish from Carnarvon ; presented by Mr. Walker.
- Twelve species of Minerals and Two Shells (*Maetra sayi*) from Canada ; presented by — Webster, Esq.
- Two rare Shells (*Cyclas ovale*), taken near Crosby ; presented by Walter Weld, Esq.
- A Short Eared Owl ; One Adult Female, and Nine Young Merlins ; Two Stone Chats ; Six nestling Sparrow Hawks, and a Female ditto ; Two Herons ; Two Brown Owls ; One Jay ; and One Adder ; presented by Thomas West, Esq.
- Twelve living Specimens of *Edwardsia*, *Priapulius*, and other rare Marine Annelids and Actinoids ; presented by Capt. Wethered, R. A.
- Specimens of Seventy species of Fish, Cephalopods, &c., from West Coast of South America ; presented by Capt. Whiteway, Ship "Annie Cheshyre."
- Eight Annelids (*Chaetopterus*) and a *Cerianthus* from Beaumaris ; and a large Annelid (*Eunice gigantea*) ; presented by J. Williams, Esq.
- A Sample of Black Coral from the reefs of Jeddah, Red Sea, and beads made from the same by Mussulman devotees ; presented by Lieut. C. T. Wilson, H.M. Indian Navy.
- Four Fish ; One Young Crocodile ; and the Head of a Boa from West Africa ; presented by — Woods, Esq.
- A nest of the Trap door Spider from Jamaica ; presented by Mr. J. P. Wright.

PURCHASES.

- A Two Humped Camel.
- Ten Skulls and Horns of Antelopes, &c., from South Africa.
- A Pair of Horns of the Sambur Deer, and of Angas's Antelope.
- A Grison, and Eight other Mammalia.

A fine specimen of the Waxen Chatterer, shot at Morton, Cheshire

Four Nests of the Edible Swallow.

Twenty-three Reptiles.

A fine Specimen of the Sword Fish (*Xiphias gladius*), captured at Southend, Essex.

An Angel Fish (*Squatina angelus*), taken near the Bell Buoy.

The Skeleton of a Short Sun Fish (*Orthogoriscus mola*), taken near Southport.

The Skull and Jaws of a large Shark.

Ten Fish from the West Indies ; Six from Sidney ; Five from Natal ; Two from Demerara ; and Forty-seven other Fish.

Nine Crustacea.

A Sea Mouse (*Aphrodita*) from Singapore.

Fifty-four Larvæ of British Lepidoptera, beautifully preserved in a dry state, by Mr. J. Baker, Cambridge.

A small collection of Shells from Natal.

One Hundred and Sixty-three selected Shells, and a Cuttle Fish.

Four Star Fishes, from California.

A small collection of Star Fishes and Sea Urchins from Tasmania and South Australia.

A series of Corals from China and South America, and Four other Corals, and Three Sea Fans.

A set of reduced Models by B. Waterhouse Hawkins, of his large restorations at Sydenham, of the *Iguanodon*, *Megalosaurus*, *Ichthyosaurus*, *Pterodactyle*, and *Plesiosaurus*.

The Skull, and many of the Bones of the Great Cave Bear (*Ursus spelæus*) from Arrière, France.

Sixty species of Miocene Fossils, from Bordeaux.

Ten Trilobites, Encrinites, &c., from Dudley.

Twenty Teeth, &c., of Hyæna, Fox, Horse, and other mammals, from Durdham-Down Cave.

Twenty-five Carboniferous Limestone Fossils from Ireland, and Five other Fossils.

A collection of Fossils, chiefly from the Crag of Suffolk.

Two collections of Minerals, chiefly from Cumberland.

One Hundred and Ten mounted objects for the Microscope.

EXCHANGES.

Sixty-seven Specimens of Forty species of Echinoderms, named and authenticated by Alexander Agassiz, Esq. ; from Professor Agassiz, Museum of Comparative Zoology, Cambridge, Massachusetts.

Eighty-three Specimens of Bohemian Trilobites, and a Cast of *Asaphus nobilis*,
from Dr. Fritsch, Prague.

Twenty rare Swedish Minerals, from W. Anderberg, Esq., Stockholm.

A Specimen of *Galeomma Turtoni* from Exmouth, from G. H. Parke, Esq.
Halifax.

Two rare Sponges, One Crustacean, and One large Echinoderm, from H.
Duckworth, Esq.

A fine Specimen of *Calymene Blumenbachii*, from E. Charlesworth, Esq.

Casts of *Woodocrinus macrodactylus* and *Pterygotus acuminatus*, from Mr.
B. M. Wright.

Two South American Snakes, from Miss Bright.

A Fish (*Trichiurus*) from the Warrington Museum.

Exchanges are also in negotiation with the Museum of the Asiatic Society
of Bengal, at Calcutta ; the Victoria Museum, Bombay ; the Madras Govern-
ment Central Museum ; and the Museum of the Royal Dublin Society.

THOS. J. MOORE, *Curator.*

LENDING LIBRARIES.

THE Branch Libraries still continue to circulate a large amount of useful and entertaining literature.

During the past year 432,251 volumes have been issued, making the total number of volumes lent since the establishment of the Lending Libraries nearly Four Millions ; while the total number of Tickets issued to borrowers amount to 42,117, of which 34,233 have been cancelled, leaving the actual number of readers 7,884.

The following Table shews the classification of Books lent during the past twelve months :—

	Volumes.
Theology, Morals, and Metaphysics	9,485
Natural Philosophy, Mathematics, &c.	3,800
Natural History, Botany, Geology, &c.....	2,912
Science and the Arts.....	7,514
History and Biography.....	21,192
Topography and Antiquities.....	1,110
Geography, Voyages, and Travels	11,700
Miscellaneous Literature	39,329
Jurisprudence, Law, and Politics.....	511
Commerce and Political Economy	1,383
Education, Logic, and Language.....	2,796
Poetry and Dramatic Literature	3,827
Light and Amusing Literature	325,967
Latin and Greek Classics	285
Embossed Reading for the Blind.....	440
Total.....	432,251

During the year a complete Catalogue for the North Branch has been published, and a thorough examination of the books effected, when many works of a popular character were found worn-out, and unfit for further circu-

lation. Most of these it was thought desirable to replace, with the exception of 340 volumes, which have been withdrawn entirely from the Library Shelves.

The additions during the last year number 1488 volumes, making a total, after deducting those withdrawn, of 34,721 volumes.

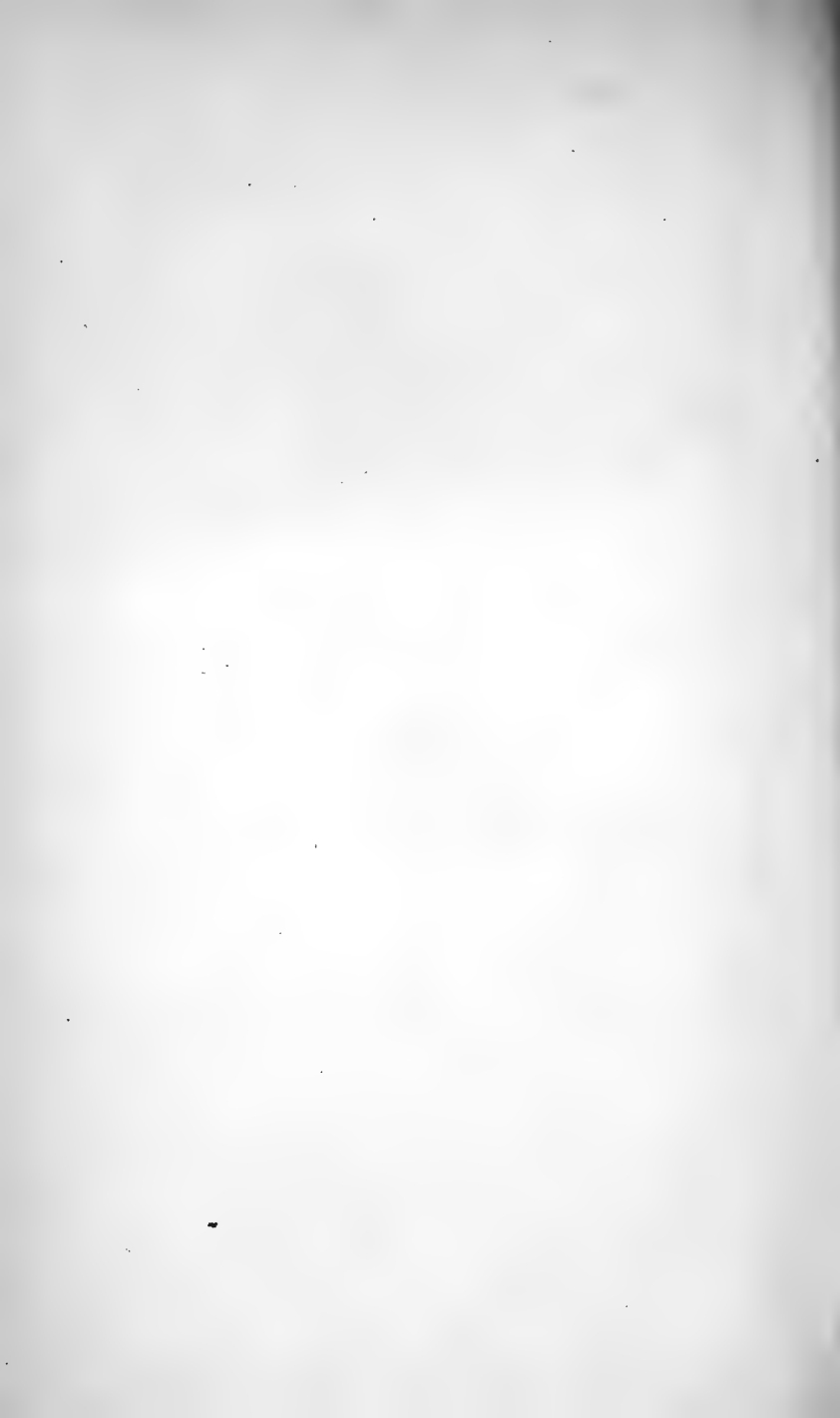
These are divided in the following proportion :—

North Branch	16,979
South Branch	17,742
Total.....	<u>34,721</u>

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15 JUL. 1898







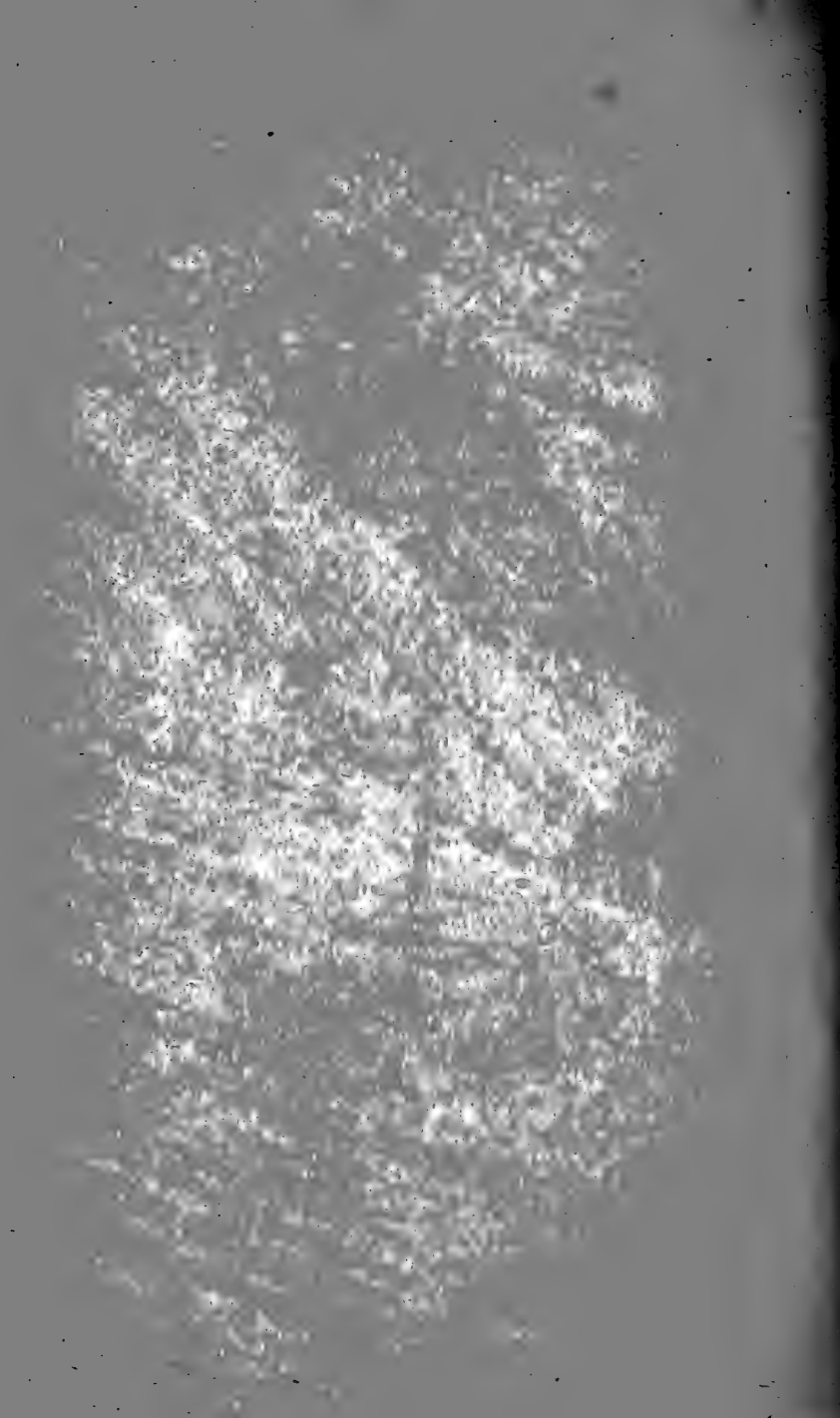
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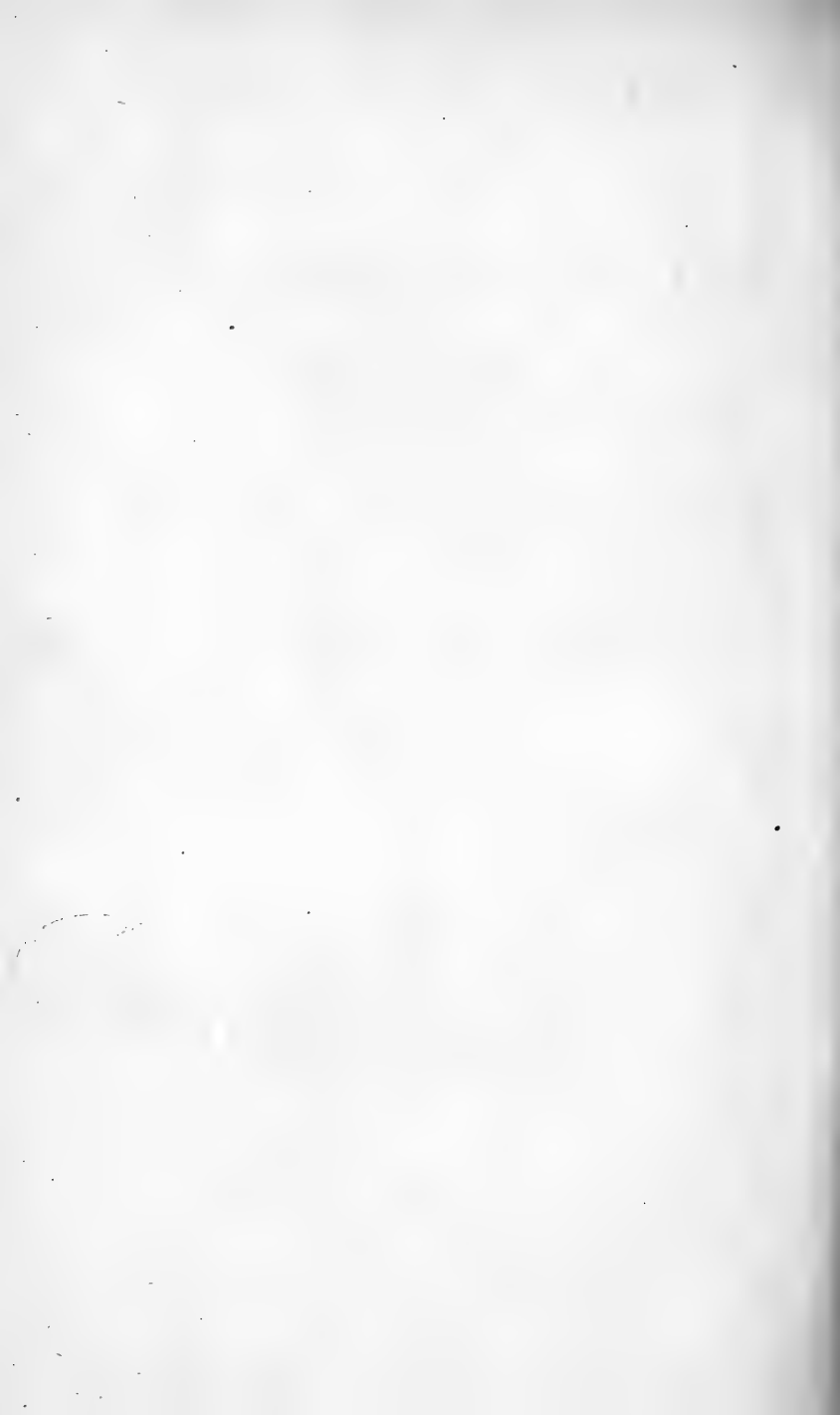
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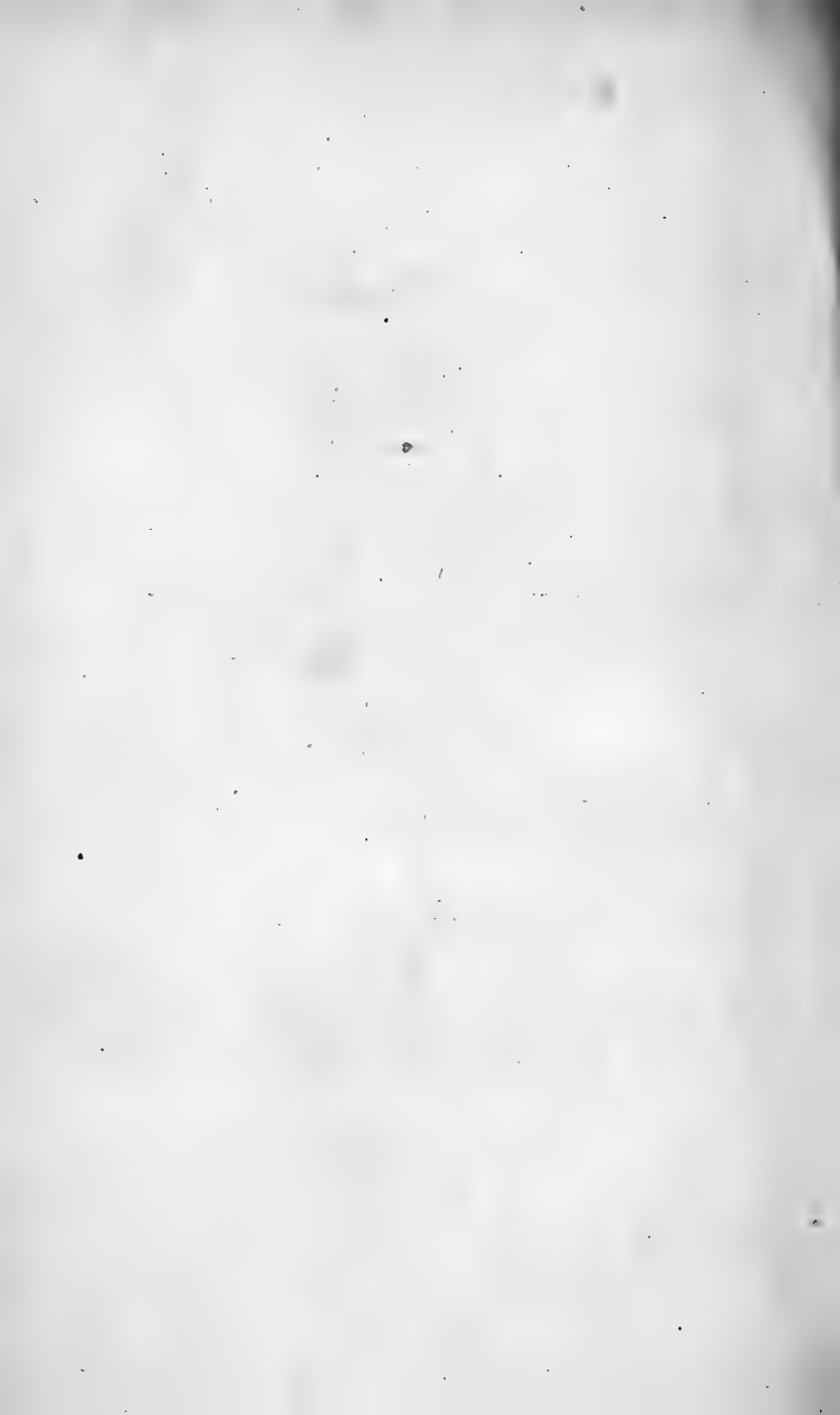
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OFFICERS AND COMMITTEE

FOR THE YEARS 1864-65.

Committee.

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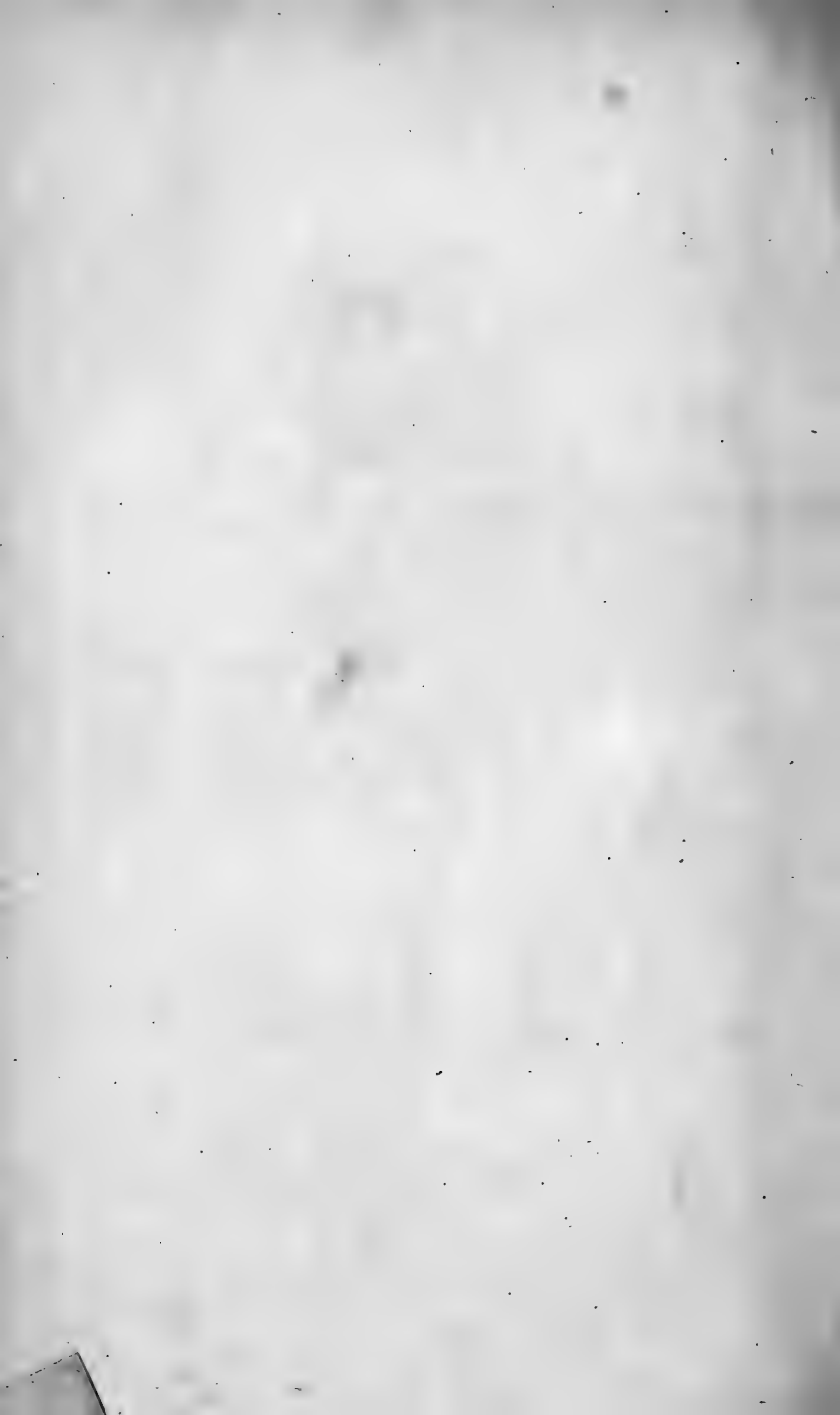
GEORGE HUDSON.

Superintendent of the Lending Libraries.

PETER COWELL.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

REFERENCE LIBRARY.

DURING the present year, the average number of Books issued and returned has been 1547 per day, the yearly circulation numbering 420,127 volumes, against 420,590 volumes during the previous year.

The following is a Classified List of the Books issued:—

CLASSIFICATION.	Volumes.	Daily Average about
Theology, Morals, and Metaphysics.....	14,486	53
Natural Philosophy, Astronomy, Chemistry, &c.	13,794	51
Natural History, Botany, Mineralogy, &c.	5,040	19
Science and the Arts, Architecture, Painting, Music, &c...	25,696	95
History and Biography	32,160	118
Topography and Antiquities	6,721	25
Geography, Voyages, and Travels	25,230	93
Miscellaneous Literature	102,978	379
Jurisprudence, Law, and Politics	3,841	14
Commerce, Political Economy, and Social Statistics	3,138	12
Education, Logic, Language, &c.	9,693	36
Poetry and Dramatic Literature	19,384	71
Works of Imagination	148,275	546
Classical Literature.....	3,031	11
Heraldry, Encyclopædias, and Works of Reference.....	6,660	24
	<u>420,127</u>	<u>1,547</u>

The proportionate increase in the issues is larger than is shewn by the table, as the Library was Closed for Painting, Cleaning, &c., from December 17th, 1864, to January 4th, 1865, a period of fourteen and a half working days. Taking the daily issue during this time at the same average, it would increase the numbers by 22,431, making a total for the year of 442,558, or an increase over the previous year of 21,968 volumes.

During the past year 2072 volumes of Books have been added to the Library, viz.:—1953 by purchase, 75 from the Commissioners of Patents, and 67 by donation, under the following heads.

CLASSIFICATION.	1864.	Additions.	1865.
Theology, Morals, and Metaphysics	3,014	207	3,221
Natural Philosophy, Astronomy, &c.....	1,039	37	1,076
Natural History, Botany, Mineralogy, &c.	2,016	104	2,120
Science and the Arts, Architecture, &c.....	3,984	152	4,136
History and Biography.....	6,121	192	6,313
Topography and Antiquities	1,746	117	1,863
Geography, Voyages, and Travels	2,684	106	2,790
Miscellaneous Literature	6,712	444	7,136
Jurisprudence, Law, and Politics	3,431	104	3,535
Commerce and Social Statistics	353	25	378
Education, Logic, Language, &c.	530	57	587
Poetry and Dramatic Literature.....	1,740	89	1,829
Works of Imagination	4,362	260	4,622
Classical Literature	190	73	263
Heraldry, Encyclopædias, and Works of Reference	1,191	105	1,296
	39,113	2,072	41,185

The Act of Parliament under which the Library and Museum are established, makes provision for the delivery of Lectures on Scientific subjects, either gratuitously or by a charge for admission. An experiment is now being made to carry out this purpose. A School of Science has for some time past been conducted in the rooms of the Library, especially intended for the industrial classes. This School is in no way connected with the Library, nor supported by its funds. It has already been the means of educating many working men in the sciences connected with their business; but a want has been felt of popular Lectures to supplement the instruction given in the School. The Library Committee, considering that such a plan came legitimately within the scope of their commission, have arranged for four courses of Lectures; one on Geology, by Dr. Birkenhead; one on Chemistry, by Mr. Newton Samuelson; one on Geometry, by Professor Cameron; and one on Natural Philosophy, by Dr. Birkenhead. A portion of these have already been delivered with considerable success. The admission is gratuitous, principally to the readers in the Library. The total expense will not exceed one hundred pounds for the season. The resumption of these lectures must depend on the amount of attention they receive.

GALLERY OF ARTS.

The Library and Museum Act was intended to make provision for three departments; a Library, a Museum, and a Gallery of Arts. The two first are now in full healthy operation, and it is believed are satisfactorily fulfilling the

purposes for which they were intended. Your Committee, after mature consideration, are of opinion that the time is fully come for making an effort to carry out the remaining department—the Gallery of Arts. The want of such an Institution has long been felt, and is every year becoming more obvious. Attempts have been made to provide a building by private enterprise, but difficulties have arisen in that direction which it is believed would not occur if the question were taken up on behalf of the public. There are large numbers of pictures and other art-treasures in the hands of private collectors, which would find a resting place in an Institution secured to the public by law, free and open to all, and supported by the Municipality; whilst the same confidence could hardly be expected in an undertaking, however respectable, which was private property, and precarious in its means of support.

The means of erecting and maintaining such a building with its necessary expenses, it is believed already exist, without the necessity of trenching on the Borough funds or asking for any grant from the surplus income of the Corporation. They may be stated briefly as follows:—Under the Library and Museum Act, power is given to borrow to the extent of £20,000 on the security of the penny rate. The rate has hitherto been held liable to the amount of £2,406 13s. 4d., remaining due on account of the purchase of the Botanic Gardens. Up to the present time the annual expenses (exclusive of special grants for furnishing, fixtures, &c.,) have never exceeded the annual income. This income is steadily increasing, the actual amount realized during the last complete year being nearly £7,000. It is quite true, that owing to circumstances, with which the Committee had nothing to do, the whole of one year's rate and part of another were entirely lost to the Institution. This deficiency having been paid out of the corporate funds, stands to the debit of the Library and Museum account, as a debt amounting to the sum of £7,466 13s. 4d. It must be obvious, on the slightest consideration, that as this amount has been saved to the rate-payers by being paid out of the corporate fund, there can be no more reason for treating it as a burden on the Museum rate than the similar payments made every year towards the Watch and Lighting rate out of the corporate income. Your Committee, therefore, recommend that this amount shall be written off and cancelled. This would involve no further payment, but would leave the institution free to pursue its future course of usefulness unfettered.

This having been done, it is recommended that such a sum as may be necessary be borrowed on the security of the rate, and that a suitable building be erected on the vacant land on the East side of the Library, which has always been intended for the purpose, to combine galleries for painting and sculpture with provision for a school of design, and, if the funds would admit, for annual exhibitions of works of art.

Your Committee commend this subject to the earnest consideration of the Council and the public. They believe that the object is one well worthy of being entertained; they consider that its accomplishment is easily attainable, and they confidently refer to the success which has attended the establishment of the Library and Museum as an augury of equal progress in the direction of art.

MUSEUM.

VISITORS.

The experiment of opening the Museum on Monday evenings during the winter months having proved successful as regards the number of visitors, and no injury to the specimens from the use of gas having been detected, as stated in the previous Annual Report, the same course has been pursued during the last winter. The attendance has been more than equal to that of the previous winter, as will be seen from the figures given below; no damage to the specimens has been detected, but in proof that the use of gas is not wholly free from injurious results, it may be stated that a hundred young salmon (a few days old) died after one Monday night's exhibition, scarcely any until the following Monday, night when sixty died; but *no* deaths took place on the next Monday when the Aquarium room was *not* lighted up.

The statistics are as follows :

	1863-4.	1864-5.
	25 Nights.	26 Nights.
Total evening Visitors,	23,868	24,361
Greatest attendance in one evening,	1,437	1,419
Smallest attendance in one evening,	395	570
Average per night,	954	937
Total day Visitors,	464,255	438,287
Average per day,	2,169	2,048
Total day and evening Visitors, ...	488,123	462,648

During the past year the interior of the building has been cleaned and painted and the great hall handsomely decorated. The expense of this, amounting to about £1,000, has been defrayed by a grant from the Borough Fund. The partial closing necessary for this purpose, has affected the number of visitors to the Museum as well as to the Library.

DONATIONS.

- A Blind Fish (*Amblyopsis spelæus*); Four Crayfish and Four Crickets from the Mammoth Caves of Kentucky, and Four Eggs of the Snapping Turtle (*Chelydra serpentina*); presented by Captain Anderson, Commander of the "Great Eastern."
- A Sea Mouse, a Gecko, &c., from South Australia; presented by F. Archer, Esq.
- Three Shells (*Venus exalbida*), from the Falkland Islands; presented by Captain Benjamin L. Atkinson.
- A very fine and extensive collection of Marine Specimens, made between Liverpool and Valparaiso; collected and presented by Captain F. E. Baker, ship "Nippon."
- A Collection of Native Implements of War from India; presented by Captain C. E. Bates, 16 M.N.I.
- A Fish (Cottus), and specimens of *Sertularia argentea* from Morecambe Bay; collected and presented by Mr. Alderman Bennett.
- Two Cuttle Fish (*Sepia*) from Scanderoon, and a Squid; presented by Captain Blacklock, s.s. "Arcadia."
- A Collection of Fishes and Reptiles, from Demerara; presented by G. P. Blank, Esq.
- Two dozen Roach and Dace, from the river Alt; presented by T. Weld Blundell, Esq.
- A Collection of Marine Specimens, from the Indian and Atlantic Oceans; presented by Captain Börlase.
- Specimens of the "Cockle-bed" and Carbonaceous Ironstone, from the Derbyshire Coal Measures; presented by Mr. James Bostock.
- The Dress and preserved Head of a woman of one of the Indian Tribes of the River Amazon; presented by G. W. Brocklehurst, Esq.
- A Silvery Fish (*Synodontes schal?*), from the Nile; presented by Captain Brown, s.s. "Agia Sofia."
- Two Cuttle Fish from Constantinople, a Fish from Gallipoli, Eight species of Fish, and Two Cephalopods from Smyrna; presented by Captain Browne, s.s. "Agia Sofia."
- The larva of a Death's Head Moth; presented by Mr. James Brownfield.
- One Thousand Specimens of Salmon Ova; presented by Dr. Buckland.
- A large Slab of Breccia, and a collection of Bones and Flint Instruments from the Dordogne Cave, near Bordeaux; presented by Messrs. Christy and Lartel, through Sir John Bowring, and C. T. Bowring, Esq.
- Seven Fossils, (*Sigillaria, neuropteris, &c.*), from the Coal Measures at Ripley, Derbyshire; presented by William Clarke, Esq.
- The Model of a Canadian Indian Canoe; presented by Mrs. James Cooper.
- A short Sun Fish (*Orthogoriscus mola*) taken near Garliestown, Wigtonshire; presented by Mr. Thomas Craig.

- One Hundred and Twenty Specimens of Sixty named species of *Achatinella* from the Sandwich Islands, and One Specimen of *Placunanomia rudis*; presented by Hugh Cuming, Esq.
- An Angler Fish (*Lophius piscatorius*) taken in the Mersey; presented by Mr. R. M. Corless.
- A Type Specimen of each of two new species of West African Crabs (*Telphusa Bayoniana* and *Sesarma angolensis*); presented by the Director of the Museum of Natural History of Lisbon.
- Twenty-three Stuffed Fish from St. Vincent's, West Indies, and One (*Lichia glauca*) from Teneriffe; collected and presented by Captain John Dyer, Barque "James Wilson."
- Two Internal Parasites from the stomach of a Shark; presented by C. J. English, Esq.
- A Collection of Marine and other Specimens, including One of the Parrot Fish (*Diodon*), and of the Flying Fish (*Exocoetus*); presented by C. J. English, Esq. (Collected by Captain Cameron, Ship "Staffordshire," during a voyage to the China Seas.)
- A Fossil Coal Plant from Burnley; presented by Mr. J. Ellison.
- A Specimen of *Lymnæa involuta* from Cromeglau Mountain, Killarney; collected and presented by W. Hill Evans, Esq.
- A Specimen of *Laiodon hirsutum*, and a Collection of Birds and Reptiles; presented by T. C. Eyton, Esq.
- Five live Trout and Twelve Crayfish from Windermere; a Collection of Fish, Crustacea, &c., from Mazatlan; Two Sucking Fish, and Two Bottles of Beetles; a rare Crab (*Ixa cylindrus*); the Head of a Baracuta Fish, a Ray, a Shark's Jaw, a Lizard, and Two large Starfish; presented by J. O. W. Fabert, Esq.
- Five Specimens of Three species of Snakes from West Africa; presented by O. F. Fallenstein, Esq.
- A Young Arctic Fox (*Vulpes lagopus*) killed at Litherland, near Liverpool, (escaped from an Iceland Ship); presented by Dr. Fitzpatrick.
- A living Specimen of a large Marine Worm (*Eunice gigantea*) from Birkenhead Shore; presented by Mr. Thomas Fleming.
- The Stuffed Head and Horns of an Indian Antelope (*Cervicapra bezoartica*); One Frog, Twenty-nine Specimens of Seventeen species of Fish, Twelve Prawns, One Intestinal Worm, One Jar of Barnacles, and One Mushroom Coral; collected and presented by Captain Fletcher, Ship "Florence Nightingale."
- A Collection of Fish, Reptiles, and Marine Invertebrata; collected and presented by Captain George Fletcher, Ship "Thomas Brocklebank."
- The larva of a Death's Head Moth from Hereford; presented by Mrs. George Fletcher.
- Two Young Turtle from the Island of Ascension; presented by Mr. Henry Fletcher.

- Sixteen Minerals and One Fossil; presented by Mrs. Foster.
- The larva of a Puss Moth from Huxton; presented by Mr. Fraser.
- Ten Reptiles from Bombay; presented by Captain Fry, Ship "Glenlyon."
- A Plaster Bust of the late Captain Speke; presented by the Sculptor, L. Gardie, Esq.
- Two Green Turtle, *Chelonia viridis*; presented by Mr. Gass.
- The Skin of an Aard Vark (*Orycteropus capensis*) from Natal, and an Owl from the interior of S. E. Africa; collected and presented by W. T. Gerard, Esq.
- A Collection of British Shells; presented by J. Glover, Esq.
- Thirty Specimens of Fourteen species of Fish, One Sepia, Two Loligos, and Four Isopods, from the Mediterranean; collected and presented by Mr. T. R. Gorst.
- Three Dirks in Case, taken from a Sepoy at Lucknow in 1857; presented by Colin Campbell Gray, Esq.
- Eight Specimens of Fossil Plants (*Platanus Hebridicus*) from Ardtun Head; Piece of an Oar perforated by Terecos after six days' immersion in salt water in Panama Bay, and Specimens of Pyrosomæ, &c.; presented by S. R. Graves, Esq., M.P.
- A Sponge found cast on the Shore at Seaforth, and Five Pullan Trout from Lough Melvin, near Enniskillen; presented by S. L. Gregson, Esq.
- A Collection of Fish from Calcutta; collected and presented by Captain Howe, Ship "Comorin."
- Two Stuffed Albatrosses; presented by Mr. Councillor P. H. Holt.
- The Model of an Indian Well; presented by Mrs. Higginson.
- The Nest of a Tree Wasp from Bromborough Pool Works; presented by W. H. Hatcher, Esq.
- A Collection of Fish, Birds, and Nests, &c., from Bathurst, River Gambia; collected and presented by J. Lewis Ingram, Esq.
- A Specimen of the Spinous Spider Crab from Cardigan Bay; presented by Mr. Isaac.
- A Water Snake (*Pelamis bicolor*) taken 300 Miles West of the Andaman Islands; presented by Captain Jinman.
- A Specimen of the Darter (*Plotus Anhinga*) from Guiana; presented by John Keates, Esq.
- A Fish, an Annelid, a Scorpion, and an Angulated Tortoise (*Chersina angulata*); presented by R. J. Keen, Esq.
- A large Coral (*Merulina*), and a Specimen of Neptune's Goblet; presented by Captain Kennedy, Ship "Dunkeld."
- A fine Specimen of the Vendace (*Coregonus albula*) from Derwentwater; presented by Mr. S. Ladyman.
- The Costume of a Parsee Gentleman; presented by D. M. Lalcaca, Esq.
- Fourteen Minerals and Fossils from Port Natal; presented by E. P. Lamport, Esq.
- A Marble Bust of R. Hutchinson, Esq., Ex-Mayor of Liverpool; presented by the Sculptor, G. A. Lawson, Esq.

Two Corals, and One Hundred Specimens of Twenty-four species of Shells, from Smyrna, &c., and Specimens of Starfishes, Sponges, &c., from the Coast of Asia Minor; presented by R. M'Andrew, Esq.

A Collection of Fish, &c.; collected and presented by Captain Mackay, Ship "Bedfordshire."

A Collection of West Indian Sponges, &c.; presented by T. March, Esq.

The larva of a Death's Head Moth from Bebington; presented by Joseph Mayer, Esq.

A Mandarin's Silk Coat from Canton; presented by Mrs. G. A. Mills.

A living Water Tortoise (*Emys picta*) and Eighteen living Fresh-water Fish from New York, together with an extensive Collection of Marine Specimens; presented by Captain Mortimer, Ship "America."

A fine Slab of *Didymograpsus Murchisoni* from the Llandeilo Flags of Aberdeiddy Bay, Pembrokeshire; collected and presented by G. H. Morton, Esq.

Ten Specimens of Four species of Fish, Pyrosomæ, &c.; collected and presented by Mr. Agostes Oberti.

A Porcupine Crab from Java (*Lithodes hystrix*); presented by Captain John A. Perry.

A Cuttle Fish from the Chincha Islands, and Two Gorgonias from Pisco, Coast of Peru; presented by Mr. John Pinnington.

A Lizard from Alexandria; presented by Captain Pirnie, s.s. "Amalia."

Two Snakes from the Cape of Good Hope; presented by Mrs. Rodgers.

An Ammonite; presented by E. M. Sheldon, Esq.

A Flying Fox (*Pteropus Edwardsii*) from Bombay; presented by Captain Sleigh, Ship "City of Agra."

Two Gorgonias (*Lophogorgia palma*), and Two Specimens of *Isis* from Port Elizabeth, South Africa; presented by Mr. Councillor A. C. Stewart.

The Jaws of a large Shark, from the Bell Buoy, Isle of France; presented by Frederick Taylor, Esq.

A Marble Bust of the late John Smith, Esq., of the *Liverpool Mercury*, (by Fontana); presented by the Testimonial Committee.

A Slab of Keuper Sandstone, from Storeton Quarry; presented by Mr. George Thomas.

A Portuguese Man-of-War, and a Collection of Marine Specimens collected between Liverpool and Bombay; presented by Captain Thompson, Ship "Admiral Lyons."

Three living Grey Mullett; presented by Mrs. P. F. Tinne.

Seven Cameos in different stages of execution; presented by Thomas Tooke, Esq.

An Asterias, a Cake Urchin, the Lining of the Mud Case of a *Lepidosiren annectens*, and the Spawn of a Mollusc (*Pyrula?*) Presented by Mr. J. S. Tyerman.

Six Specimens of Six Species of Birds from Lagos, and Sixteen Specimens of Fourteen species of Fish from Bossumprah River, Gold Coast; collected and presented by H. T. Ussher, Esq.

- A Crested Guinea Fowl from Lagos, and a Collection of Birds, Fish, Reptiles, Insects, &c., from West Africa; collected and presented by R. B. N. Walker, Esq.
- A Collection of Marine Specimens from Tenby; collected and presented by Walter Weld, Esq.
- A Collection of Marine Specimens—Fish, Crustacea, Mollusca and Polyzoa, made between Liverpool and Valparaiso, and a rare Fish (*Callorhynchus antarcticus*) from Valparaiso; presented by Captain Whiteway, Ship "Annie Cheshyre."
- A Piece of Tesselated Floor of a Roman Bath, found in Bridge-street, Chester; presented by George Williams, Esq.
- Specimens of *Chatopterus*, from Beaumaris; presented by John Williams, Esq.
- Six Sections of Molar Tooth of a Ceylon Elephant; presented by Mrs. Wilson.
- Three Shells, (*Mactra giganteum*, *Voluta Rossiana*, and *Bulimus Wrightii*); presented by Mr. B. M. Wright.

PURCHASES.

- A Gar-fish, from West Africa; an Amphisbæna and a Coral (*Merulina*); Four living Gold Fish, from China; an Eagle Ray (*Myliobatis?*); a Mona Monkey; Two Pinche Monkeys and a White-handed Monkey; a Negro Monkey (*Lagothrix Humboldtii*); a Coral (*Echinopora*); a King Crab; a White-thigh Colobus; a Sea Fan and Two Sponges, from the West Indies; Six Echini; a Tortoise, from Madras; a large Gorgonia, from Japan; a Potto, a Crocodile, a Zorilla and a Night Monkey, (*Nyctipithecus azaræ*); purchased of Mr. Cross.
- A Cast of Egg of *Dinornis robustus*, One Trigonina, Six Spirula, One Fistularia, and one Crustacean Claw from the chalk; purchased of Mr. Cutter, of Bath.
- One Dozen Anemones. Twelve Grey Mullet, and Twelve Nine-spined Sticklebacks; purchased for the Aquarium from Mr. E. Edwards.
- A Young Lump-sucker, a Sea Cucumber, and a Tritonia, from the Isle of Man; an Angler Fsh, caught near Coburg Dock; a Fork-beard, from the Isle of Man; a Three-bearded Rockling, from Hoylake; a Lump Fish, from Carnarvon; a great Fork-beard (*Phycis furcatus?*) taken near the Isle of Man, and a Wrasse; purchased of various Fishermen.
- A Squirrel Monkey (*Callithrix entomophagus*); a Brazilian Tree Porcupine, and an Opossum; purchased of Mr. W. Gass.
- Five Mounted Skeletons of Quadrupeds, Three of Birds, Twenty-nine of Fish, and One of Spalax; purchased of Mr. Edward Gerrard, jun.
- Two Dozen Anemones, for the Aquarium; purchased of Mr. Gold.
- A Collection of rare Shells, Corals, and Fossils; purchased at the sale of the Dennison Collection, per Rev. H. H. Higgins.
- Two Specimens of *Perameles fasciata*, and a Flying Opossum, from Launceston, Tasmania; purchased of Mr. Barnard Isaacson.

- A Sea Cucumber, Specimens of *Actinia parasitica*, *Dianthus*, &c., from Brixham; Two Eels; Three Water Snakes, and Two Land Snakes; Six Salamanders, Six Tree Frogs, Two Geckos, and Four Tortoises and Thirty Sea Anemones, for the Aquaria; purchased of Mr. G. H. King.
- The Skeleton of a Musk Rat; Two American Moles; a pair of rare Antelope Horns (*Tragelaphus*), from West Africa, and a skin of the Prairie Dog (*Spermophilus Ludovicianus*); purchased of Mr. Joseph Leyland.
- A Collection of Cirrhipeds; Twenty-two specimens of ten species of selected Shells; Seven Minerals; examples of 21 species of Pteropods and Heteropods; Fourteen other shells; One rare Coral (*Hippuris*), and Five Fossils; purchased of Mr. F. P. Marrat.
- Three Silurian, and one Gault Fossils; purchased of Rev. L. H. Mordacque.
- Two Marmozets, *Iacchus* (*Ædipus*?) purchased of Mr. W. Newby.
- A Collection of Fish and Crustacea, from the Pacific Ocean; purchased of W. Harper Pease, Esq.
- Two Storm Petrels (*Thalassidroma pelagica*); Two Nestlings and Two Eggs of ditto; purchased of Mr. Robert Reynolds.
- Seven Fossils, Two Casts of Fossils, from the Lower Lingula Flags of St. David's Head, Pembrokeshire, and Three Shells; purchased of Mr. G. B. Sowerby.
- Two Flying Fish, and One Minute Clupeoid; purchased of Mrs. Sparrow.
- A Roe Deer, a wild Swan, a Heron, a Quail, and a Merganser; purchased in St. John's Market.
- Two King Crabs and Three Water Tortoises; purchased of Mr. John Thornbury.
- Thirty-four Echinoderms, and One Coral, with Cirrhipeds; purchased of Mr. Robert Tyler.
- A Portugese Man-of-War; a large Caterpillar; and several Crabs and Insects from West Africa; purchased of Mr. Woods.
- Two Fossils, from the Isle of Wight (*Scaphites gigas* and *Crioceras Bowerbankii*); Three Specimens of Japanese Glass Coral (*Hyalonema mirabilis*); a Snake from South America; a South African Lizard; Nine Fish; One Blind-worm; Eight Crustacea and Two Cephalopods, from the Mediterranean; Three Australian, One Mediterranean, and one other Fish; Three Echini, and Twenty-one Specimens of fourteen Species of Shells &c.; purchased Mr. Bryce M. Wright.

EXCHANGES.

Important additions, by exchange, have been received during the year, among which the following deserves special mention:—

- A Cast of the extinct gigantic Armadillo *Glyptodon* (*Schistopleurum*) *typus*, from the Pleistocene of South America; received from the University of Rochester, New York, per Prof. H. A. Ward, for a Cast of the Great Fossil Tortoise.

- A Collection of Fish, Crustacea, &c., from the Victoria Museum, Bombay, for Specimens of British Fish, &c.
- A Splendid Collection of Beautifully-stuffed Fish, representing seventy-six species; also, one hundred and forty specimens of one hundred and eighteen species of Fish, in spirit; from the Madras Government Central Museum, per Captain Mitchell and A. C. Brisbane Neil, Esq., in exchange for British Fish, &c.

Exchanges and friendly relations have also been carried on with Professor Agassiz, Director of the Museum of Comparative Zoology, of Cambridge, Massachusetts; and have been commenced with the Society of Natural History, Boston, U.S.A., per S. H. Scudder, Custodian; with the University of Chicago, per Professor M'Chesney; with M'Gill College, Montreal, per Dr. Dawson, Principal; with the University of Breslau, per Professor Edward Grube; with the Imperial Museum of Zoology, Vienna, per H. Ritter Von Fraüenfeld; and with Trinity College, Dublin, per Rev. Professor Haughton, M.D.; and are in prospect with the Zoological Museum of the University of Copenhagen, per Otto A. L. Mörch.

The Museum has been visited and carefully inspected by all the gentlemen mentioned in the last paragraph, except Professor Agassiz and Mr. Otto Möirch, as well as by many of the foreign visitors to the recent Meeting of the British Association, in addition to those above named.

Some improved methods of mounting and displaying birds, have been commenced by the Curator, and carried out by Messrs. Reynolds, the Museum Taxidermists. Thus, a few cases of British birds have been prepared, showing the male, female, nest, eggs, and young—for several of which the Museum is indebted to Thomas West, Esq., of Ecclestone. In the Derby Collection, as complete family groups of the principal Game Birds as the Collection admits of, have been arranged together on a single stand; may thus be seen the male, female, and young, arranged so as to display them to the best advantage. By these means space is afforded for boldly-printed labels, containing a few notes, in addition to the name and county, and the whole becomes more intelligible, instructive, and pleasing.

Several of the above groups were exhibited before the British Association at Birmingham, and were highly approved, several of the most eminent British Ornithologists being present at the time of exhibition.

THOMAS J. MOORE, *Curator.*

LENDING LIBRARIES.

THE popularity of this part of the Institution still continues unimpaired. The readers and issues have both largely increased during the past twelve months; the former now number 8,569, being an increase of 685 over the previous year; the latter show an aggregate of 444,242 volumes, against 432,251 volumes lent last year, the increase being nearly 12,000 volumes. Of these eleven-twelfths belong to the higher classes of literature, and the remainder to fiction.

The subjoined Table shows the classification of the Works lent during the year 1865 :—

	Volumes.
Theology and Morals	9,918
Natural Philosophy	3,726
Natural History	2,982
Science and the Arts	*9,218
History and Biography	24,912
Topography and Antiquities	1,568
Geography and Travels	11,095
Miscellaneous Literature	41,877
Jurisprudence and Law	605
Commerce and Political Economy	1,495
Education and Language	3,997
Poetry and the Drama	5,060
Light Literature	326,950
Classical Literature	357
Embossed Books for the Blind	482
Total,	444,242

* This includes 2,788 Vols. of Music by eminent Composers.

Of the readers now using the Libraries, 21 per cent. are between 14 and 16 years of age; 26 per cent. between 16 and 20, and 53 per cent. above that age.

The classification of readers, according to employment, is shown in the following list :

Agents, Book-keepers, Clerks, Merchants' Apprentices, Office Boys, &c.,	2,500
Mechanics, Labourers, &c.,	2,230
Professional Men, Teachers, Students, School Boys, &c.	750
Shop-keepers and their Assistants, and other Miscellaneous Occupations	794
Business not ascertained, (principally female readers),	2,295
Total	8,569

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AS COMPARED V

No. of VOLS. IN EACH CLASS.		
	Sept.	Oct.
1819	801	869
693	330	365
798	238	307
1087	566	663
5245	2045	2231
222	98	104
2479	928	1218
5861	3437	3585
206	48	62
338	134	150
569	238	302
911	348	361
14197	26403	27797
84	24	23
212	52	46
34731	35690	38088

Composers.



LENDING LIBRARIES.

TABULAR STATEMENT OF BOOKS ISSUED FOR THE YEAR ENDING AUGUST 31ST, 1865, AS COMPARED WITH THE PREVIOUS YEAR, 1864.

CLASSIFICATION.	1865.													1864.																	
	MONTHLY ISSUES.													MONTHLY ISSUES.																	
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.							
Philology and Modern Languages	1623	754	813	809	877	867	807	1020	821	826	793	933	890	3618	547	1819	801	869	891	819	819	788	825	791	819	756	686	705	9485	7.2	
Natural Philosophy	793	311	325	344	366	334	283	421	297	288	229	193	298	3726	5	693	320	365	395	291	296	307	324	379	367	288	259	298	3890	3.4	
Natural History	842	285	231	363	255	277	210	218	198	213	231	217	213	2982	3.2	798	258	307	332	296	264	225	267	249	266	181	189	127	1912	3.6	
Science and the Arts	1249	598	711	772	776	569	21	302	71	519	72	711	847	18	75	167	566	677	612	713	623	679	81	624	710	687	37	37	7514	6.9	
History and Biography	3357	171	1979	1171	1133	279	21	1360	266	2115	195	1768	122	2332	1.6	5215	1045	211	1727	1216	1457	1635	242	1493	1895	173	1633	1792	21192	4	
Topography and Antiquities	52	-	116	118	131	116	102	124	11	167	18	124	111	178	67	122	18	124	16	88	76	100	110	82	89	97	9	77	1110	5	
Geography and Travels	2519	811	817	1639	1169	1162	111	979	78	896	99	565	88	1146	4.8	2179	128	1218	117	1169	91	257	986	927	391	848	129	851	11700	4.7	
Metaphysical Literature	3172	3379	3279	3172	3279	3172	3279	3172	3279	3172	3279	3172	3279	4177	6.7	3841	2367	2367	212	278	2366	3227	2167	2272	2368	3332	3166	2662	26719	6.6	
Jurisprudence and Law	219	15	71	71	67	13	66	11	11	11	17	17	3	65	2.8	268	18	12	61	54	13	35	16	31	38	23	41	49	511	2.4	
Commerce and Political Economy	361	162	123	120	125	117	118	115	111	121	129	125	59	1495	1.1	588	121	129	133	111	77	115	127	129	129	129	91	97	1081	4	
Education and Language	642	312	369	357	377	291	315	373	383	439	297	173	268	3397	6.6	549	138	162	238	177	131	122	211	228	179	218	219	261	276	4.9	
Printing and the Press	972	328	339	110	473	465	486	333	126	475	415	333	417	3669	5.2	911	18	161	223	164	278	167	315	319	288	278	167	169	169	3827	4.2
Literature	14716	26287	28224	29533	29299	27718	26449	33509	26691	26888	26163	19689	25367	327950	22.2	11197	20163	27797	2688	27037	17193	29667	30521	27119	24173	19119	17971	27119	15667	22.9	
Classical Literature	120	27	24	31	27	39	22	29	33	26	37	37	27	337	3	81	24	23	23	26	17	14	24	19	19	29	19	29	249	3.4	
Embossed Books for the Blind	212	31	35	37	42	31	16	39	15	66	48	41	45	482	2.2	212	32	14	38	19	34	27	15	13	29	35	29	37	449	2	
Totals	32272	33143	37685	39601	40113	28274	36723	42291	36486	36717	31959	31851	31385	111212	12.2	31721	37690	38983	33739	36119	33495	37394	39885	36328	33505	31706	32962	11175	1271	12.4	

* This includes 2788 Vols. of Music by eminent Composers.

There have been 1,551 Volumes added to the Library, classified in the proportion of one-third to light literature, and two-thirds to more useful information. The total number of volumes in the Lending Libraries, is as follows:—

North	17,938 vols.
South	18,704 „
Total	<u>36,642</u>

During the year the books at both Branches have been called in, examined, and collated with the Catalogue, the condition of every book being thus fully ascertained. Many works were found worn out and unfit for further use; of these the more popular have been replaced and the remainder removed from the shelves.

A Reader at the South Branch, who recently obtained the degree of B.A. of the University of London, expresses himself very deeply indebted to the Libraries for the assistance afforded by them while preparing for the College examinations.

A New Supplement has been published to the South Library Catalogue, containing all the recent additions.

OCCUPATIONS OF READERS,

With the Number of Borrowers under each head.

	North.	South.	Total
Accountants, Book-keepers, and Clerks	859	866	1725
Agents	35	40	75
Actors and Actresses	—	6	6
Architects	—	12	12
Artists	3	14	17
Apprentices, principally Merchants'	120	160	280
Bakers	24	26	50
Barmen	—	5	5
Blacking Manufacturers	—	2	2
Block and Mast Makers	12	14	26
Boiler Makers	18	15	33
Bookbinders	20	13	33
Booksellers and Stationers	2	15	17
Boot and Shoe Makers	32	18	50
Boys, Office	198	203	401
School	166	208	374
Shop	36	26	62
Brassfounders and Finishers	21	8	29
Brewers	—	6	6
Bridewell-keepers	—	3	3
Bricklayers	9	5	14
Brushmakers	3	4	7
Butchers	11	16	27
Carters and Car-drivers	14	4	18
Carvers and Gilders	15	14	29
Checkers, Omnibus	—	6	6
Chemists and Druggists	24	26	50
Cigar Makers	—	2	2
Clergymen and Ministers	12	13	25
Coach Builders	9	4	13
Trimmers	—	2	2
Coal Dealers	—	2	2
Collectors	—	7	7
Confectioners	7	5	12
Coopers	27	16	43
Curriers	8	—	8
Dairymen	—	4	4
Dentists	—	7	7
Dock Gatemen	8	4	12

	North.	South.	Total.
Drapers	10	62	72
Draughtsmen	3	9	12
Drysalters	—	3	3
Dyers	4	1	5
Engravers	4	8	12
Farriers	2	2	4
Fitters	23	6	29
Flour Dealers	—	8	18
French Polishers	5	2	7
Gardeners	—	4	4
Galvanizers	—	3	3
Gas Fitters	—	6	6
Goldsmiths and Silversmiths	—	11	11
Grooms	—	2	2
Grocers	77	45	122
Guards, Railway	3	—	3
Hairdressers	17	7	24
Hatters	—	7	7
Hosiers	12	12	24
Ironfounders	—	2	2
Ironmongers	13	18	31
Joiners and Cabinet Makers	101	107	208
Labourers	70	38	108
Letter Carriers	13	16	29
Librarians	—	2	2
Lodging House Keepers	—	6	6
Mariners	30	18	48
Masons	20	19	39
Millers	15	6	21
Milliners and Dressmakers	41	43	84
Millwrights and Engineers	66	70	136
Model Makers	—	5	5
Moulders, Iron	18	11	29
Musicians	24	11	35
Nurses	—	3	3
Opticians	6	2	8
Painters and Plumbers	82	59	141
Paper Hangers	4	—	4
Pattern Makers	6	3	9
Paviors	—	2	2
Pawnbrokers	34	22	56
Piano-Forte Tuners	—	2	2
Pilots	—	2	2
Police Officers	12	9	21

	North.	South.	Total
Porters	147	43	190
Printers and Compositors...	67	56	123
Publicans	21	13	34
Riggers	6	10	16
Rope Makers	—	2	2
Saddlers	11	7	18
Sailmakers	12	22	34
Sawyers	—	2	2
Scripture Readers	10	13	23
Sculptors	—	3	3
Servants	—	11	11
Ship Keepers	—	2	2
Ship Store Dealers...	—	7	7
Shipwrights	20	95	115
Shop Keepers, (various) ..	—	18	18
Shopmen	15	19	34
Slaters and Plasterers	9	7	16
Smiths	51	54	105
Soap Boilers	5	2	7
Soldiers	3	3	6
Solicitors	—	3	3
Stevedores	—	3	3
Students	—	6	6
Sugar Refiners	5	1	6
Surgeons	7	7	14
Surveyors	4	—	4
Tailors	62	23	85
Tallow Chandlers	—	2	2
Teachers, (various)	111	90	201
Tea Dealers	—	2	2
Timekeepers	—	5	5
Tin-Plate Workers	17	12	29
Tobacconists	—	7	7
Travellers	—	9	9
Turners, Wood	—	6	6
Upholsterers	7	22	29
Warehousemen	62	38	100
Watchmakers, Jewellers, and Finishers	41	35	76
Weighers	—	6	6
Wheelwrights	9	4	13
Wire-workers	1	1	2
Miscellaneous	—	—	17

OCCUPATIONS OF READERS.

Arranged according to Number.

	North.	South.	Total
Accountants, Book-keepers, and Clerks	859	866	1725
Boys, Office	198	203	401
School	166	208	374
Apprentices, (principally Merchants')	120	150	280
Joiners and Cabinet Makers	101	107	208
Teachers (various)	111	90	201
Porters	147	43	190
Painters and Plumbers	82	59	141
Millwrights and Engineers	66	70	136
Printers and Compositors	67	56	123
Grocers	77	45	122
Shipwrights	20	95	115
Labourers	70	38	108
Smiths	51	54	105
Warehousemen	62	38	100
Tailors	62	23	85
Milliners and Dressmakers	41	43	84
Watchmakers, Jewellers, and Finishers	41	35	76
Agents	35	40	75
Drapers	10	62	72
Boys, Shop	36	26	62
Pawnbrokers	34	22	56
Bakers	24	26	50
Boot and Shoe Makers	32	18	50
Chemists and Druggists	24	26	50
Mariners	30	18	48
Coopers	27	16	43
Masons	20	19	39
Musicians	24	11	35
Publicans	21	13	34
Sailmakers	12	22	34
Shopmen	15	19	34
Boiler Makers	18	15	33
Bookbinders	20	13	33
Ironmongers	13	18	31
Brassfounders and Finishers	21	8	29

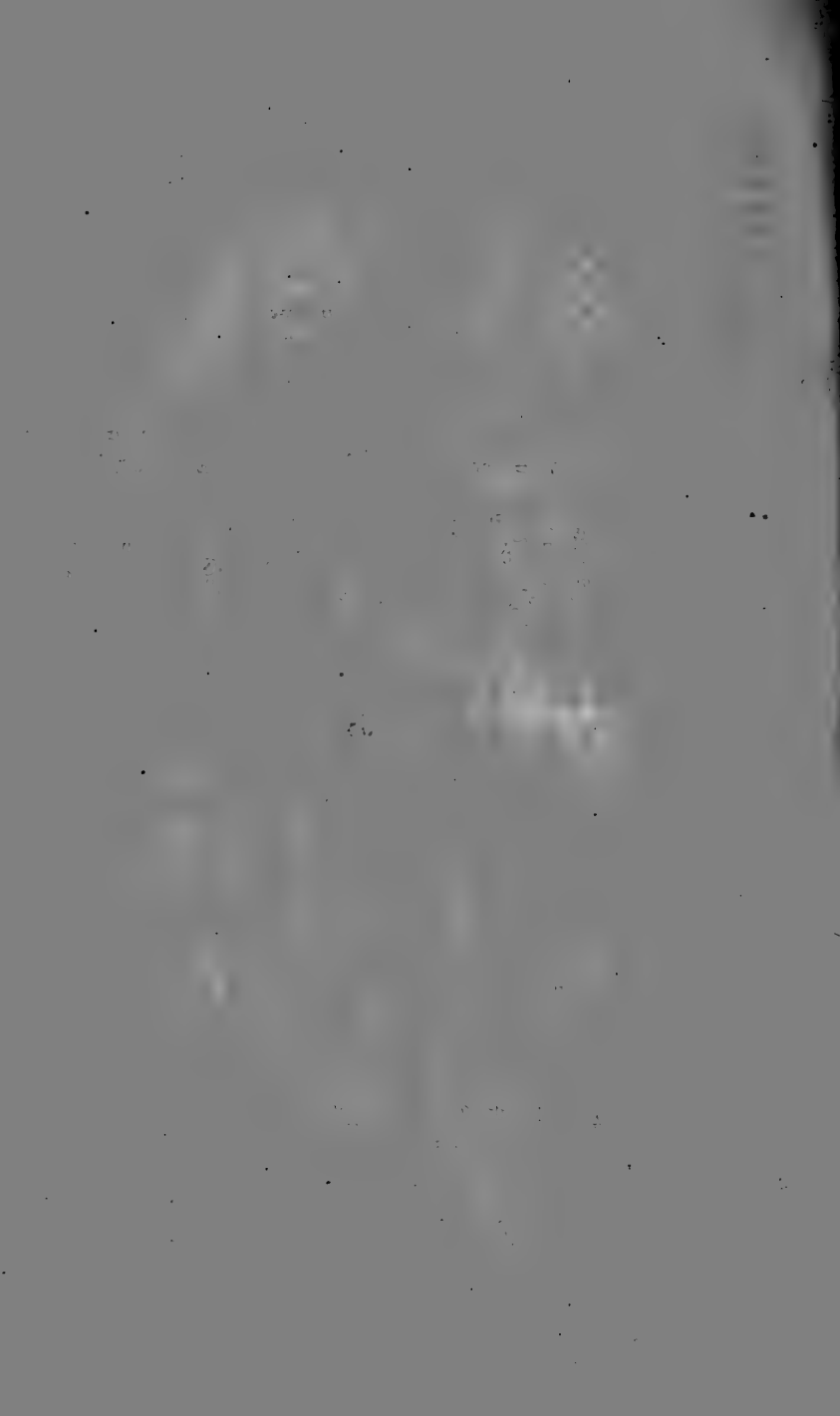
	North	South	Total
Carvers and Gilders	15	14	29
Fitters	13	6	29
Letter Carriers	13	16	29
Iron Moulders	18	11	29
Tin Plate Workers	17	12	29
Upholsterers	7	22	29
Butchers	11	16	27
Clergymen and Ministers	12	13	25
Block Makers	12	14	26
Hair Dressers	17	7	24
Hosiers	12	12	24
Scripture Readers...	10	13	23
Millers	15	6	21
Police Officers	12	9	21
Carters and Car Drivers ..	14	4	18
Saddlers	11	7	18
Shopkeepers	9	9	18
Artists	3	14	17
Booksellers and Stationers	2	15	17
Riggers	6	10	16
Slaters and Plasterers	9	7	16
Bricklayers...	9	5	14
Surgeons	7	7	14
Wheelwrights	9	4	13
Coach Builders	9	4	13
Architects	—	12	12
Confectioners	7	5	12
Dock Gatemen	8	4	12
Draughtsmen	3	9	12
Engravers	4	8	12
Silversmiths	—	11	11
Servants	—	11	11
Pattern Makers	6	3	9
Travellers	—	9	9
Curriers	8	—	8
Opticians	6	2	8
Flour Dealers	—	8	8
Brushmakers	3	4	7
Collectors ..	—	7	7
Dentists	—	7	7
French Polishers	5	2	7
Hatters	—	7	7
Ship Store Dealers...	—	7	7
Soap Boilers	5	2	7
Tobacconists	—	7	7
Actors and Actresses	—	6	6
Brewers	—	6	6
Checkers, Omnibus	—	6	6
Gas Fitters...	—	6	6
Lodging House Keepers	—	6	6
Soldiers	3	3	6
Students	—	6	6

	North.	South.	Total.
Sugar Refiners	5	1	6
Turners	—	6	6
Weighers	—	6	6
Barmen	—	5	5
Dyers	4	1	5
Model Makers	—	5	5
Timekeepers	—	5	5
Miscellaneous	—	—	94
Business not ascertained (principally females)	1010	1285	2295
Female Readers	839	1083	1922

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15 JUL 1898













FOURTEENTH ANNUAL REPORT
OF THE COMMITTEE OF THE
FREE PUBLIC LIBRARY,
MUSEUM,
AND
GALLERY OF ARTS,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL. 1866.



LIVERPOOL:
PRINTED BY GEORGE M'CORQUODALE & CO
1866.



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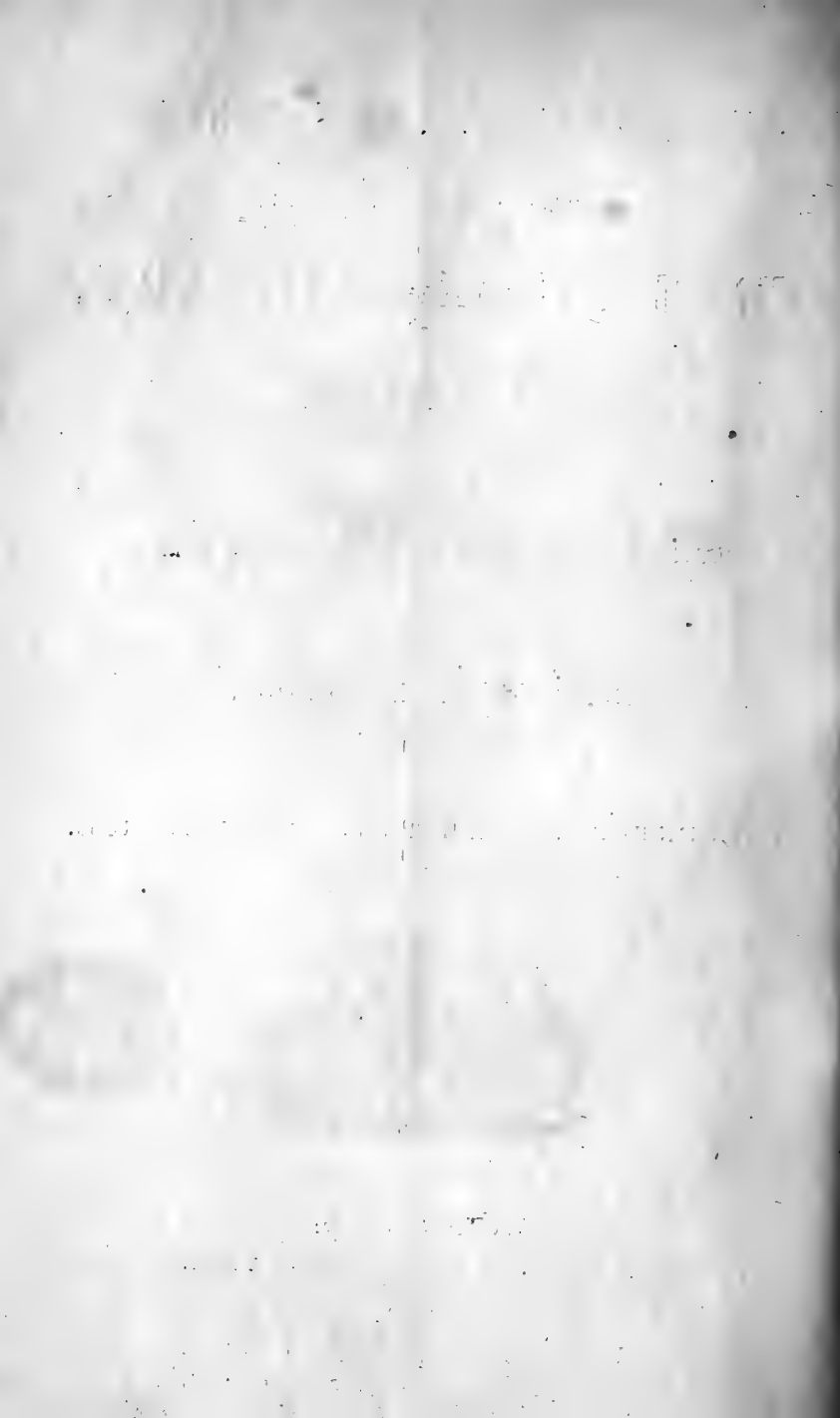
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OFFICERS AND COMMITTEE

FOR THE YEARS 1865-66.

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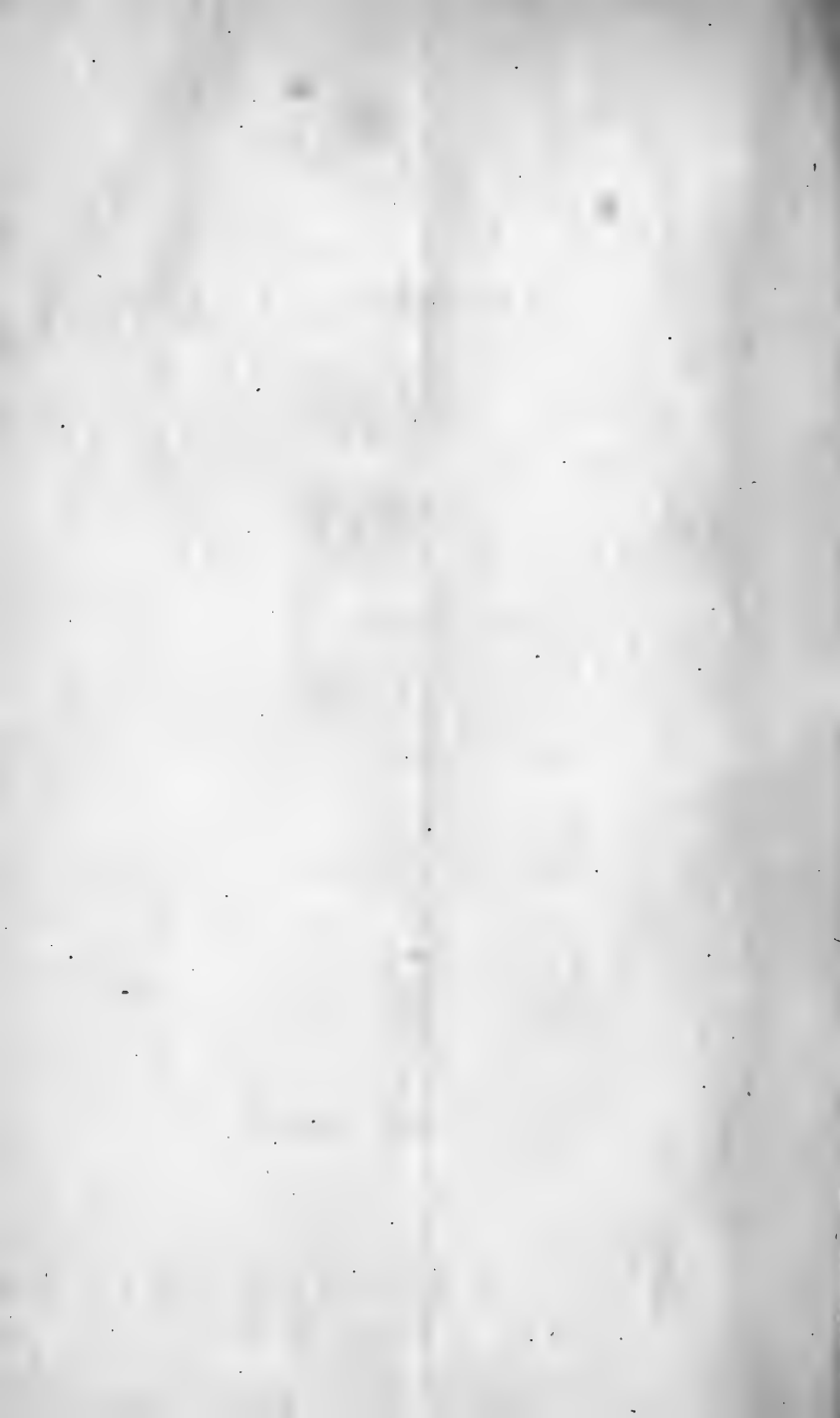
GEORGE HUDSON.

Superintendent of the Lending Libraries.

PETER COWELL.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

In presenting the Fourteenth Annual Report of the FREE PUBLIC LIBRARY, MUSEUM, AND GALLERY OF ARTS, the Committee have to record a period of continued usefulness and success. The Institution is quietly and unostentatiously effecting its object in supplying the intellectual wants of the community, and aiding in the great purpose of education and progress. The Statistics of the several Departments are as follows:—

REFERENCE LIBRARY.

During the past year the average number of Books issued and returned has been 1,662 per day, the yearly circulation numbering 472,102 volumes, against 420,127 volumes during the previous year, being the greatest number issued in one year since the establishment of the Library.

The following is a classified List of the Books issued:—

CLASSIFICATION.	VOLUMES.	DAILY AVERAGE ABOUT.
Theology, Morals and Metaphysics.....	14,638	51
Natural Philosophy, Astronomy, Chemistry, &c.	13,915	49
Natural History, Botany, Mineralogy, &c.....	5,557	20
Science and the Arts, Architecture, Painting, Music, &c.	26,185	92
History and Biography.....	29,803	195
Topography and Antiquities	7,250	26
Geography, Voyages, and Travels	24,774	87
Miscellaneous Literature	126,875	447
Jurisprudence, Law, and Politics	4,231	15
Commerce, Political Economy, & Social Statistics	3,391	12
Education, Logic, Language, &c.	10,209	36
Poetry and Dramatic Literature	18,802	66
Works of Imagination	176,164	620
Classical Literature	3,131	11
Heraldry, Encyclopædias, and Works of Reference	7,177	25
	<u>472,102</u>	<u>1,662</u>

During the year 2,096 volumes of books have been added to the Library, viz., 1,880 by purchase, 108 from the Commissioners of Patents, Parliamentary Papers 65, and 43 by donation, under the following heads:—

CLASSIFICATION.	1865.	Additions.	1866.
Theology, Morals, and Metaphysics	3,221	255	3,476
Natural Philosophy, Astronomy, &c.	1,076	35	1,111
Natural History, Botany, Mineralogy, &c..	2,120	98	2,218
Science and the Arts, Architecture, &c. ...	4,136	262	4,398
History and Biography	6,313	252	6,565
Topography and Antiquities	1,863	104	1,967
Geography, Voyages, and Travels	2,790	87	2,877
Miscellaneous Literature.....	7,136	472	7,608
Jurisprudence, Law, and Politics	3,535	97	3,632
Commerce and Social Statistics	378	18	396
Education, Logic, Language, &c.	587	41	628
Poetry and Dramatic Literature	1,829	78	1,907
Works of Imagination.....	4,622	167	4,789
Classical Literature	263	29	292
Heraldry, Encyclopædias, and Works of Reference	1,296	101	1,397
	41,165	2,096	43,261

The subject of a new Catalogue has occupied the attention of the Committee. The present Catalogue was printed six years ago, since which time the additions have been embodied in two biennial supplements. The time having arrived when either an additional supplement must be issued, or an entirely new Catalogue prepared, the Committee, after much consideration, have chosen the latter alternative. The present classified Catalogue was commenced in the infancy of the Library, rather as an experiment than as a settled and final arrangement. It is believed that an alphabetical system, comprising both authors and subjects, will much facilitate the researches of readers, and contribute to the usefulness of the Library. Steps have been taken for proceeding with the Catalogue at once.

The Lectures on Scientific subjects, mentioned in the last Report as being commenced, were so far successful as to induce the Committee to repeat the experiment during the ensuing winter. The courses intended are as follows:—

TWELVE LECTURES ON ZOOLOGY,

WITH SPECIAL REFERENCE TO SPECIMENS IN THE MUSEUM. BY MR. THOMAS J. MOORE, KEEPER OF THE MUSEUM.

- 1.—Thursday, January 3rd, 1867.—ON THE LOWEST FORMS OF ANIMAL LIFE.—Animalcules, Sponges, &c.
- 2.—Thursday, January 10th.—ON ZOOPHYTES AND CORALS.—The red coral of commerce; coral reefs; fresh-water polyp or hydra; sea anemones; sea-fans, &c. Medusæ or jelly-fishes, Portuguese man-of-war, &c. .

- 3.—Thursday, January 17th.—**MOLLUSCA OR SHELLS.**—Nervous, circulating, respiratory and locomotive organs of molluscs in general. Sea-mat; lamp-shells; fresh water and marine mussels; formation of pearls. The oyster; snails, slugs, periwinkles, limpets and whelks. Development of the young. Cuttle-fishes and squids; paper nautilus and pearly nautilus; shipworm and pholas.
- 4.—Thursday, January 24th.—**STARFISHES, WORMS, AND CRABS.**—Starfishes and sea-urchins; their structure, habits, and metamorphoses. Sea-cucumber and trepang. The earth-worm and leech. Intestinal worms; their structure and mode of entrance into animal bodies. Crustacea (lobsters, cray-fish and crabs), barnacles, and acorn shells; their changes and mode of growth.
- 5.—Thursday, January 31st.—**INSECTS AND THEIR ALLIES.**—Spiders, scorpions, and centipedes. Insects; their mode of breathing compared with that of spiders and crustaceans. Structure of wings. Parts of the mouth in beetles, bees, butterflies, &c. Structure of the eyes, nature of stings, saws and ovipositors. The blistering beetle, silk-moths, bees, cochineal insect; plant-lice, house-fly, locusts, &c. Metamorphoses of Insects.
- 6 and 7.—Thursdays, February 7th and 14th.—**FISHES.**—Circulation, respiration, and development. Their dentition. Natural and economical history of the lamprey, sprat, sardine, herring, pilchard, salmon, trout, eel, cod, haddock, sole, flounder, turbot, mackerel, tunny, sturgeon, skate, ray, dog-fish and shark. Electrical fishes. Fishes capable of living in air, and other remarkable fishes. Fossil fishes.
- 8.—Thursday, February 21st.—**AMPHIBIA AND REPTILES.**—Salamanders, newts, and frogs. Their metamorphoses. Circulatory and respiratory organs of reptiles as distinguished from those of fishes and amphibia. Snakes, lizards, crocodiles, turtles and tortoises. Footprints at Storeton; Ichthyosaurus, Plesiosaurus, and other extinct forms.
- 9 and 10.—Thursdays, February 28th and March 7th.—**BIRDS.**—Organs of locomotion, respiration, voice and circulation in birds. Structure and growth of feathers. Development of the egg. Migration and instincts of birds. Origin of domestic birds. Birds of prey; perching birds; climbing birds; game birds; wading and swimming birds. Dinornis, dodo and other extinct birds.
- 11 and 12.—Thursdays, March 14th and 21st.—**MAMMALS.**—Organs of respiration and circulation in mammals. Nutrition of young. Teeth of mammals. Ivory and fur-producing mammals. Hibernation and migration. Echidna and duck-mole. Pouched mammals or marsupials. Rodents or gnawing mammals, beaver, hare, rat; Bats and insect-eating mammals, moles, and hedgehogs; sloths and armadillos; cetaceans (whales, porpoises); sea-cows; hoofed mammals, elephant, tapir, horse, hog; ruminating mammals; beasts of prey; quadrumana or four-handed mammals, apes, orang and gorilla. Man. Fossil Mammals.

TEN LECTURES ON GEOLOGY AND MINING.

By E. H. BIRKENHEAD, D.Sc., F.G.S., MASTER OF THE LIVERPOOL SCHOOL OF SCIENCE,
AND OF THE WIGAN SCHOOL OF MINES. LECTURER ON CHEMISTRY AND TOXICOLOGY
AT THE LIVERPOOL ROYAL INFIRMARY SCHOOL OF MEDICINE.

- 1.—Friday, January 4th.—**GEOLOGICAL CHANGES NOW IN PROGRESS.** Part I.—Uniformity between ancient and modern Geological changes. The chief of those now proceeding. Means by which rocks are broken down and prepared for removal. Action of running water. Transport of material. Waterfalls. Formation of Deltas. Glaciers and Icebergs. Work done by the sea.

- 2.—Friday, January 11th.—**GEOLOGICAL CHANGES NOW IN PROGRESS. Part II.**—Dissolving of rock materials by water. The work of animals and plants. Limestones and coral reefs. The internal heat of the earth. Volcanoes. Earthquakes, Rising and sinking of land. Changes proceeding beneath the earth's surface.
- 3.—Friday, January 18th.—**GEOLOGICAL CHANGES OF FORMER AGES. Part I.**—The relative age of rocks. The chief kinds. The series of formations. Geological time. False bedding. Fresh-water and marine beds: how distinguished. Consolidation of beds. Cleavage. Fossilization. Disturbance. Inclination and contortion of beds.
- 4.—January 25th.—**GEOLOGICAL CHANGES OF FORMER AGES. Part II.**—Disturbance (*continued*). Production of faults. Formation of mountains, valleys, plains, and lakes. Denudation or removal of rock masses. Inland cliffs. Unconformity. Intrusions of igneous rock. Volcanic action of former ages.
- 5.—Friday, February 1st.—**THE PALEOZOIC OR OLDER FORMATIONS.**—The oldest known rocks. The Lawrentian of the Hebrides. The Cambrian of Wales. Slate. The Silurian of Shropshire. Welsh volcanoes. Salopian coral reefs. The Devonian and Old Red Sandstone. The Carboniferous Limestone of Lancashire. The Coal formation of Wigan. Origin of coal. The Permian of Manchester.
- 6.—Friday, February 8th.—**THE NEOZOIC OR NEWER FORMATIONS.**—The Trias or New Red Sandstone of Liverpool. The Great Salt Lake of Cheshire. The Jurassic of Yorkshire. Clays, limestones, and coal-beds. Fullers' earth. Building stones. The Wealden of Sussex. The ancient Delta. The Cretaceous of Flamborough. Origin of chalk and flint. The Eocene of London. The Miocene of Mull. The Pliocene of Suffolk. The Drift of Blackpool. The Glacial epoch. The Recent period.
- 7.—Friday, February 15th.—**THE SEARCH FOR MINERAL DEPOSITS.**—Mode in which useful minerals occur. Beds of coal, ironstone, rock-salt, slate, building-stone, &c. Veins or lodes of copper, tin, lead, silver, &c. Irregular deposits. The actual search. Boring for coal, &c. Shodding. The divining rod.
- 8.—Friday, February 22nd.—**MINING OPERATIONS IN GENERAL.**—Modes of "breaking ground." Tools used. Blasting. Application of electricity. Sinking of shafts. Driving of levels. Means of ascent and descent.
- 9.—Friday, March 1st.—**WORKING OF MINES.**—The extraction of metallic ores. "Stoping." Systems of payment. Working of coal and ironstone. The "pillar" system. The "long wall" system. The exploitation of beds of exceptional thickness.
- 10.—Friday, March 8th.—**THE VENTILATION AND LIGHTING OF MINES.**—Necessity for ventilation. Noxious gases. Fire-damp. Explosions. Natural and artificial ventilation. Use of furnaces and machines. Distribution of air in the mine. Open lights. Safety lamps. Education of the miner.

TEN LECTURES ON THE NON-METALLIC ELEMENTS.

ILLUSTRATED WITH DIAGRAMS AND EXPERIMENTS.—BY MR. NEWTON SAMUELSON, F.C.S.,
CERTIFICATED TEACHER OF CHEMISTRY.

- 1.—Monday, January 7th.—The general Principles of Chemical Philosophy.
- 2.—Monday, January 14th.—Laws of Combination. Combining Weights and Chemical Equivalents.
- 3.—Monday, January 21st.—Combining Volumes. Chemical Symbols and their use in the Explanation of Chemical Changes. The Atomic Theory. The Theory of Salts.

- 4.—Monday, January 28th.—The Non-Metallic Elements. Oxygen. Combustion.
- 5.—Monday, February 4th.—Hydrogen. Water. Chemical Composition and Properties. Adaptation for Domestic Purposes. Hardness, permanent and temporary. Nitrogen.
- 6.—Monday, February 11th.—Nitrous Oxide. Nitric Oxide. Nitric Acid. Nitrification. Ammonia. Carbon. Process of Carbonization. Carbonic Oxide.
- 7.—Monday, February 18th.—Carbonic Acid. Marsh Gas. Olefiant Gas. Manufacture of Coal Gas. Sulphur. Sulphurous Acid. Sulphuric Acid. Sulphuretted Hydrogen. Bisulphide of Carbon.
- 8.—Monday, February 25th.—Chlorine. Hypochlorous Acid. Bleaching Agents and Theory of Bleaching. Chloric Acid and Perchloric Acid. Chloride of Nitrogen. Chlorides of Carbon.
- 9.—Monday, March 4th.—Bromine. Bromic Acid and Hydrobromic Acid. Iodine. Iodic Acid, Periodic Acid, and Hydriodic Acid. Fluorine. Hydrofluoric Acid.
- 10.—Monday, March 11th.—Phosphorus. Hypophosphorous Acid. Phosphorous Acid. The several modifications of Phosphoric Acid. Ordinary phosphoric, pyrophosphoric, and metaphosphoric Acid. Theory of Polybasic Acids. Phosphoretted Hydrogen. Chlorides of Phosphorus. Manufacture of Matches. Boron and Boracic Acid. Silicium and Silicic Acid.

FOUR LECTURES ON PRACTICAL PERSPECTIVE.

BY MR. W. J. BISHOP, HEAD MASTER OF THE LIVERPOOL SCHOOL OF ART,
NORTH DISTRICT.

- 1.—Wednesday, January 9th.—THE SCIENCE OF PERSPECTIVE EXPLAINED.—Mechanical contrivance proving the same. Original, picture and directing planes. Points of sight, distance and station. Parallel Perspective.
- 2.—Wednesday, January 23rd.—Why are the representations of objects when elevated not diminished in proportion to their increased distance from the eye of the spectator? Oblique Perspective. Value of measuring points and different methods of producing the same results.
- 3.—Wednesday, February 6th.—GEOMETRICAL OBJECTS.—Prisms, pyramids, cylinders, cones and arches of different constructions considered. Inclined Planes and accidental vanishing points.
- 4.—Wednesday, February 20th.—Rules for Shadows, either sunshine or candle-light. Reflections on water and polished surfaces. Aerial Perspective not subject to the same laws as Linear. Conclusion.

FOUR LECTURES ON THE HISTORY AND PRACTICE OF DECORATIVE ART,

BY MR. JOHN FINNIE, HEAD MASTER OF THE LIVERPOOL SCHOOL OF ART,
SOUTH DISTRICT.

- 1.—Wednesday, January 16th.—ANCIENT ORNAMENT.—Egyptian, Greek, Roman, from B.C. 1700 to A.D. 300.
- 2.—Wednesday, January 30th.—MEDIEVAL OR CHRISTIAN ART, A.D. 200 to A.D. 1200.
- 3.—Wednesday, February 13th.—MODERN.—The Renaissance, Elizabethan, Louis Quatorze, &c., A.D. 1200 to A.D. 1700.
- 4.—Wednesday, February 27th.—DECLINE OF THE HISTORIC STYLES.—The principles which regulate the application of Ornament—1st To Architecture. 2nd To Walls and other Flat Surfaces. 3rd To Textile Fabrics.

GALLERY OF ARTS.

It has not been found possible hitherto to proceed with the proposed building for this purpose. In order to obtain a suitable site in connexion with the present building it will be necessary to purchase several blocks of houses occupying a portion of the land. Power to accomplish this is proposed to be taken in the Improvement Act about to be applied for in the ensuing session of Parliament.

MUSEUM.

STATISTICS.

	1864-5.	1865-6	Increase in 1865-6.	Decrease in 1866-5.
Day Visitors	438,287	260,117	.....	78,170
Evening do	24,361	25,479	1,118	.....
Total	462,648	385,596		
Average of Day Visitors	2,048	1,818	.....	230
Average of Evening Visitors ...	937	{ 26 Nights	1,061	{ 24 Nights 124
Greatest attendance in one } Evening..... }	1419	1342	.....	.....
Smallest ditto	570	783	.....	.....

It will be seen from the above figures that the Evening visitors in the past year exceeded those in the previous year; but that there is a considerable falling off in the Day visitors, amounting to 78,170. That this may be, in some degree at least, accounted for by the prevalence of cholera in Liverpool, is rendered exceedingly probable by the following fact:—The Members of the Mechanics' Institute at Cleckheaton, Yorkshire, have an annual Autumn Excursion to Liverpool. In 1865 (September 1) they visited the Museum by special arrangement, and the numbers were 1,270. In 1866 (August 31) they did the same, and the numbers were 48 only; the falling off on this occasion being distinctly attributed by those who came, to the fact of cholera raging in Liverpool. The wet weather during the autumn has also doubtless had a depressing influence upon the number of visitors.

Their Royal Highnesses the Prince and Princess of Wales and suite inspected the Library and Museum, with the Earl of Derby, on their visit to Liverpool, October 31, 1865.

DONATIONS.

- Eight Shells (*Scala, Enida, Adeorbis, &c.*), presented by H. A. Adams, Esq.
- A large slab of Wenlock Shale, containing remains of Encrinites (*Cyathocrinus*), from a quarry near Llanrwst, collected and presented by F. Archer, junr., Esq.
- The Skeleton of a Hornbill, from Fitkorie, N. W. India, collected and presented by Samuel Archer, Esq.
- Fifteen specimens of the Piper Sea-Urchin (*Cidaris papillata*), from Shetland, presented by the Rev. A. Baillie.
- A fine collection of Marine Specimens, obtained between Liverpool and San Francisco, contained in 150 bottles, collected and presented by Captain F. E. Baker, Ship "Nippon."
- Two Snakes and a specimen of the Sea Horse (*Hippocampus*), from Rio Grande del Norte, Brazil, presented by Mr. John Barker.
- Twelve bottles of Fish, Crustacea, &c., collected and presented by Mr. W. H. Bates, Ship "Dinapore."
- A green-headed Tanager (*Calliste tricolor*), presented by Rev. Dr. Baylee.
- A collection of Marine Specimens, including several species of Comatulæ, Echini, Sea Snakes, a Scabbard Fish, large Sucking Fish, a Neptune's Goblet, &c., collected between China and Liverpool, and presented by Captain Berry, Ship "Richard Cobden."
- A Burmese Racing Boat, and a Bow and Arrows from Tientsin, presented by Robert Bisset, Esq.
- A Shark's jaw, the under jaw of a Cetacean, and three Squids used as bait in the Newfoundland Cod Fishery, presented by Mr. Councillor C. T. Bowring.
- A collection of Fish from Malta; specimens of 10 species of Fish, 1 Starfish and 2 Locusts; 25 specimens of 8 species of Fish and 2 Cephalopods, from Malta, and 1 Fish from Beyrout; collected and presented by Captain Browne, S.S. "Agia Sofia."
- Two young specimens of the Bony Gar-Pike (*Lepidosteus*), two other Fish, the tongue of a Flamingo, and four Crustaceans, presented by Dr. Frank Buckland.
- Twenty-three Fish, from Cochin and Madras, presented by Surgeon Francis Day, Madras Army.
- Two Pipe Fish and two Sponges, presented by Charles Driffield, Esq.
- A collection of Marine Specimens, 20 Birds, and an Iguana, from Paraiba and Brass River, collected and presented by Captain J. E. Dyer, Barque "James Wilson."
- The model of a Skew Bridge, made and presented by Mr. John Dyer.
- Two specimens of Charr, from Windermere; a fine specimen of the Bony Gar-Pike (*Lepidosteus*), and an Osprey, from Mexico, presented by J. O. W. Fabert, Esq.
- A Mongoose (*Herpestes*), from Calcutta; Insects from the same, and Marine Specimens collected between Liverpool and Calcutta, including a rare Squid (*Loligopsis*); two Buffalo Skulls, and a bottle of Reptiles from Calcutta, and two bottles of Marine Specimens (*Physalia, &c.*), collected and presented by Captain George Fletcher, Ship "Sumatra."

- Twelve plates of Baleen, from a young Fin-Whale (*Physeter antillarum*) about 40 feet long, stranded near Yarmouth in 1857, and of which the skull is now in the Museum of the Royal College of Surgeons of London; presented by W. II. Flower, Esq., Royal College of Surgeons.
- A collection of Rocks and Minerals, from Norway, presented by S. R. Graves, Esq., M.P., and Jacob Horman, Esq., of Christiania.
- A collection of Madeira Land Shells, presented by Dr. Gray, British Museum.
- An Electric Eel and four bottles of Reptiles, &c., from Essequibo River, collected and presented by Captain Hempseed, Barque "Westwood."
- A most important collection of bones of the Dodo, arm-bones of the Flying Fox (*Pteropus*), and sundry other bones, from Mauritius; collected and presented by Harry P. Higginson, Esq.
- Two specimens of *Pyrosoma*, taken lat. 1° S., lon. 22° W., and a Parasite (*Lernea*), from a Flying Fish, presented by Capt. William Hull, Ship "Berar."
- A splendid specimen of Johnson's Sea-Fan Coralline (*Paragorgia Johnsoni*), a small red Zoophyte parasitic on dead Coral, and 4 crabs (*Grapsus Edwardsianus*), from Madeira, collected and presented by J. Yate Johnson, Esq.
- Three Snakes; the leg-bones of a Rhea, the wing-bones of a Screamer, the defensive spines of a Siluroid Fish; the jaw and ear-bones of a Fish, and two Spiders, from River Plate; a Diodon, a Hemiramphus, 2 other Fish, and a Locust, from Algoa Bay; the skull of a Dolphin (*Delphinus*); twelve bottles of Marine Specimens (*Cranchia*, *Loligopsis*, *Biporus*, &c.) collected between Liverpool and Valparaiso by Captain Whiteway; and two Echini; presented by Robert J. Keen, Esq.
- The skull of a Dolphin (*Steno*), and a collection of Fish and Marine Specimens, collected and presented by Captain Mackay, Ship "Bedfordshire."
- A young specimen of the Viscacha, presented by J. Bramley-Moore, Esq.
- A collection of Silk Moths, samples of Cocoons, raw Silk, &c., named and presented by Mr. Frederic Moore.
- Living specimens of young Cat Fish (*Pimelodus pullus*), and another American Fish; also, specimens of Crustacea, Zoantharia, Fish, &c., in spirit; presented by Capt. Mortimer, Ship "America."
- A Silvery Hairtail Fish (*Trichiurus*), from Bombay, and an Annelid from Mozambique Channel, presented by Mr. Agostes Oberti.
- An Annelid (*Amphitrite*), a piece of wood bored by the Gribble (*Limnoria terebrans*), and a collection of Crustacea and Starfish, from Millport Bay, Buteshire, presented by David Robertson, Esq.
- The jaws and vertebræ of a large Shark, taken near Jamaica, presented by Captain Thomas Y. Rowe, Barque "Clarendon."
- A *Julus* from Liberia, and the pupa of a Death's-head Moth from Westmoreland, presented by Captain Sherwood.
- A collection of Insects from Sholopore, Bombay, presented by W. T. Stevens, Esq.
- Three Sucking Fish, taken from a Shark in lat. 10° S., lon. 93° W., collected and presented by Captain Strickland, Ship "Ophelia."

A collection of 116 Birds, 2 Quadrupeds, various Weapons, Ornaments, and other articles, from the interior of Africa, obtained during the Expedition of the Dutch Ladies to the upper waters of the Nile, recorded in the "Transactions of the Historic Society of Lancashire and Cheshire," vol. xvi., presented by J. A. Tinne, Esq.

Drawings and skeletons of three species of Bottle-nose Dolphins (which have been named from these specimens *Delphinus Walkeri*, *Delphinus Moorei*, and *Delphinus punctatus*, by Dr. Gray in the Proceedings of the Zoological Society of London, for 1865, p. 736-8); a collection of Marine Specimens made in 1865, between Bombay and Liverpool; a fine specimen of the Dolphin (*Coryphæna hippuris?*), and a collection of Marine Specimens obtained between New Orleans and Liverpool, and specimens of Reptiles, Fish, &c., from the neighbourhood of New Orleans, collected and presented by Captain John Walker, Ship "Trenton."

A Squirrel, 3 Birds, a bottle of Reptiles, Fish, &c., and a bundle of Spears, from the Gaboon, collected by R. B. N. Walker, Esq., F.R.G.S.

Two specimens of Vendace (*Coregonus albula*), from Lochmaben, Dumfriesshire, presented by J. H. Weightman, Esq.

Seven specimens of the Southern Chimæra (*Callorhynchus antarcticus*), and other Fish from Valparaiso, collected and presented by Captain Whiteway, Ship "Annie Chesyre."

A large collection of Minerals, together with Rock specimens and Fossils, presented by Mr. Councillor Maurice Williams.

An Otter from Charleston, South Carolina, and two Gannets, presented by Capt. Thomas Williams.

A Cast of *Eurypterus nanus*, from the Upper Silurian of Gottland, presented by Henry Woodward, Esq.

A collection of Teeth and Bones of the Cave Bear and other Animals, from a bone cave at Cefn, near St. Asaph, collected by the Curator of the Museum, and presented by Mrs. Williams Wynne, Cefn Hall.

Minor Donations have also been received from Lady Cust, Mrs. Tory, Rev. John Ross, Capts. Mos and Fraser, Messrs. Alderman Bennett, Frank Bollans, D. Coffey, S. Haggas, J. G. Jones, Jump, Joseph Kershaw, W. R. Milles, J. Norris Sleddon, W. St. Claire, Wm. Taylor, Wm. Thompson, P. F. Tinne, J. Tunstall, J. S. Tyerman, Walker, Wright, Jas. H. Cave, C. J. English, W. B. Hunter, F. P. Marrat, H. C. Sanderson, W. H. Still, — Taylor, ship "Sparkling Wave," B. M. Wright, and G. Hulse.

It will be seen by the above list how largely the Museum has profited by the exertions of the Masters of Vessels trading from Liverpool, and that great praise is due to them for their liberal contributions.

PURCHASES.

The following Specimens have been added to the Collection by Purchase:—
Twenty-three specimens of Mammalia, two Birds, one hundred and twenty-four Fish, thirty eight Reptiles, twenty-two Skeletons, fifty-two Crustacea, three cases of Insects, twenty-eight Corals, one hundred and fifty-six Shells, seventy-one Starfishes and Sea

Urchins, a series of Fossils from the collection of Dr. Bowerbank, and ninety-eight other Fossils, Casts, and Minerals; also sixty-eight Glass Models of British Sea Anemones, &c., purchased of Mr. Leopold Blaschka, Dresden, fifty Models of Foraminifera from Professor Fric, and other specimens.

EXCHANGES.

- A Collection of Fossils from Canada, chiefly Devonian and Post-Pliocene, also a sample of the Laurentian *Eozoon Canadense* (the supposed earliest evidence of animal life yet known), received from the McGill College, Montreal, per Professor Dawson, Principal, in Exchange for Casts of *Cheirotherium* Footprints, &c.
- A collection of Land Shells, chiefly from Vienna, received from the Imperial Royal Zoological Museum, Vienna, per Herr Ritter Von Frauenfeld, Custos.
- Fifty Duplicate Birds from the Derby collection sent to the Government Central Museum, Madras, in exchange for a fine collection of Stuffed Fish received in 1865 per Captain Mitchell and A. C. Brisbane Neil, Esq.
- A collection of Fossil Brachiopoda, from the Island of Anticosti, received from the Museum of Comparative Zoology, Cambridge, Massachusetts, per Professor Agassiz.

FINE ARTS.

- A valuable painting of the Death of Nelson, by Benjamin West, P.R.A., has been presented by Bristow H. Hughes, Esq.
- A selection of the Engravings of the French School of Engravers has been lent by Percy M. Dove, Esq., for Public Exhibition.

LENDING LIBRARIES.

For some time these Libraries have had as many readers as can be attended to with convenience and despatch; the last seven years presenting little or no change beyond the increase or decrease of two or three hundred.

There has been a falling off in borrowers over last year of 326; this, however, is attributable to the revision of vouchers having resulted in the rejection of many, through the guarantees, for various reasons, being no longer burgresses or ratepayers. This revision is rendered necessary every three or four years, on account of the changes which take place through death, removal from town, and other causes.

The issues show a decrease to the amount of 42,868 volumes, consequent to some extent on the reduction in readers, but principally on account of each Library being closed for a fortnight for stock-taking and examination of books. The falling off, therefore, is not indicative of the Libraries being less popular than formerly.

The present readers number 8,243. In the winter months, as may be expected, they always greatly increase, so that occasionally it is found necessary to stop the issue of vouchers to prevent overcrowding.

The Books lent during the year amount to 401,374 volumes, making a total of 4,680,818 volumes since the Libraries were established in 1853.

The additions for the year number 1,620 volumes, made at a cost of £326 15s. 2d. Of these, 916 volumes were new, at a cost of £217 16s 11d; and 679 second-hand, at a cost of £108 18s 3d; the remaining 25 volumes were received from the following donors—Mr. Cartmale, J. W. Hayward, M.D., Thomas Hugo, Mrs. Lloyd, Richard Masheder, Mrs. Pannel.

The total volumes in the Libraries after the revision recently made, amounted on the 31st August, to 37,161.

North Library.....	18,625 volumes.
South do.	18,536 do.
	<hr/>
Total.....	37,161 volumes.
	<hr/> <hr/>

During stock-taking 180 volumes of duplicate books no longer in demand, were withdrawn and presented to the principal Hospitals of the town, and thankfully accepted on behalf of the patients.

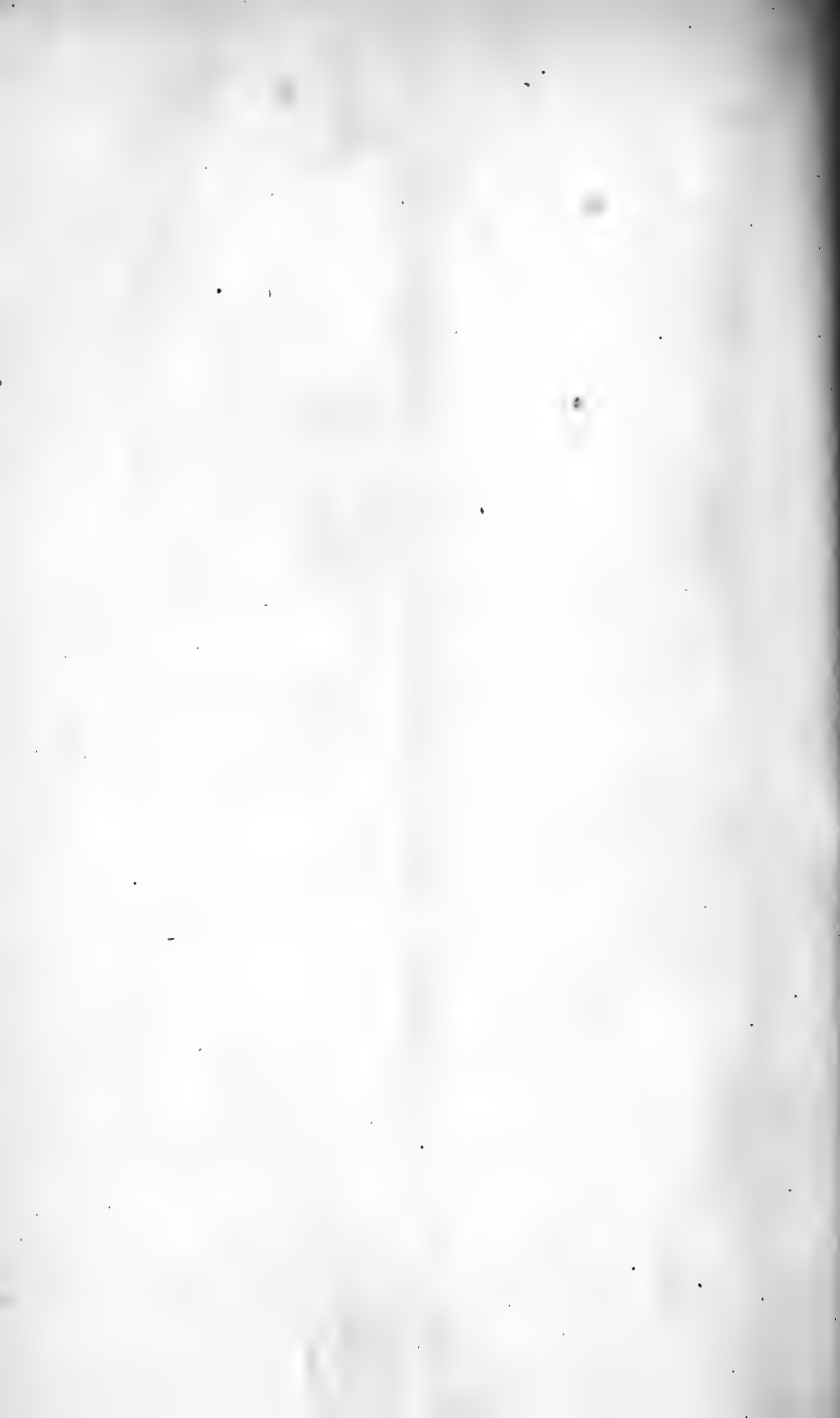
The following is the classification of the issues for the year :—

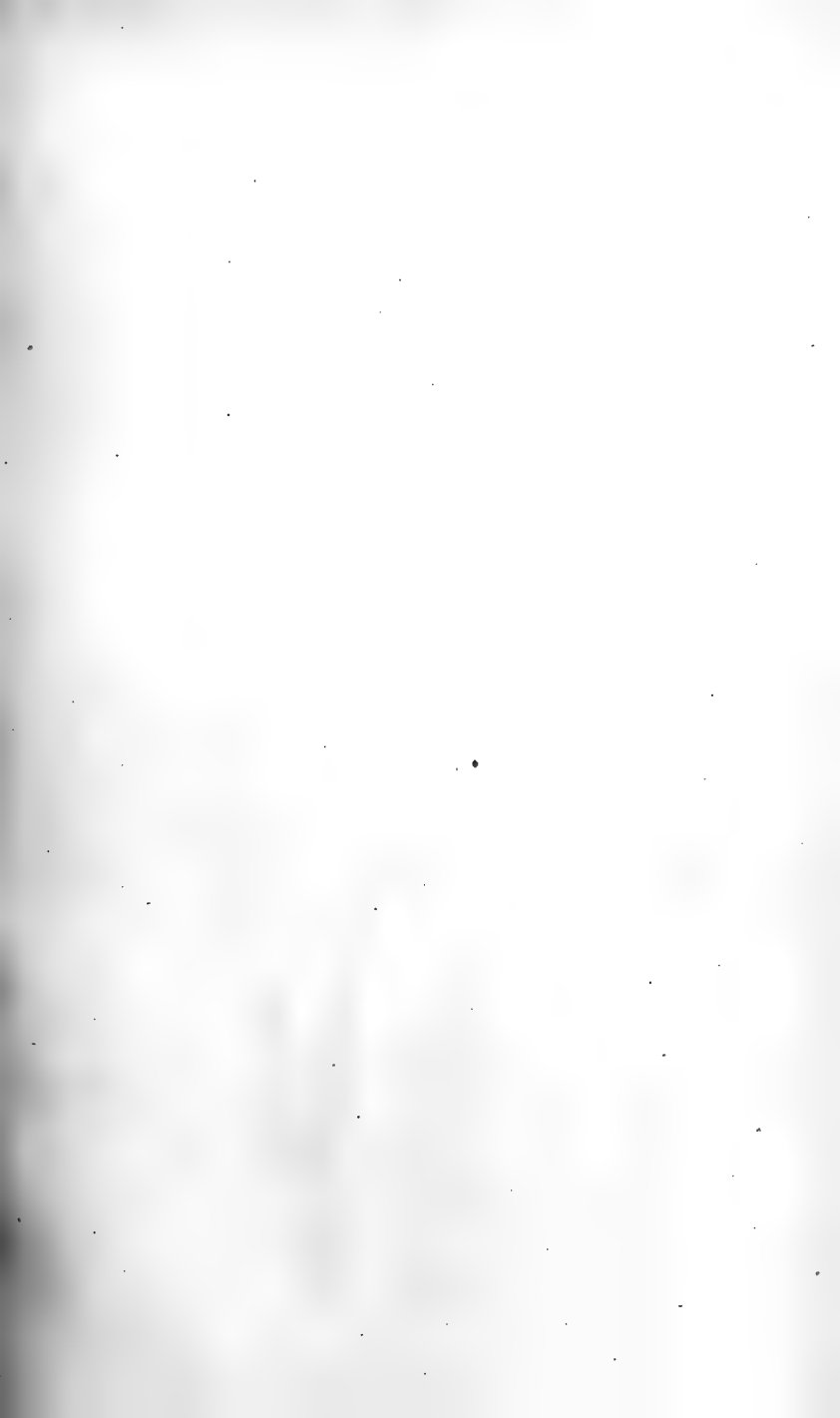
	North.	South.	Total.
Theology and Metaphysics	4,557	4,656	9,213
Natural Philosophy	1,768	1,762	3,530
Natural History.....	1,163	1,461	2,624
Science and the Arts	5,173	4,902	10,075
History and Biography.....	10,584	10,040	20,624
Topography and Antiquities	739	737	1,476
Voyages and Travels.....	4,284	5,441	9,725
Miscellaneous Literature	16,981	20,946	37,927
Jurisprudence and Politics	311	311	622
Commerce and Political Economy	490	784	1,274
Education and Language	2,092	1,664	3,756
Poetry and the Drama	2,320	2,419	4,739
Novels and Romances	144,975	150,126	295,101
Classical Literature	88	193	281
Embossed Books for the Blind	90	317	407
	<hr/>	<hr/>	<hr/>
Total.....	195,615	205,759	401,374
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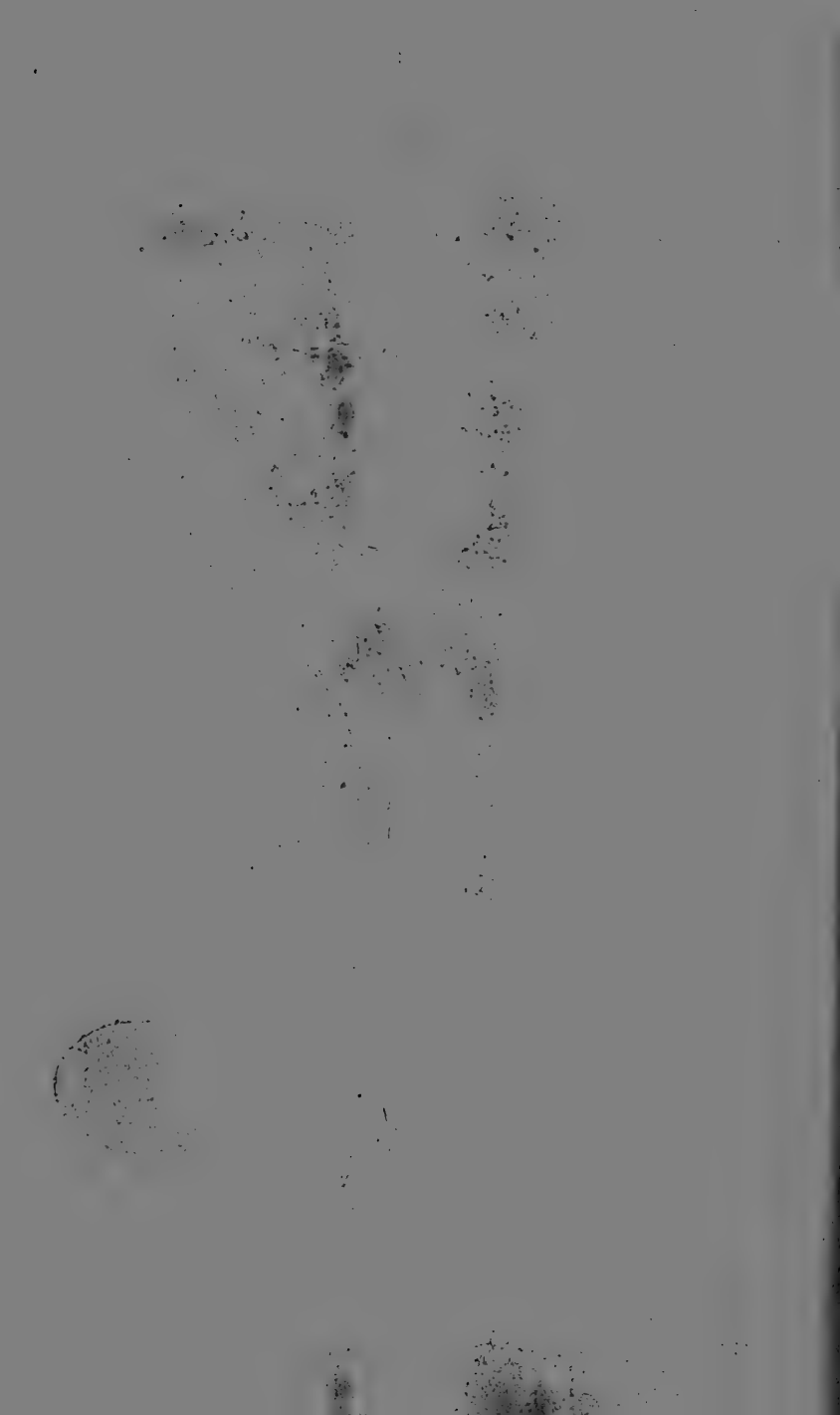
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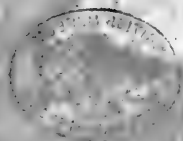
FIFTEENTH ANNUAL REPORT
OF THE COMMITTEE OF THE
FREE PUBLIC LIBRARY,
Museum, and Gallery of Arts,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL, 1867.



LIVERPOOL:
THE LIVERPOOL PRINTING AND STATIONERY COMPANY, LIMITED,
38, CASTLE STREET.

1867.



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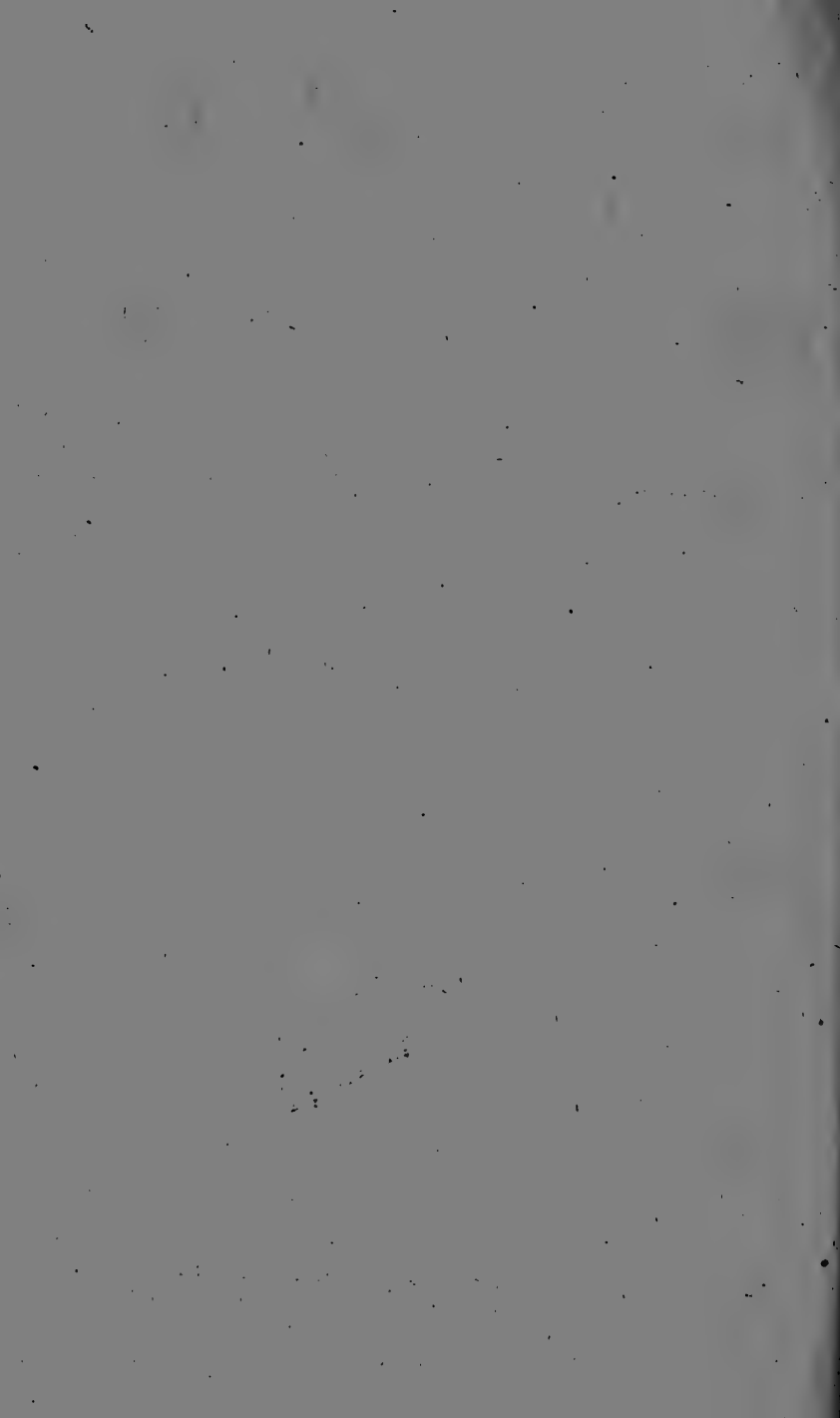
PRESENTED TO THE TOWN COUNCIL, 1867.



LIVERPOOL:

THE LIVERPOOL PRINTING AND STATIONERY COMPANY, LIMITED,
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1867.



OFFICERS AND COMMITTEE

FOR THE YEARS 1866-67.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

E. SAMUELSON, DEPUTY-CHAIRMAN.

JOHN G. MORRIS, MAYOR.

WILLIAM BENNETT,
JOHN YATES,
THOMAS AVISON, F.S.A.
JOHN RIMMER,
R. C. JANION,

JAMES JACK,
JOHN ROGERS,
P. H. HOLT,
R. R. MINTON.

LIEUT.-COL. JAMES C. BROWN,
REV. H. H. HIGGINS,
JOSEPH MAYER, F.S.A.

Chief Librarian.

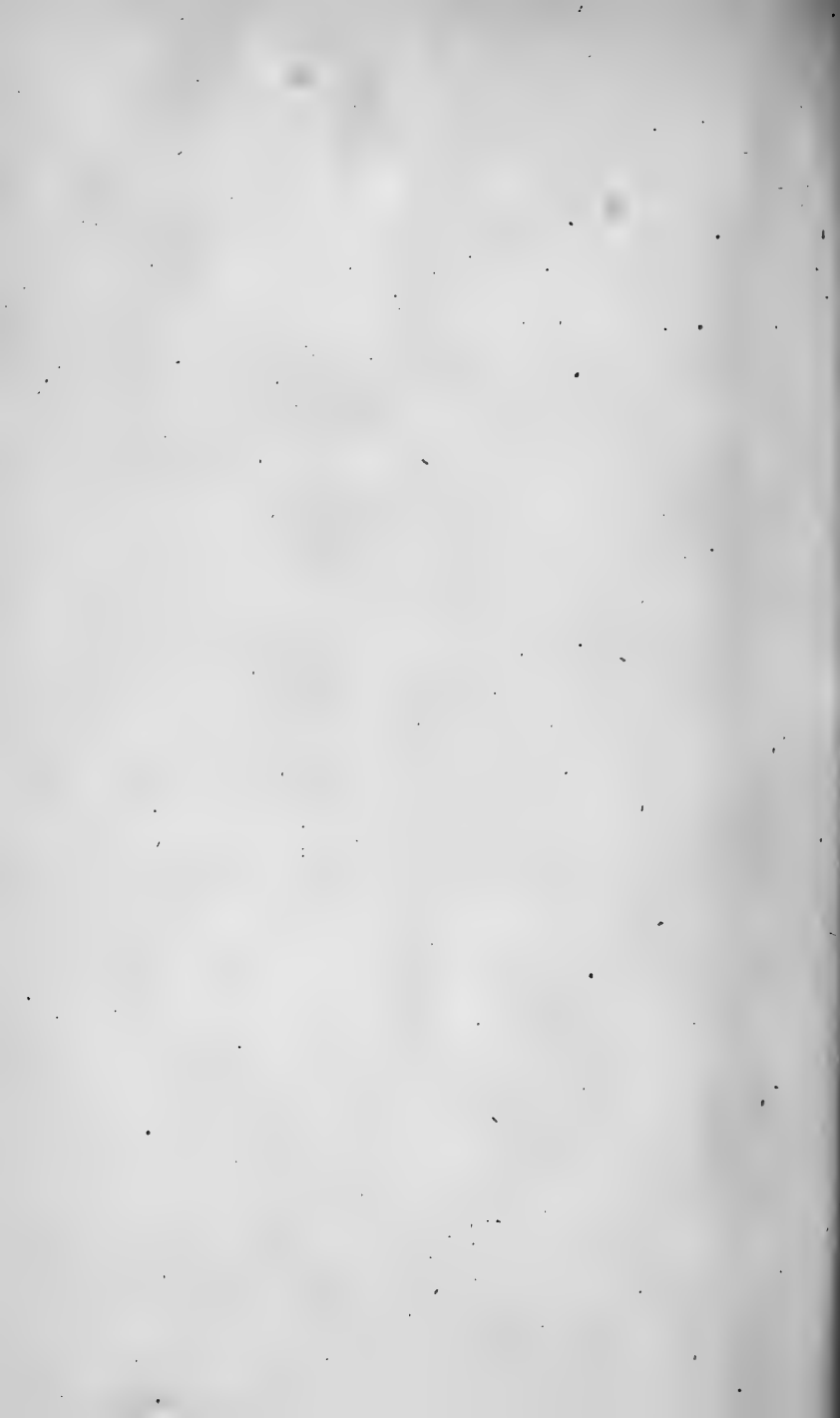
GEORGE HUDSON.

Superintendent of the Lending Libraries.

PETER COWELL.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

THE history of this Institution has been one of continual progress and development, but since the opening of the present building in 1860, no year has brought with it so many sources of congratulation.

The Central Library of Reference has far exceeded all previous years in the extent of its issues and usefulness; and the Lending Libraries have been worked up to the full extent of their capacity, which is limited. The main feature of the year, however, has been the acquisition of the magnificent Collection of Historical Art Treasures, given to the town by Mr. Joseph Mayer, F.S.A., which, it is no exaggeration to say, is the finest Collection of the kind ever presented to the public. The money value of this Collection is very great; but it possesses an interest and value which no amount of money at the present day could purchase; it has been the loving labour of a life to bring it together. In some of its departments—those of Wedgwood ware and ivory carvings—it is unique. It contains the best collection extant of illustrations of the Liverpool Pottery ware, a manufacture for which the town was once celebrated, but which has been long extinct. In Egyptian and Assyrian antiquities it is very rich, particularly in gems. The Fausset Collection of Anglo-Saxon Remains, the finest extant, forms a portion of it; together with a large number of ancient manuscripts and illuminations.

The Town Council has suitably recognised its appreciation of this noble gift by voting a marble statue of the donor, to be placed in St. George's Hall.

The Right Hon. the Earl of Derby, the munificent donor of the Derby Museum, has during the year been awarded a similar acknowledgment by the Council.

The erection of the Gallery of Arts is now in a fair way of being proceeded with. The property required for the site has been scheduled under an Act passed during the last Session, and the Borough Architect is preparing plans for the intended building.

A valuable historical Collection of Porcelain has been lent to the Institution by the Right Hon. W. E. Gladstone, M.P., for seven years, which is open to the public, in the Picture Gallery.

The Lectures have been continued, and have afforded valuable aid to the School of Science in their endeavours to educate the industrial classes.

The Committee have to lament the loss of the chief lecturer, Dr. E. H. Birkenhead, F.G.S., who was suddenly cut off in the prime of life, and in the midst of a course of active usefulness.

The following are the Statistics of the respective Departments:—

REFERENCE LIBRARY.

The issue of Books for the past year has exceeded that of any previous year by the large number of 106,672 volumes, the yearly issue amounting to 578,774, with an average of 2,041 volumes per day, against 472,102 volumes in 1865-66, with an average of 1,662 per day.

The following is a classified List of the Books issued:—

CLASSIFICATION.	VOLUMES.	DAILY AVERAGE ABOUT
Theology, Morals, and Metaphysics	17,503	62
Natural Philosophy, Astronomy, Chemistry, &c.....	16,647	58
Natural History, Botany, Mineralogy, &c.	6,330	22
Science and the Arts, Architecture, Painting, Music, &c.	36,521	129
History and Biography	39,001	138
Topography and Antiquities	9,189	32
Geography, Voyages, and Travels	32,248	114
Miscellaneous Literature.....	167,075	589
Jurisprudence, Law, and Politics	4,828	17
Commerce, Political Economy, and Social Statistics.....	3,967	14
Education, Logic, Language, &c.	11,026	39
Poetry and Dramatic Literature ..	22,427	79
Works of Imagination.....	199,873	705
Classical Literature.....	3,663	13
Heraldry, Encyclopædias, and Works of Reference.....	8,476	30
	<u>578,774</u>	<u>2,041</u>

During the year 2,407 volumes of Books have been added to the Library, viz., 1,705 by purchase, 287 vols. of Parliamentary Papers and 192 vols. of Magazines from the Athenæum Library, 103 from the Commissioners of Patents, and 120 vols. by donation, under the following heads:—

CLASSIFICATION.	1866.	Additions.	1867.
Theology, Morals, and Metaphysics	3,476	219	3,695
Natural Philosophy, Astronomy, &c.....	1,111	49	1,160
Natural History, Botany, Mineralogy, &c. ...	2,218	196	2,414
Science and the Arts, Architecture, &c.	4,398	309	4,707
History and Biography	6,565	199	6,764
Topography and Antiquities	1,967	63	2,030
Geography, Voyages, and Travels ...	2,877	83	2,960
Miscellaneous Literature.....	7,608	566	8,174
Jurisprudence, Law, and Politics	3,632	361	3,993
Commerce and Social Statistics	396	16	412
Education, Logic, Language, &c.	628	26	654
Poetry and Dramatic Literature.....	1,907	111	2,018
Works of Imagination	4,789	130	4,919
Classical Literature	292	9	301
Heraldry, Encyclopædias, and Works of Reference	1,397	70	1,467
	<u>43,261</u>	<u>2,407</u>	<u>45,668</u>

In the early part of October last year, the Committee, finding the accommodation insufficient through the great increase of readers, made arrangements to adapt the large corridor and two class-rooms, at the North end of the building, for reading purposes, the additional space thus obtained being sufficient for one hundred readers. By this means the amount of room has been increased, so that upwards of six hundred persons can now avail themselves of the advantages of the Library at one time.

The new Catalogue referred to in the last Report is in progress, but is necessarily a work of considerable labour and time.

LENDING LIBRARIES.

For some years these Libraries have been issuing between four and five hundred thousand volumes annually.

Situated in the most densely-populated parts of the town, among a class of people having but a very rudimentary education, they afford the means of self-improvement to all who choose to avail themselves of the advantages afforded them. An inspection of the appended table of the classes of persons to whom Books have been issued during the year, cannot fail to prove that the work of self-education is going on to a great extent, for no less than one hundred thousand volumes have been lent of an almost entirely educational character. No doubt a large proportion of the total issues are works of fiction; but it is a subject for congratulation that these Libraries are the means of diffusing harmless amusement and cultivating the imagination, by the reading of a pure literature, amongst a class who might otherwise be exposed to influences of a pernicious character.

During the year 420,282 volumes have been lent to 8,233 readers, being at the rate of 51 volumes to each person.

4,295 new tickets have been issued: at the North Library 2,185, at the South 2,110. Against this number 3,971 tickets have been cancelled: North Library 2,051, South 1,920; leaving an increase on each Library respectively of 134 and 190, or a total of 324 borrowers. According to a rule of the Libraries, it is required that each reader shall renew his ticket of membership every twelve months. There is therefore a regular monthly revise of one-twelfth of the tickets. All tickets not renewed in the month specified are cancelled, and the parties, if desirous of again becoming readers, are required to furnish new forms of application, as in the first instance.

The additions to the stock number 1,338 volumes: 1,323 by purchase, and 10 by donations from R. A. Macfie, Esq., and L. P. Stubbs, Esq. 250 volumes, worn out, have been replaced at a cost of £29 10s. These are principally cheap editions of standard popular books, incapable of bearing much wear.

In the month of June, the South Library was closed fourteen days for stock-taking, &c., when five volumes were found missing, of the value of twenty-one shillings. At this time the whole of the books were carefully examined, and the Library placed in satisfactory working order.

The increased demand for the Music in circulation at these Libraries, which has been carefully selected, chiefly from the works of the great masters, shews the growing taste in this direction. The care which is taken of the books, and the amount of music known to be copied from them, is a proof they are highly appreciated.

The issues in this class number 3,490 volumes.

A complete Catalogue of the South Library is in course of preparation, and will be issued about the beginning of next year.

The following a'phabetical List of Readers' occupations may not be without interest. It will be seen that the commercial character of the town is indicated by the large number of Clerks, Merchants' Apprentices, and Office Boys.

TABLE OF THE OCCUPATIONS OF READERS AT NORTH AND SOUTH LENDING LIBRARIES.

	NORTH	SOUTH	TOTAL
Agents, Collectors, and Commercial Travellers.....	41	59	100
Apprentices (principally Merchants')	312	365	677
Architects and Surveyors	11	14	25
Artists, Photographers, &c.....	7	16	23
Bakers	27	15	42
Blockmakers.....	9	12	21
Boat Builders and Shipwrights.....	27	79	106
Boilermakers.....	25	13	38
Bookbinders	17	8	25
Bookkeepers and Clerks.....	708	744	1,452
Booksellers and Stationers.....	8	17	25
Boot and Shoemakers.....	34	15	49
Boys, Office	232	162	394
„ Shop	31	23	54
„ School.....	132	168	300
Brassfinishers and Coppersmiths	38	15	53
Bricklayers	13	7	20
Butchers	14	14	28
Cabinetmakers and Upholsterers	9	30	39
Carvers and Gilders	14	19	33
Chemists and Druggists.....	34	32	66
Clergymen, Scripture Readers, &c. ...	19	25	44
Coachbuilders and Wheelwrights	13	12	25
Cardrivers, Carters, &c	11	12	23

	NORTH.	SOUTH.	TOTAL.
Coopers	16	14	30
Custom House Officers	29	31	60
Dock-gatemen.....	6	3	9
Draughtsmen	8	24	32
Dyers	8	3	11
Engravers.....	4	8	12
Publicans and Barmen	26	31	57
Engine-fitters	20	9	29
Gardeners.....	4	3	7
Grocers, &c.....	62	63	125
Hairdressers.....	20	11	31
Ironmongers.....	11	20	31
Joiners	81	97	178
Labourers and Porters	220	116	336
Letter Carriers	21	20	41
Mariners	30	16	46
Masons	16	16	32
Millers	17	2	19
Millwrights and Engineers.....	104	61	165
Milliners and Dressmakers.....	11	27	38
Moulders	12	6	18
Musicians and Teachers of Music.....	26	11	37
Opticians	3	2	5
Painters and Plumbers	59	49	108
Pawnbrokers	40	21	61
Pianoforte Makers and Tuners.....	5	11	16
Police Officers	21	10	31
Printers, Compositors, & Lithographers	81	51	132
Saddlers	14	5	19
Sailmakers and Riggers	11	30	41
Shop Assistants	12	95	107
Shopkeepers.....	41	48	89
Smiths	31	52	83
Slaters and Plasterers... ..	8	12	20
Surgeons, Dentists, &c	15	16	31
Tailors	21	32	53
Teachers	64	76	140
Tinplate Workers	15	10	25
Warehousemen.....	93	42	135
Watchmakers und Jewellers	35	42	77
Occupations not specified, principally			
Female Readers	834	1,220	2,054
Total.....	3,941	4,292	8,233

MUSEUM.

STATISTICS.

	1865-66.	1866-67.	Increase in 1866-67.
Day Visitors.....	360,117	474,660	114,543
Evening do.	25,479	31,333	5,854
Total.....	<u>385,596</u>	<u>505,993</u>	
Average of Day Visitors	1,818	2,228	
Average of Evening Visitors.....	1,061	1,253	
		{ 24 Nights	{ 25 Nights
Greatest Attendance in one Evening	1,342	1,904	
Smallest ditto	783	823	

The great increase in the number of visitors during the past year is attributable in great measure to the recent acquisition of the Mayer Collection, as noted above; but the attendance of more than half-a-million visitors to the Museum in one year is a fact deserving special note, and is most satisfactory evidence of the estimation in which the Institution is held by the public at large.

DONATIONS.

Two Shells (*Separatista Grayi*) from Japan, and a *Teredo*, from the Cape of Good Hope, presented by Mr. A. Adams, London.

A bottle of Lizards, presented by Mr. T. P. Adlington.

Twenty-one Lower Silurian Fossils, from the neighbourhood of Portmadoc (including *Dionides atra*, *Miobe Homfrayi*, *Cornularia Homfrayi*, *Hymenocaris vermicauda*, &c.) presented by Mr. Frederick Ash, Dartmouth, Devon.

A Shark's Jaw, presented by Captain John Baker, ship "Adelaide Baker."

Living specimens of *Anemones (Anthea cereus)*, from Holyhead, presented by Rev. William Banister.

A collection of Fish, Crustacea, Reptiles, Insects, and a few small Rodents, from the River Plate, presented by Captain Batty, s.s. "Cordova."

A Flying Fox (*Pteropus*), from Calcutta, two Flying Fish, and three Lizards, presented by Captain Beattie, ship "Harold."

A Lamprey (taken from ship's hull, 20 miles off Cork), presented by Captain Beer, ship "Esmeralda."

A case of Insects, from Bombay, presented by Captain Bell, s.s. "Atlas."

A young Swift, presented by Mr. James Bennett.

A bottle-nose Dolphin (*Delphinus*?) skin and skull, some fine Fish of the Tunny tribe (*Scomberoids*), and other Marine Specimens, collected and presented by Captain Berry, ship "Richard Cobden."

The Model of a Canoe, from Ceylon, presented by Mr. John Blake.

- A bottle of Snakes, from Demerara, presented by Mr. Samuel Bland.
- A fine Atlas Moth, from the Camaroons, presented by Mr. Bowerbank.
- Three Squids (used for bait in the cod fishery), from Newfoundland, presented by Mr. Councillor C. T. Bowring.
- A large mass of Asbestos, from Newfoundland, presented by Mr. Charles Bowring, Newfoundland.
- Skull of a young Porpoise, taken off the Cheshire coast, presented by Mr. Ralph Bromilow.
- The Head of a Hammer-headed Shark; four Fish and two Crustaceans (*Isopods*), from the Mediterranean; eighteen Terra Cotta Figures from Larnaka, Island of Cyprus; broken Flints from Dog River, near Beyrout; and a young specimen of the Sword Fish, from Malta; collected and presented by Captain Browne, s.s. "Agia Sofia."
- A Bergylt, or Norway Haddock (*Sebastes norvegicus*), from Billingsgate Market, London; a Burbolt (*Lota vulgaris*), from the River Trent; a piece of Blue Oak, from North America, gnawed by Beavers; and forty Ova of the Salmon ready to hatch; presented by Dr. Frank Buckland, H. M. Commissioner of Salmon Fisheries.
- Fifteen Shells from Madras, presented by Captain Byford.
- A Case of Insects, from Santa Marta, New Grenada, presented by Mr. H. E. Cauty.
- A Block of Torbanehill Coal (Parrot or Boghead coal), and a fine specimen of *Lepidodendron*, from the coal measures of Worsthorne Quarry, Lancashire; presented by Mr. Thomas Chaffer.
- A young Crocodile, presented by Mr. John Christian.
- A mass of Annelid Tubes, from the hull of the Italian ship "Alma," presented by Mr. John Cork.
- A fine Annelid (*Eunice*?), from Seacombe, presented by Mr. R. M. Corless.
- An Egg (curiously distorted and corrugated), laid by a Cochin China hen, presented by Mr. Thomas Court.
- Four living Sea Anemones (*Actinoloba dianthus*, &c.), from Leasowe, presented by Lady Cust.
- A series of specimens of Lava, from Vesuvius, collected and presented by Rev. J. L. Darby, Newburgh, Ormskirk.
- A large living Hunting Spider (*Mygale*), found in a cargo of timber from Monte Video, presented by Mr. Councillor T. Dawson, M.D.
- A common Swan, presented by the Right Hon. the Earl of Derby.
- A living Tortoise, from Alexandria, presented by Mrs. Dickenson.
- A collection of Remains of Fossil Mammalia and Reptiles, from Perim Island and Scinde, containing jaw of *Deinotherium*, tooth of Mastodon, *Hippotherium*, and other rare species, (in part determined by the late Dr. Falconer,) also various Fossils from Malta, Oxford Clay, &c., &c.; presented and chiefly collected by Mr. Henry Duckworth, F.G.S.
- A collection of Fish, Reptiles, Birds, and Marine Specimens, from the West Coast of Africa, and from Panama and other parts of the American coast, collected and presented by Captain J. E. Dyer, barque "James Wilson."

Rostrum of Saw Fish (*Pristis antiquorum*), presented by Mr. D. A. Edwards, Waterloo.

A Gecko, presented by Mr. Charles J. English.

Two specimens of *Nummulites lenticulata*, from Perte du Rhone, Bellegarde, near Geneva, presented by Mr. R. A. Eskrigge.

A Pike, weighing 18 lbs., from Bowness; a Northern Stone-Crab (*Lithodes Maia*); a large pendulous Bird's Nest; two Reptiles and a bottle of Marine Specimens; a Trout and a fine Perch, from Windermere; a Shark (*Carcharias*), seven feet long; a Box-Fish (*Ostracion*); a rare Crustacean (*Callianassa Turnerana*), from West Africa; two rare Shells (*Bulimus Downsii*), from West Africa; a bottle of Fish, Crustacea, &c., from the Gulf-weed; three Reptiles and a large Spider; presented by Mr. J. O. W. Fabert.

A young Bottle-nose, two Flying Fish, five other Fish, and a Sepia, from Benin, collected and presented by Captain Faulkner, ship "Retriever."

Three specimens of the Cobra da Capello, and six bottles of other Reptiles, from Calcutta, collected and presented by Captain Fletcher, ship "Raj Mahal."

Eight living Cray-Fish, for the Aquaria, presented by Mr. James Fletcher.

Thirty-two samples of Wood, from Borneo, presented by Captain W. D. Garside, Ormskirk.

Three Lemon Soles (*Solea aurantiaca*), presented by Messrs. Gilson & Quelch, London.

A large Slab of *Lepidodendron* and other Coal Plants, from Thatto Heath Quarry, St. Helens, and a mass of Shells from the "Cockle-bed" of the Coal Measures, presented by Mr. Councillor R. Gladstone.

A large Ammonite, from Natal, presented by Mr. John Graham.

Sixteen Shells, a Nest, a young Crocodile, two Snakes, a Sea Cucumber, an Octopus, three Locusts, &c., presented by Mr. S. R. Graves, M.P.

Three living Green Lizards (*Lacerta viridis*), from Jersey, presented by Mr. O. R. Green.

A Harvest Mouse, from Salisbury Plain, and a collection of Fossil Sponges, from the Chalk, near Salisbury, presented by Mr. W. H. Hatcher, London.

A Coral Snake, from Pernambuco, and two Fish Otoliths from a "Brem," presented by Captain Helyer, brig "Hugh Block."

Two Iguanas, two Snakes, two Tadpoles, two Insects, and the Skull of an Agouti, from Esequibo, collected and presented by Captain Hempseed, barque "Westwood."

A can of Freshwater Fish, presented by Mr. John Herd.

Specimens of Horse Botts, presented by Mr. Gilbert Heyes.

Three Sucking Fish, presented by Mr. James B. Husband, ship "Lightning."

Four bottles of Marine Specimens, from the China Sea, collected and presented by Mr. John C. Irving, ship "Patriot Queen."

A collection of Fish, Reptiles, Crustacea, and Corallines, from Algiers, collected by Mr. J. Yate-Johnson, London.

A piece of *Stigmara*, from Hartley Colliery, Barnsley, presented by Mr. Joseph Kershaw, Halifax.

A box of Insects, from Natal, presented by Mr. Arthur G. Latham, Manchester.

- Two young Parrot Fish (*Diodon*), from Natal, presented by Mr. J. Lewis, Algoa Bay.
- Specimens of twenty-seven species of Land and Marine Shells, from various localities; a bottle of Insects, from the Valley of the Meander, Asia Minor; and various specimens of Zoophytes, from the Gulf of Scala Nova; presented by Mr. Robert MacAndrew.
- A Centipede (*Scolopendra viridicornis*), found in raw sugar, presented by Messrs. Macfie and Sons.
- A rare Iguana, presented by Mr. William Manders.
- A Nut of the Piassava Palm, from Bahia, containing two large Coleopterous larvæ, presented by Mr. B. Matthewman.
- A piece of the Tusk of an Elephant, perforated by an iron spear-head; a Fish-spine, from the chalk and other fossils; a collection of Agates, from Bohemia; the Dermal Plates of a Glyptodon; the Sacrum of a Megatheroid animal; the Femur of a Mastodon, and a large Wasp's Nest, from South America; the base of a Horn of Stag, from a chalk-hole near Chatham; the Sacral Vertebrae of a Horse, dug up near Wallasey Pool; a remarkably fine Footprint of Cheirotherium, from Storeton; and two cases of Gems; presented by Mr. Joseph Mayer, F.S.A.
- A piece of a Beam, eaten by white ants, and a sample of Paper made in Cashmere from silk, presented by Mr. F. Moore, London.
- The Skull of a Porpoise, the Jaws of two Sharks, a collection of Minerals, and a few Fossils and Mexican Antiquities, presented by Mr. James Morris.
- Specimens of Fish, Crabs, Soundings, &c., from the North Atlantic; an Indian Strawberry Basket, from the province of New Brunswick; a living Snapping Turtle, and three living Crayfish, from Savannah; and a collection of Marine Specimens, made between Savannah and Liverpool; presented by Captain Mortimer, ship "America."
- Five Slabs of *Graptolites*, from Builth and Llandrindod, presented by Mr. G. H. Morton, F.G.S.
- Two Squids (*Onychoteuthis*?), from the coast of Malta, presented by Mr. Morvin.
- Two Chitons, from West Africa, presented by Mr. Samuel Moss.
- A large circular cream-coloured Dish of Queen's ware (early Staffordshire), presented by Mrs. Jane Myers.
- A piece of Coral (*Heliopora*?), presented by Mr. William Newby.
- Fragments of Ancient British Burial Urns, with burnt bones, and other remains, found at Victoria Park, Wavertree (July, 1867), presented by Mr. Patrick O'Connor, Wavertree.
- Two hundred and thirty-eight British Moths and Butterflies, presented by Mr. A. Owen, Rainhill.
- Three common Lizards, and six young ones, from New Brighton, presented by Mr. Alexander Parr, Wallasey.
- Two Shells (*Turbinella prismatica*), presented by Mr. Penhallow.
- Eggs of a Snake, with the young nearly hatched, from North Australia, presented by Mr. Pinnington.
- A Snake, from Brass River, presented by Mr. Edward Rigby.

- A living specimen of *Adamsia palliata*, and four living specimens of *Lima hians*, presented by Mr. David Robertson, Glasgow.
- The Skin of a small Saw Fish (*Pristis*), a large Caterpillar, and a sample of Gum Copal, from Benin, presented by Captain Robinson, barque "Clio."
- The Tail of a Sting Ray (*Trygon*), from the river Towey, South Wales, presented by Mr. Thomas M. Salmon.
- A Hornbill (*Buceros hydrocorax*), and a small Falcon (*Hypotriorchis*), from the East Indies, presented by Mr. William Searight, Southampton.
- Specimens of *Hippocampus* and *Ostracion*, from the Philippine Islands, presented by Mr. H. J. Silverlock.
- A specimen of *Biphorus*, and two *Pyrosomæ*, from the South Atlantic, presented by Captain Alfred Slee, barque "Esk."
- Specimens of Brick, Tiling, &c., from the Great Wall of China and the Summer Palace of Peking, collected and presented by Mr. W. Digby Smith.
- Twelve Fossils, from the Coal Measures and the Carboniferous Limestone of North Wales, presented by Rev. James F. Splaine, St. Asaph.
- A "Rose Crystal," supposed to contain organic matter, from the United States; and two masses of indurated Shells (*Terebratulæ*, &c.), taken from the ruins of an old Moorish fortification at the New Mole, Gibraltar, presented by Mr. C. R. St. John.
- Two Footprints of Cheirotherium, from Storeton, presented by Mr. George Thomas.
- A collection of Fish and Marine Specimens, collected and presented by Captain Thompson, ship "Vanda."
- Two Hippocampi, one Gurnard, and two Snakes, from Belize, presented by Mr. Charles Thomson.
- A bottle of Insects, &c., from Natal, presented by Mr. G. A. Tinley.
- Specimens of New Zealand Flax, showing the method of preparation, presented by Mr. P. F. Tinne.
- An Australian Lizard, presented by Captain Tobin.
- An Electric Fish, from Old Calabar, and five Crustaceans, from Philadelphia, presented by Mr. J. S. Tyerman.
- A specimen of Mocha Stone, from the Black Mountains, Fort Laraime, U.S.A., and two Cocoons of Silk Moths, imported and bred at Utah, presented by Mr. O. N. Ursenbach.
- A large Sea Cucumber (*Cucumaria*), Echini, Hermit Crabs, &c., from the Banks of Newfoundland, and fourteen bottles of Marine Specimens, collected between Liverpool and New Orleans, and presented by Captain John Walker, ship "Trenton."
- A collection of Reptiles, Fish, Birds, Nests, and Shells, from the West Coast of Africa (chiefly from the River Ogowe), collected and presented by Mr. R. B. N. Walker, F.R.G.S.
- Four common Roach, presented by Mr. Walthew.
- Two Heads of Dolphins (*Coryphæna*), presented by Captain George Watson, ship "Ocean Home."

Three Fossil Coal Plants, from Mold, presented by Mr. W. H. Weightman.

Living Loach, Lamperns, and Miller's Thumbs, from Eccleston, presented by Mr. Thomas West.

A rare Squid, three small Cuttle Fish, three small Fish, &c., and a fine example of a rare Pteropod (*Balanium recurvum*), collected and presented by Captain Whiteway, ship "Annie Cheshyre."

PURCHASES.

A fine male Indian Elephant, the skeleton of which is in course of preparation; a stuffed specimen and mounted Skeleton of the Malayan Tapir; a Skin and Skeleton of the Giant Armadillo (*Priodontes gigas*); a specimen of the Tarsier (*Tarsius spectrum*), from Madagascar; a Persian Lynx, a Chetah, and fifty-eight other specimens of Mammalia.

Two adult and eight young Shield-Drakes, and nine other Birds; and five Skeletons and five Sterna of Birds.

Two Surinam Toads (*Pipa Americana*), and thirty other Reptiles.

A fine specimen of the Maigre (*Sciæna aquila*), from the Wash; a large stuffed specimen of the Mud Fish (*Lepidosiren annectens*), from the Gambia; and forty-seven other Fish.

Two specimens (male and female) of the Giant Crab (*Macrocheira Kæmpferi*), from Japan, and thirty-five other Crustaceans.

A group of Mangrove Oysters, and other Molluscs.

Twenty-eight Starfishes, &c.

Forty-one Corals and Sea Fans.

Three specimens of the remarkable reticulated Sponge, called Venus's Flower Basket (*Euplectella aspergillum*), from the Philippine Islands.

One hundred and eight Upper Silurian Fossils, from Dudley; and numerous Mountain Limestone and other Fossils.

EXCHANGES.

A Set of Casts of Dodo Bones, and duplicate specimens of Hydrozoa, &c., sent to Professor Allman, University Museum, Edinburgh.

A Set of Casts of Dodo Bones, a Footprint, and two Casts of Footprints of Cheirotherium, sent to Dr. Anderson, Quebec Museum.

A collection of Minerals, chiefly from the United States; two specimens of *Ficus pellucidus*; and twelve Shells from the Desert of Sinai, received from the Rev. E. R. Beadle, Philadelphia.

The Skull of a Bear, from North America, and the Skull of a Polar Bear, received from Dr. Frank Buckland, in exchange for Casts of Gorilla and Orang Skulls.

A Set of Casts of Dodo Bones, sent to Dr. Burmeister, Director of the Museum, Buenos Ayres.

A set of Casts of Dodo Bones, sent to Dr. W. H. Campbell, Museum, George Town, Demerara.

A Cast of the Foot Bones of the Dodo (from the original in the Oxford Museum), received from Mr. Joseph Clark, F.S.A., Saffron Walden, in exchange for a set of Casts of Dodo Bones.

- A Slab of *Eozoon Canadense*, and fifty Lower Silurian Fossils, received from the Rev. Dr. Dawson, McGill University, Montreal, in exchange for a set of Casts of Dodo Bones, a *Callorhynchus*, and specimens of British Cephalopoda.
- Two native stuffed specimens of the Susu, or Ganges Porpoise (*Platanista Gangetica*), and their Skeletons, received from the Delhi Museum, per Major MacMahon; through the kind offices of Captain Gordon, 98th Regiment, and Mr. Samuel Archer, 98th Regiment, in exchange for a set of Casts of Dodo Bones, and of Orang and Gorilla Skulls, and eighty-eight specimens of twenty-nine species of Fish and Crustacea.
- Fifty duplicate Insects (*Heteroptera*), sent to Mr. J. W. Douglas, Lee, near London.
- Living Bull Frogs, and other Amphibia, received from Mr. A. Downs, Halifax, Nova Scotia, in exchange for living fresh and salt water specimens.
- A series of fine specimens of the Dahlia Sea Anemone (*Tealia crassicornis*), from Dublin Bay, received from Mr. R. J. Montgomery, Royal Zoological Gardens, Dublin, in exchange for living Newts, Frogs, and Golden Combs.
- Two Stuffed Salmon, and a set of Casts of Dodo Bones, sent to the Government Central Museum, Madras.
- The Head of an Alligator, and the Head of a Rhea, sent to the Museum, Newcastle-on-Tyne.

BEQUEST.

A bequest has been made to the Museum by the late Mr. William Tyrer Gerrard, of Knowsley, an enthusiastic Naturalist, who died in Madagascar, in 1866, from fever, caught through remaining on the island during the sickly season, in order to lose no time in collecting. His bequest consists of all his specimens of Natural History collected in Madagascar and unsold at the time of his death. A portion of these, consisting of Quadrupeds, Nests, Eggs, Insects, &c., have been received, and the remainder are shortly expected.

FINE ARTS.

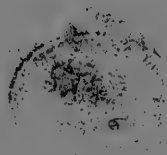
LENT FOR PUBLIC EXHIBITION.

- A collection of Oil Paintings and Water-colour Drawings, by Mr. R. Norbury. The Drawings of the Liverpool Sketching Club.
- A selection of Porcelain Ware, from the collection of the Right Hon. W. E. Gladstone, M.P.

DONATIONS.

- An Oil Painting of Dovedale, Derbyshire, by the late C. Barber, presented by the family, per Mr. Walbanke B. Barber, London.
- A Bust of Garibaldi, taken during his visit to England in 1864, by E. Edward Geflowski, presented by Mr. J. P. Harris.
- A Bust of Daniel Webster, presented by Messrs. James Baines, Taylor, & Co.
- A (plaster) Model of the Liverpool Free Public Library and Museum, by C. E. Smith, sculptor, presented by Mr. Henry Thompson, New Brighton.





SIXTEENTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM,
GALLERY OF ARTS AND EDUCATION,
OF THE
BOROUGH OF LIVERPOOL.

PRESENTED TO THE TOWN COUNCIL,

1868.



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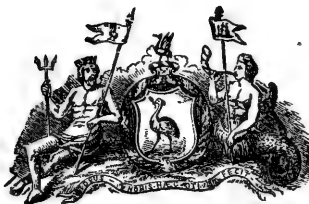
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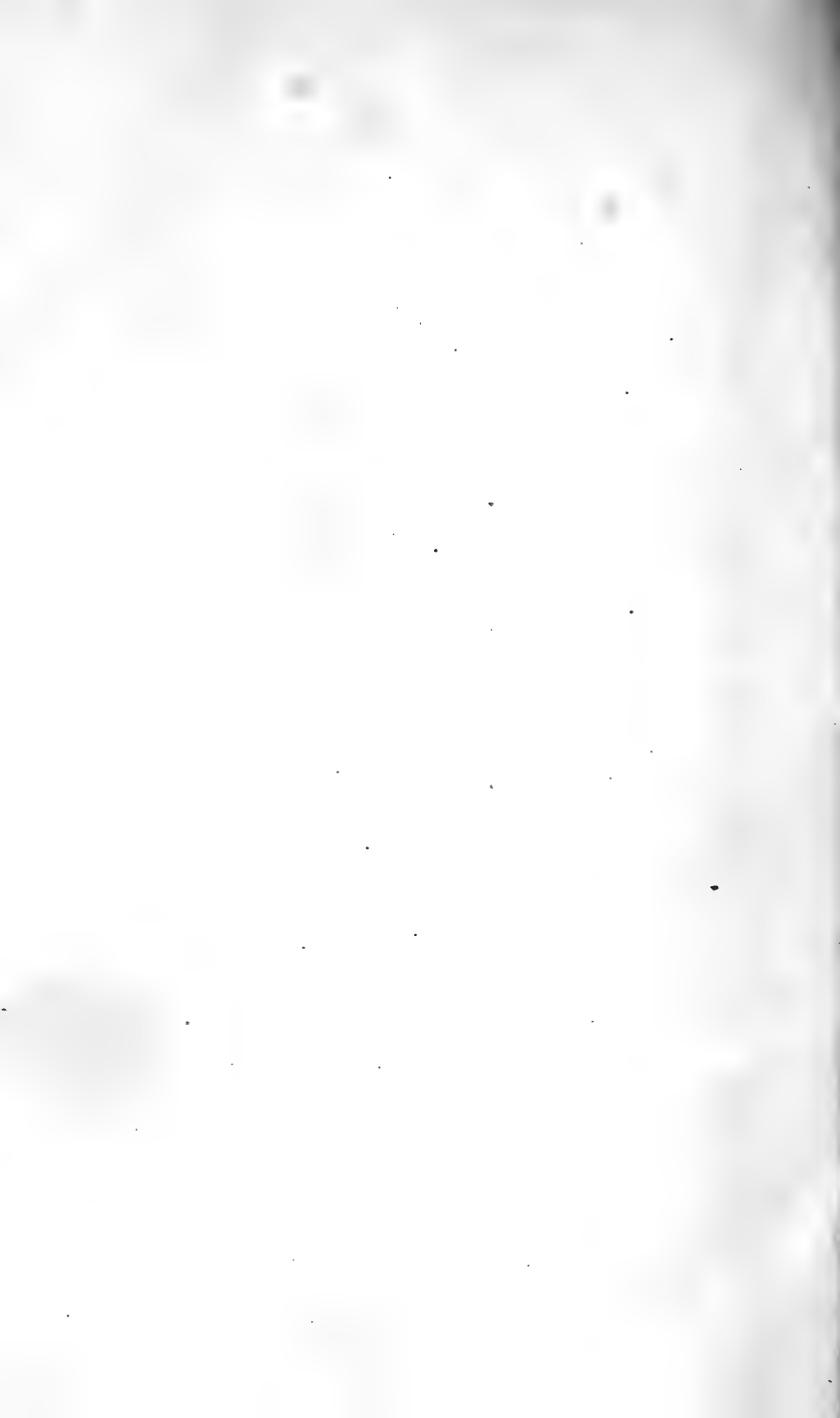
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LIVERPOOL:

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OFFICERS AND COMMITTEE

FOR THE YEARS 1867-68.

Committee.

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Chief Librarian.

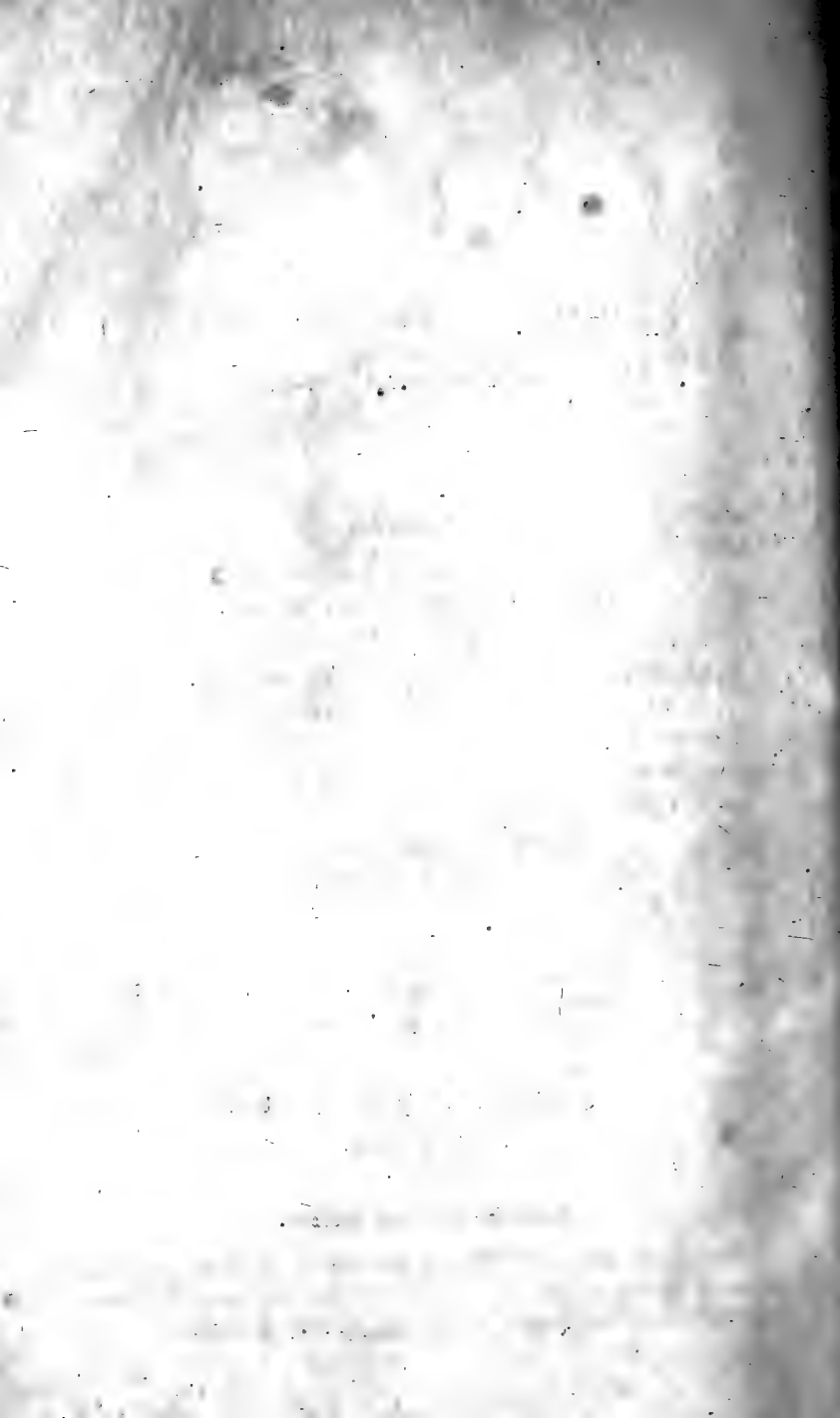
GEORGE HUDSON.

Superintendent of the Lending Libraries.

PETER COWELL.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

THERE is nothing of special interest to report during the year just expired. The Institution has pursued its career of usefulness, increasing as its treasures increase, and is at present in a thorough condition of efficiency.

The Committee regret they cannot report much further progress towards the erection of the permanent Gallery of Art.

The Council have sanctioned the outlay of £10,000, provided the interest and redemption fund can be met out of the penny rate levied under the special act. Owing to the long unsettled dispute between the Parish and the Dock Board, with reference to the rateable liability of the Docks, it is not possible to determine at present, with accuracy, the amount of income available for any further extension. The property scheduled under the improvement act, forming part of the site, has not yet been purchased. Notices to treat, however, have been served by the Improvement Committee, and the plans are in progress by the Corporation Architect.

The following are the Statistics of the respective Departments :—

REFERENCE LIBRARY.

During the past year, the average number of books issued and returned has been 1,982 per day, the yearly circulation numbering 565,344 volumes, against 578,774 during the previous year.

The following is a Classified List of the Books issued :—

Classification.	Volumes.	Daily Average, about
Theology, Morals, and Metaphysics	16860	59
Natural Philosophy, Astronomy, Chemistry, &c.....	16129	56
Natural History, Botany, Mineralogy	5659	20
Science and the Arts, Architecture, Painting, Music, &c.	36218	127
History and Biography	37973	133
Topography and Antiquities	10636	37
Geography, Voyages and Travels.....	31422	110
Miscellaneous Literature	165902	581
Jurisprudence, Law, and Politics	4803	17
Commerce, Political Economy, and Social Statistics ..	3609	13
Education, Logic, Language, &c.	11065	39
Poetry, and Dramatic Literature.....	22501	79
Works of Imagination	189841	666
Classical Literature	3627	13
Heraldry, Encyclopædias, and Works of Reference....	9099	32
	565344	1982

During the year, 1,973 volumes of Books have been added to the Library, viz., 1,686 by purchase, 119 from the Commissioners of Patents, and 68 volumes by donation, under the following heads :—

Classification.	1867.	Additions.	1868.
Theology, Morals, and Metaphysics	3695	137	3832
Natural Philosophy, Astronomy, &c.....	1160	51	1211
Natural History, Botany, Mineralogy, &c... ..	2414	176	2590
Science and the Arts, Architecture, &c....	4707	259	4966
History and Biography.....	6764	184	6948
Topography and Antiquities	2030	134	2164
Geography, Voyages and Travels	2960	95	3055
Miscellaneous Literature	8174	395	8569
Jurisprudence, Law, and Politics	3993	125	4118
Commerce, and Social Statistics.....	412	18	430
Education, Logic, Language, &c.	654	52	706
Poetry and Dramatic Literature	2018	133	2151
Works of Imagination	4919	116	5035
Classical Literature	301	10	311
Heraldry, Encyclopædias, and Works of Reference.....	1467	88	1555
	45668	1973	47641

LENDING LIBRARIES.

The following appended Tables show the work done during the year, at these branches of the Institution :—

	North Library.	South Library.	Total.
Volumes Lent.....	199387	224160	423547
Present Number of Volumes in Circulation	3521	3980	7501
Number of Tickets Granted.....	1884	1933	3817
Total Number Granted.....	27353	31306	58659
Total Number of Tickets Cancelled	23348	26965	50313
Present Number of Readers on the Books	4005	4341	8346
Number of Volumes added	570	620	1190
Total Number of Volumes in the Libraries	19177	19858	39035

The books lent have been classified as under:—

Classification.	North Library.	South Library.	Total.
Theology, Morals, and Metaphysics	5035	4814	9849
Natural Philosophy, Mathematics, &c. ..	1620	2056	3676
Natural History	959	1619	2578
Science and the Arts.....	5731	5203	10934
History and Biography	11040	12091	23131
Topography and Antiquities	737	735	1472
Geography, Voyages and Travels	3927	5662	9589
Miscellaneous Literature	17783	20768	38551
Jurisprudence, Law, and Politics	289	307	596
Commerce, Social Science, and Political Economy	443	842	1285
Education, Rhetoric, Logic, and Lan- guage	2137	2019	4156
Poetry and the Drama	2067	2748	4815
Fiction	147440	164884	312324
Latin and Greek Classics and Translations	98	237	335
Embossed Books for the Blind	81	175	256
Total Volumes.....	199387	224160	423547

Classification of Books Added.	North Library.	South Library.	Total.
Theology, Morals, and Metaphysics	33	40	73
Natural Philosophy, Mathematics, &c.	27	24	51
Natural History	16	17	33
Science and the Arts.....	32	31	63
History and Biography.....	42	58	100
Topography and Antiquities	7	8	15
Geography, Voyages and Travels	33	35	68
Miscellaneous Literature	119	140	259
Jurisprudence, Law, and Politics	2	2	4
Commerce, Social Science, and Political Economy..	2	1	3
Education, Rhetoric, Logic, and Language	26	32	58
Poetry and the Drama	18	16	34
Fiction.....	210	214	424
Latin and Greek Classics and Translations	3	2	5
Embossed Books for the Blind	0	0	0
	570	620	1190

From Table I. it appears that the circulation has been equivalent to lending each volume ten times in the year; and that each reader has had 50 volumes, or nearly one a week.

The works of Music issued, viz., Operas, Oratorios, Masses, &c., number 3,492 volumes.

Of the embossed Books for the Blind lent, 135 volumes were portions of Scripture, and the remaining 121 volumes general literature.

193 Drawings have been lent to copy, consisting of designs in figure, free-hand, and ornamental drawing.

The new Catalogue for the South Library, as announced in the last Report, has been completed, and is now on sale.

The receipts have been—

For Fines	145	12	0
Catalogues.....	59	16	0
Tickets	68	15	2
	<hr/>		
	£274	3	2

The Committee have to acknowledge, with thanks, donations of Books from R. A. Macfie, Esq.; W. Dawbarn, Esq.; S. Huggins, Esq.; Mr. L. P. Stubbs, and E. Durband.

MUSEUM.

STATISTICS.

	1866-7.	1867-8.	Increase in 1867-8.	Decrease in 1867-8.
Day Visitors	474,660	424,347	—	50,313
Evening do.	31,333	39,504	8,171	—
	<hr/>			
Total	505,993	463,851	—	42,142
	<hr/>			
Average of Day Visitors.....	2,228	1,992	—	236
Average of Evening do.	1,253	1,519	266	—
Greatest Attendance in one Even- ing	1,904	2,037	—	—
Smallest do.	823	470	—	—

The greater number of Visitors in 1866-7 over 1867-8, was due to the attraction caused by the acquisition of the Mayer Collection.

Compared with the *average of five years*, the total number of Visitors in 1867-8 is very nearly 10,000 in excess, as shown by the following figures:—

Total Number of Visitors in 1867-8	463,851
Average of the five years preceding 1867-8	453,914
Excess in 1867-8	9,937

DONATIONS.

A Collection, chiefly of Marine Specimens, collected between Liverpool and Hong-Kong; and an Engraved Two-Edged Sword, from the Sulu Islands; presented by Captain F. E. Baker, ship "Niphon," Associate of the Literary and Philosophical Society of Liverpool.

A Rare Cetacean, 8 feet long; a Stuffed Dolphin; a Bonito, and a species of Tunny; a Saw Fish (*Pristis*); a *Rhinobatus*; and a Collection of Marine Specimens, made between Liverpool and Kurrachee; presented by Captain Berry, ship "Richard Cobden," Associate of the Literary and Philosophical Society of Liverpool; also 60 Specimens of Fish procured in Kurrachee.

Specimens of Volcanic Rocks from Iceland; Specimens of the Rorqual, and 14 Vertebræ, Ribs, &c., of the same; also a mass of Barnacles, parasitic on the Finner Whale; presented by Mr. Henry Bird.

Named Specimens of 29 species of British Spiders; presented by Mr. John Blackwall.

Specimens of two Rare species of Beetles, from Rannock, Perthshire; presented by Mr. Alfred Bloomfield, per Rev. Mr. Carter, Walton.

A Racoon; presented by Mr. John Bragg.

A Bottle of Squids (*Sepia*), from Alexandria; presented by Capt. Browne, s. s. "Agia Sofia," Associate of the Literary and Philosophical Society of Liverpool.

A live Chameleon, from Alexandria; presented by Mr. James Brownbill.

A very young specimen of the Narwhal (*Monodon monoceros*), and a small Narwhal tusk, $10\frac{1}{2}$ inches long, from the Arctic Seas; presented by Mr. D. Bruce, Dundee Whaling Company.

A Monkey (*Cercopithecus* —), from Zanzibar; presented by Mr. Henry Buxton.

A polished Marble Slab (inscribed with Eastern Characters), supposed to have come in ballast to Carnarvon, from whence it was brought into Liverpool; presented by Mr. John Chater.

Two Specimens of the Ring Ouzel (*Turdus torquatus*), male and female, from Portsmouth, near Todmorden; presented by Mr. Thomas Chaffers.

Two Pendulous Wasps'-Nests, from Guiana; twelve barbed and other Implements of Bone, from the caves of La Madelaine, Dordogne, France; and 9 Casts of Pre-historic Bone Implements, carved with figures of Wild Animals, from originals in the Christy Collection; presented by the Trustees of the Christy Collection, London.

A Case of Insects, consisting of 300 named specimens of British Hymenoptera, Diptera, &c.; presented by Mr. Benjamin Cooke.

A Wrasse, from the Mersey; presented by Mr. Robert Cooke.

A Merlin Hawk (*Falco aesalon*), killed at Wallasey; presented by Mr. N. Cooke.

A Manis (in spirit), from Sierra Leone; presented by Captain J. W. Davies.

A Crocodile, from Old Calabar; presented by Mr. Ditchfield.

A living Proteus, from the caves of Adelsberg, Austria, and 2 Beetles, from the same caves; collected and presented by Mr. J. M. Dove.

Two living North American Cat-fish, one Perch, and a Dace, four Reptiles and two Snakes; presented by Mr. A. Downes, Halifax, Nova Scotia.

A fine Skull of a Grampus, or Killer, caught off the coast of Peru; presented by Captain Duckett.

A young Bottle-nose Dolphin; presented by Mr. C. J. English.

Impressions in Wax of 150 German Ecclesiastical, Royal, Knightly, and Corporate Seals; collated by Mr. Gustaf Colman, of Coblenz, and presented by Mr. Quintin Fleming.

Two Bottles of Reptiles, from Calcutta, and the head of a large Fish; presented by Captain Fletcher, ship "Sumatra."

A Collection of Bone Implements, Fragments of Pottery, and other articles, from the ancient Lacustrine dwellings of Switzerland; presented by Mr. Christian Flück.

A Snake, from the Upper Amazon; presented by Mr. Leon Foinquinos.

Cast of a Model of a Stone Cross, the original found at Glencairn, Dumfriesshire; presented by Mr. J. A. Forrest.

A Double-barrelled Rifle Pistol (made about the end of the 18th century) found in the River Trent, at Hazleford, near Nottingham; presented by Mr. S. Goodacre.

A remarkably-preserved specimen of a Cat and Mouse, found on removing the flooring of a very old house, at New Ross, Ireland, in 1825; presented by Mr. S. R. Graves, M. P.

The Nest of a Weaver Bird, from Duke's Town, Old Calabar; presented by Rev. A. B. Grosart.

A Cast of the lower Jaws of a Mastodon, taken from a nearly perfect skeleton recently found near Albany, New York; presented by Professor Hall, State Geologist, New York.

A Model of a Dutch Galliot, and a Model of the "Teazer" Pilot Boat; presented by Captain Hudson.

The Larva of a large Timber-boring Beetle; presented by Mr. Henry Hyde.

A Lump Fish (*Cyclopterus lumpus*) from the Coast of North Wales; presented by Mr. Isaac, Fish Market.

Three Shells, from Newfoundland, and a Newt and two Minerals, from Nova Scotia; presented by Mr. Matthew Jones.

Five Trout, from Llynffynnon; collections of Living Fish, Sea Anemones, &c., from Pwlheli, and Port Dynlleyn; and two living Specimens of Hippocampus, from the Mediterranean; presented by Mr. W. Joynson.

Five Poisoned Arrows (tipped with bone); presented by Dr. Wm. Leech.

A Pike, weighing 30 lbs, from Lough Arrow, County Sligo; caught and presented by Mr. A. S. Lowndes.

A young Male Giraffe, from North Africa; presented by Mr. William Manders.

Twenty Specimens of Shells (*Oliva ispidula*, and its varieties); presented by Mr. F. P. Marrat.

Specimens of Ancient Pottery, from Central America; Impressions of Seals; an Anglo-Roman Brooch; specimens of Samian Ware, &c.; a Pint Mug of Liverpool Ware, with the Lighthouse, Bidston Hill, &c., painted in colours; a Cup and Saucer of Wedgwood Ware; a Cup and Saucer of Limbach Ware, and a Cup and Saucer of Wesp (Dutch) Ware; a Dish of Early English Ware; a Supplementary Collection of 2,371 Medallions and other small objects of Wedgwood Ware; a Collection of 70 Polished and Cut Agates, &c.; an Emerald *in situ* on Calc Spar, from Santa Fé de Bogota; a

remarkably fine Cross Bow; a Musket of the 17th century; two Cross Bows, and 17 volumes of Books and Engravings; presented by Mr. Joseph Mayer, F.S.A.

A Hindoo Figure (in papier machée); part of a Marble Column from the ruins of Carthage; 7 fine Corals; a large Box-fish (*Ostracion*); a very large pair of Shark's Jaws, from Realego; a Tortoise-shell; 3 Nests of Weaver Birds on a Palm Branch; and a fine *Echinus* shell; presented by the Mercantile Marine Association, per Mr. Clarke Aspinall, Honorary Secretary.

Two fine Fossil Corals (*Syringopora geniculata*), from the Mountain Limestone of Holywell; and 11 Specimens of Rocks, from the neighbourhood of Liverpool; named and presented by Mr. G. H. Morton, F.G.S.

A Sea-pen (*Pennatula*), from the Firth of Clyde; presented by Mrs. John Naylor.

An Indian Jackal; a Red Coati-Mondi; a Mona Monkey, and a Brown Coati-Mondi; presented by Messrs. Newby.

A Malay Kris; an Egg of a Caracara Vulture; a Lizard, a Squid, 2 Fishes (*Diodons*), 10 Cirrhipeds, and several Crustacea and Insects from China, Portugal, and Brazil; 3 living Freshwater Fish, from Rio Janeiro, and a collection of Marine and other Specimens, including some fine examples of *Siluridæ*, or Cat-fish, from the River Plate; collected and presented by Captain Perry, s. s. "Humboldt," Associate of the Literary and Philosophical Society of Liverpool.

A Specimen of Marcasite, from the Harlech Mines; presented by Mr. J. A. Picton, F.S.A.

A Specimen of Sussex Marble; Samples of the upper Peat Bed at Leasowe, containing specimens of Sea Shells; a Primitive Malleus or Hammer, of Granite, found on the North Docks Quay in 1867, and supposed to have been brought in ballast from the United States; also a Granite Upper Stone, or "Rider," of a Quern or Handmill, found among ballast at the North Docks; presented by Mr. Charles Potter.

The Skull of a Camel; presented by Mr. J. Price.

2,000 Ova of the Salmon; presented by Mr. Westall Ramsbottom.

A young Red-throated Diver, from Ireland; presented by Mr. A. Ruthven.

A Bust of Lorenzo de Medici; presented by Mrs. Rathbone.

Eleven Specimens of Pottery, from Algiers and Kabylia ; collected and presented by Mr. P. H. Rathbone.

A Collection of Eggs, of 60 species of North American Birds ; presented by Miss Rimmer, of Montreal.

Twelve living Shell-fish (*Lima hians*), and their Nests ; presented by Mr. David Robertson, Glasgow.

A Collection of 30 Specimens of Fish (including five Electric Fish, *Malapterurus*) ; 12 Birds, and 2 Reptiles in spirit ; a Crocodile Skin, and 2 Native Musical Instruments, chiefly from Benin ; presented by Captain Robinson.

A Burbolt (*Lota vulgaris*), from the Goole Dyke, near Tickhill, Yorkshire ; presented by Mr. F. H. Salvin.

Fourteen Bones of the Dodo, one of a Wading Bird, and two Reptile Bones, from Mauritius ; presented by Mr. Walmsley Stanley.

A remarkable Fish (*Platax punctulatus*), brought up with the mud on the fluke of an Anchor in Banka Straits ; presented by Captain Taylor, ship "Advance."

A New Zealand Fish Hook ; presented by the Rev. R. Taylor.

Twelve Specimens of Rocks, from the Wealden of Sussex ; presented by Mr. George Thomas.

A Collection of Butterflies, from the Cameroons River, West Africa ; presented by Mr. Quintin Thomson.

Two large Slate Aquaria, and Fittings ; presented by Mr. P. F. Tinne.

The Skulls, and portions of the Skeletons, of two Lamantins, or West African Manatees ; a skin of *Potamogale*, and Specimens of Reptiles, Fish, and Insects, from the Gaboon and neighbouring Coast ; from Mr. R. B. N. Walker, F.R.G.S., Corresponding Member of the Literary and Philosophical Society of Liverpool.

A Skin and two Skulls of an Eared Seal, killed at Islay ; also six Crabs, a Sponge, and two Fish Teeth, from the West Coast of South America ; presented by Captain Cawne Warren, Associate of the Literary and Philosophical Society of Liverpool.

A Specimen of Fossilised Wood, containing Insect-borings ; two Specimens of Mocha Stone, from India ; and Specimens of *Posidonia* ; presented by Mr. R. Weaver.

A live Scorpion, found among Fustic Wood from New Grenada ; presented by Mr. J. C. Wilcocks.

The Jaws of two Sharks; presented by Captain Williams, ship "Jessica."

A Collection of Fish, Reptiles, &c., from Calcutta; six Fish, a Squid, three Prawns, and a *Pteropod*, from the River Hooghly and the Indian Ocean; presented by Captain Wise, ship "Comorin."

Two young Sharks, from the Atlantic; presented by Mr. Wright, Woodchurch, Oxton.

The Skin of a "Greenland Seal" (taken at Iceland in May, 1867); presented by Mr. John Wolfe.

Minor Donations have been received from Mr. Dennick of Talacre, Mr. Fred. Estill, Mr. John Ireland, Mr. Matthews, Messrs. Kelsall Brothers, Mr. Andrea Pitoni, Mr. Pyzer, and Mr. Tyerman.

PURCHASES.

A Black-faced Chimpanzee, and 29 other Mammalia.

Nineteen Birds.

The Skin and mounted Skeleton of a large Rock Snake (16 feet in length), from Guinea, and 11 other Reptiles.

A British Specimen of the Fox-tailed Shark, or Thresher (*Alopias vulpes*); two fine Specimens of the Sting Ray (*Trygon pastinaca*) taken off the Mersey; and 49 other Fish.

Fifty-two Shells and other Molluscs, and a small series of Australian *Polyzoa*.

Eighteen hundred and eighty-eight selected Insects. These have been most carefully and beautifully arranged, as well as named, by the Rev. H. H. Higgins; and the series, now nearly complete, will be a most interesting and valuable collection of Insects of all orders, aided as it is by several donations mentioned in this and previous Reports.

Fifty Crustacea (Crabs, Lobsters, &c., &c.)

Two Sea Urchins, from Swan River, and a Star-fish.

A very large Specimen of the huge Sponge, called 'Neptune's goblet' (*Thalassema Neptuni*) and illustrations of 166 Corals, Sea Fans, Sponges, &c.

Ten mounted Skeletons, including the *Tarsier*, *Nycticebus*, Chetah, &c., and ten Skulls, chiefly Mammalian.

A fine series of 23 Fossil Crustaceans (*Slimonia*, *Pterygotus*, and *Eurypterus*, locally termed 'Seraphim'), from the Upper Ludlow Rock, Lanarkshire; and 44 other Fossils.

EXCHANGES.

Eighteen Exotic Butterflies, received from Mr. W. C. Hewitson, in exchange for duplicate ditto.

Eight living Cat-fish, Perch, Dace, and Reptiles, received from Mr. A. Downs, Halifax, Nova Scotia, in exchange for living English Carp and Tench.

A Japanese Pheasant (*Phasianus Sæmmeringii*, variety *scintillans*), and other specimens, received from Mr. J. R. Wallace, Museum, Distington, for duplicate Reptiles, &c.

Three Slabs of Fossil Fish, from the Orkneys, and an Axolotl, received from the Andersonian Museum, Glasgow, in exchange for a set of Casts of Dodo bones.

A Collection of 13 Stone Celts, from France, Belgium, and Denmark; a carved New Zealand box, and other objects; received from the Trustees of the Christy Collection, London, in exchange for 12 duplicate Clubs, Spears, &c.

Advances towards exchanges have also been made to the Museums at Lisbon and Buenos Ayres; and to the Aquarium Department of the Zoological Gardens at Hamburg, through the kind offices of Captain Perry, of the s. s. "Humboldt," and Captain Howison, of the s. s. "Navarre."

LECTURES.

During the season of 1867-8, five courses of Lectures were delivered in the Theatre of the Museum, by

- Mr. T. J. MOORE, on Zoology,
- Mr. N. SAMUELSON, on Chemistry,
- Mr. BISHOP, on Drawing,
- Mr. MARRATT, on Precious Stones, and
- Mr. MORTON, on Geology.

CORPORATION SCHOOLS.

The Schools supported by the Corporation of Liverpool, and now placed under the management of this Committee, continue to be carried on with considerable efficiency, their usefulness being only limited by the extent of accommodation.

The Statistics are as follows:—

	North School.	South School.
Average number on the books.....	2022	1454
Ditto weekly attendance—		
Boys.....	781	530
Girls.....	400	322
Infants	233	212
Evening..	195	133
	1609	1197

The amount of School-Fees received has been:—

North	£377 14 9
South	323 13 0
	<u>£701 7 9</u>

A Provident Clothing Fund is in operation in each School, the deposits have been, during the year:—

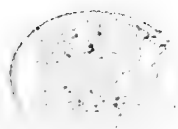
North School	£304 17 11
South do.	233 0 9
	<u>£537 18 8</u>

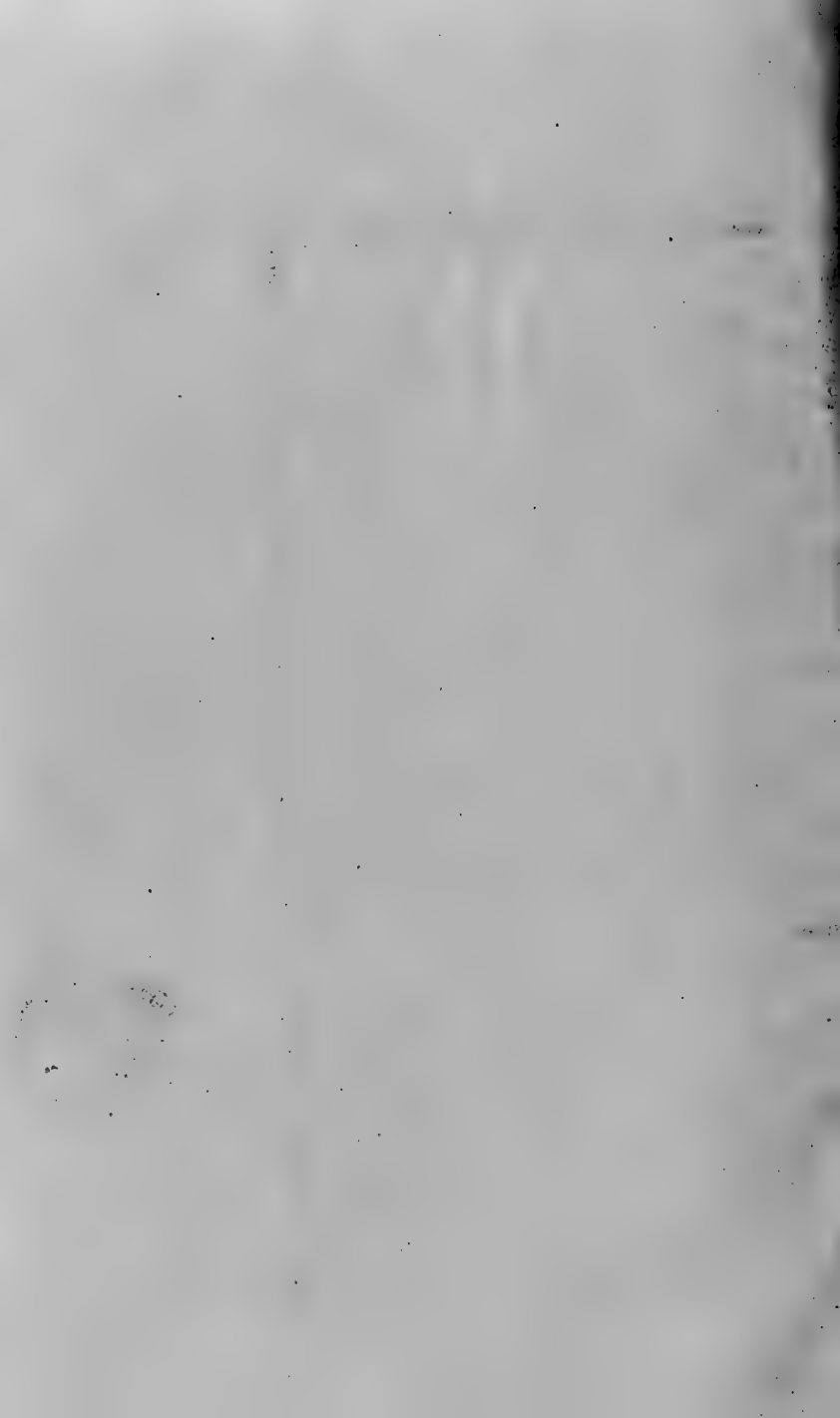
A Scholarship to the Lower School of the Liverpool College has been placed at the disposal of the Committee, for the most deserving boy at the North School. At the South School, the Rev. Dr. Dawson Turner, Head Master of the Royal Institution Schools, has generously offered to give the advantages of a superior education at the Royal Institution to any deserving boys who may be recommended by the Committee.

PRESENTED

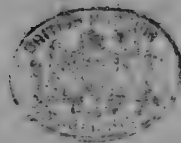
15 JUL 1898







SEVENTEENTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM AND SCHOOLS,
OF THE
BOROUGH OF LIVERPOOL,
FOR THE YEAR ENDING AUGUST 31st, 1869.



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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 309

LECTURE 10



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OFFICERS AND COMMITTEE

FOR THE YEARS 1868—1869.

Committee.

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EDWARD SAMUELSON, DEPUTY-CHAIRMAN.

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P. H. RATHBONE,

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Chief Librarian.

GEORGE HUDSON.

Superintendent of the Lending Libraries.

PETER COWELL.

Curator of the Derby Museum.

THOMAS J. MOORE.



REPORT.

THE Committee have pleasure in reporting a continued increase and progress in the departments under their charge, as will be seen from the subjoined statements.

In the Act of Parliament under which the establishment of the Institution was authorised, it is entitled the "Liverpool Library, Museum, and Gallery of Arts." The two former are in active operation, the latter has hitherto had no existence. Reference was made in the last report to the resolution of the Council sanctioning the erection of a Gallery of Arts, at a cost not exceeding £10,000, provided the interest and redemption fund can be defrayed out of the rate of a penny in the pound levied under the Act. After careful consideration of the current expenses which are absolutely necessary to maintain the Institution in its present efficiency, the Committee cannot honestly declare that the proceeds of the rate are sufficient for this purpose. The erection of the new Gallery must therefore be postponed to a more convenient season. The Committee deeply regret this, believing as they do, that a proper system of Art Education would be of essential benefit to all classes, especially to the working class, both intellectually and morally, whilst it would contribute materially to the improvement of our manufactures and the prosperity of our artisans. One per cent. of the money which has lately been expended in public parks, would have provided a Gallery of Art, which there is every reason to believe, would have been speedily filled by donations

of pictures and sculptures. The Mayer collection, to which additions have been made from time to time by its liberal donor, is by no means accommodated as it ought to be for its due development, but no means exist for the purpose in the present building. The Committee feel that they have done all in their power, and must relegate the subject to a future period when there may be less indifference in the Council, and less apathy in the public.

The Statistics of the respective Departments are as under :—

REFERENCE LIBRARY.

During the past year, the average number of books issued and returned has been 2,192 per day, the yearly circulation numbering 624,619 volumes, against 565,344 during the previous year.

The following is a Classified List of the Books issued :—

Classification.	Volumes.	Daily Average. about
Theology, Morals, and Metaphysics	17398	61
Natural Philosophy, Astronomy, Chemistry, &c.	16849	59
Natural History, Botany, Mineralogy, &c.	7003	25
Science and the Arts, Architecture, Painting, Music, &c.	36462	128
History and Biography	37925	133
Topography and Antiquities.....	11452	40
Geography, Voyages, and Travels	30735	108
Miscellaneous Literature	215953	758
Jurisprudence, Law, and Politics.....	5235	18
Commerce, Political Economy, and Social Statistics..	3624	13
Education, Logic, Language, &c.....	11422	40
Poetry and Dramatic Literature	23197	82
Works of Imagination	194410	682
Classical Literature.....	3517	12
Heraldry, Encyclopædias, and Works of Reference...	9437	33
	<u>624619</u>	<u>2192</u>

Along with the increase of the issues, a gradual change in the class of reading sought for is perceptible in the greater demand for the more instructive kind of books. During the past year the proportion of works of imagination has diminished from $33\frac{1}{2}$ per cent. in the previous year to 31 per cent. whilst in miscellaneous literature the issues have increased from 29 per cent. to $34\frac{1}{2}$.

During the year, 1,636 volumes of Books have been added to

the Library, viz., 1,418 by purchase, 110 from the Commissioners of Patents, and 108 volumes by donation, under the following heads :—

Classification.	1868.	Additions.	1869
Theology, Morals, and Metaphysics.....	3832	195	4027
Natural Philosophy, Astronomy, &c.	1211	21	1232
Natural History, Botany, Mineralogy, &c.	2590	87	2677
Science and the Arts, Architecture, &c....	4966	229	5195
History and Biography.....	6948	193	7141
Topography and Antiquities	2164	45	2209
Geography, Voyages, and Travels	3055	65	3120
Miscellaneous Literature.....	8569	424	8993
Jurisprudence, Law, and Politics	4118	127	4245
Commerce, and Social Statistics.....	430	18	448
Education, Logic, Language, &c.	706	28	734
Poetry and Dramatic Literature	2151	73	2224
Works of Imagination	5035	81	5116
Classical Literature	311	6	317
Heraldry, Encyclopædias, and Works of Reference	1555	44	1599
	<u>47641</u>	<u>1636</u>	<u>49277</u>

LENDING LIBRARIES.

The following statistics shew the work done during the year at these libraries :—

	North Library.	South Library.	Total.
Number of Volumes lent.....	214519	224420	438939
Total Number of Volumes in the Libraries	19527	19952	39479
Number of Volumes added	487	514	1001
Number of Volumes Worn out and Replaced	968	613	1581
Number of Volumes Worn out, Withdrawn	169	430	599
Number of Volumes lost or injured and paid for, or replaced by borrowers	17	33	50
Books wholly lost to the Libraries.....	3	9	12
Number of New Tickets Issued	2185	2307	4492
Number of Tickets Renewed	1863	2254	4117
Number of Tickets Cancelled.....	2054	1981	4035
Number of Readers on the Books	4056	4561	8617

The strict system of annually revising the Readers' Tickets tends very much to strike off the books mere nominal Readers, as is evinced by the fact that notwithstanding the large number of new tickets issued during the year, viz., 4482, the net increase only amounts to 457. Since the opening of the Libraries in the year 1853, 62965 tickets have been granted, while the Readers

entitled to use the Libraries at the present time number no more than 8617.

The following Table shows the Classification of the works lent :—

	North Library.	South Library.	Total.
Theology, Morals, and Metaphysics	4819	4931	9750
Natural Philosophy	1751	2222	3973
Natural History	1184	1727	2911
Science and the Arts	5534	5438	10972
History and Biography	12235	11231	23466
Topography and Antiquities	758	987	1745
Geography, Travels, and Adventure	4687	5562	10249
Miscellaneous Literature, (principally Magazines).....	18664	21454	40118
Jurisprudence, Law, and Politics	341	370	711
Commerce, Social Science, and Political Economy	492	828	1320
Education, Rhetoric, Logic, and Language	2444	1844	4288
Poetry and the Drama.....	1901	2293	4194
Light Literature	159520	165130	324650
Latin and Greek Classics and Translations	86	236	322
Embossed Books for the Blind	103	167	270
Total Vols.....	214519	224420	438939

It will be seen that light literature constitutes three-fourths of the whole issues. This is naturally to be expected. The lending libraries are for the recreation of the toiling multitudes, and it is something to be able to supply for this purpose a sound and wholesome literature.

Of music, there have been 3405 volumes lent, consisting of Operas, Oratorios, Sonatas, Symphonies, &c., among the more popular of which may be named Don Giovanni, Der Freischütz, Il Trovatore, Satanella, The Messiah, The Creation, Elijah, Beethoven's and Mozart's Sonatas.

Of the 270 books for the Blind issued, 119 were portions of the Scriptures, and 151 Miscellaneous. The latter head comprises a History of England, a Grammar, a Geography, a Biblical Dictionary, The Pilgrim's Progress, Lives of Watt, George and Robert Stephenson, and various other Biographies, several volumes of Poetry, and a number of amusing Tales and Stories.

A New Supplement to the North Library Catalogue was published in February, of which 1096 copies have been sold, at Threepence each.

The sale of the Complete Catalogue of the South Library proceeds very satisfactorily, the number sold during the year being 1092 copies.

The receipts have been:—

For Fines	£146	3	0
Catalogues	72	12	0
Tickets	73	16	8
Miscellaneous	4	5	5
	<hr/>		
	£296	17	1

The Committee continue to be indebted to Mr. R. A. Macfie, for his Donation of the volumes, as published, of the Ante-Nicene Christian Library. Other Donations have also been thankfully received from Mr. T. Harris, Mr. W. J. Proudfoot, and Mr. C. Parkinson.

It is found, practically, that with the present accommodation and staff, the present circulation is the greatest amount possible.

The issue of 439,000 volumes during the year involves double the number putting over the counter, which is equivalent to 2813 per day of ten hours, or an average of 140 per hour in each library. In the winter, and especially in the evenings, this average is trebled.

MUSEUM.

STATISTICS.

	1867-8	1868-9	Increase in 1868-9
Day Visitors.....	424,347	462,892	38,545
Evening Visitors	39,504	44,000	4,496
TOTAL	463,851	506,892	43,041
Average of Day Visitors.....	1,992	2,163	171
Average of Evening Visitors	1,519	1,760	241
Greatest Attendance in one Evening	2,037	2,929	—
Smallest " "	470	813	—

Compared with the average of six years, the total number of Visitors in 1868-9 is above 50,000 in excess, as shewn by the following figures:—

Total Number of Visitors in 1868-9	506,892
Average of the six years preceding 1868-9	455,603
Excess in 1868-9	51,289

Total Number of Visitors in 1868-9	506,892
Greatest Number in any previous year (1866-7)	505,993
Excess in 1869 over any previous year	899

The total number of Visitors to the Museum from its inauguration at William Brown Street, on the 18th of October, 1861, amounts to more than three-and-a-half millions of people, thus:—

To August 31st, 1862	321,714
" 1863	427,412
" 1864	488,123
" 1865	462,648
" 1866	385,596
" 1867	505,993
" 1868	463,851
" 1869	506,892
Total.....	3,562,229

DONATIONS.

A Silver Penny of Edward I.; presented by Mr. Giles Ashworth, Salford.

A Small Slab of Trilobite Remains, from the Petroleum Shale at Hamilton, Canada West; collected and presented by Capt. Ballantyne, S.S. "Peruvian."

Specimens of Scales and other Fish Remains from the Shales of the Northumberland Coal Measures at Newsham; presented by Mr. T. P. Barkas, Newcastle-on-Tyne.

Lists of the Roman Roads in England, with ancient and modern Names attached; presented by Mr. Wm. Barrow, Lancaster.

A poisoned Java Kris; presented by Mr. Battersby, Walton.

Three specimens of two rare species of Tree Porcupines; (1 of *Cercolabes pallidus*? and 2 *Chaetomys subspinosus*) from Bahia; also Four Stycas or Anglo-Saxon Coins of mixed metal, believed to be part of a large number found in Hexham Churchyard, Northumberland, in 1833; presented by Mr. George Bell.

A Collection of Coal Fossils and Minerals, collected by the late Dr. Birkenhead, and presented by his Widow.

The Jaws of a Shark from the North Pacific; presented by Mr. James Bland.

The head of a *Cerastes* or Horned Snake, from the West Coast of Africa; presented by Capt. Burns, ship "Verena."

A Puzzle Jug of early Staffordshire Ware; A Dish of early

Staffordshire Ware; A Vase of early Silver Lustre Staffordshire Ware; and an Oval Fruit Dish of Basket Work; presented by Mr. Henry Buxton.

A large Crab, from Pedro Banks, South of the Island of Jamaica; presented by Capt. A. Campbell, barque "1st of May."

A Sucking Fish (*Remora*), with white longitudinal bands, from Natal Bay, collected and presented by Mr. G. L. Chavannes.

A Chameleon, from Port Elizabeth, South Africa; presented by the Editor of "Science Gossip."

A young Chameleon (one of seven born *alive*, in the possession of Lady Cust at the end of July, 1868, and died within a few days); presented by the Honourable Lady Cust.

A living Tortoise Shell Turtle (*Chelonia imbricata*) from Florida; presented by Captain Davis, Bootle.

The Shell (upper and lower) of a rare species of Mud Turtle (*Trionyx nilotica*), brought to the Camerons from the far interior; presented by Capt. Davis, ship "Mandingo," per Mr. R. J. Keen.

A very fine specimen of a small Spotted Sting Ray (genus *Taeniura*) from Singapore; presented by Mr. S. Davies, per Mr. F. Archer.

The following objects bequeathed by the late Capt. Dayman, R.N.: One large Gold Medal, presented to him by the City of New York; One large Gold Medal, presented by the Chamber of Commerce and Citizens of New York; and an Address on vellum, presented to him by the Mayor and Corporation of New York, and rolled on a piece of Telegraph Cable with clasp and ends of gold—commemorative of the part taken by him, as commander of H.M.S.S. "Gorgon," in laying the first Telegraphic Cable between Europe and America, in August, 1858.

A Cabinet of Insects (chiefly collected by an Expedition sent in 1840 from Knowsley to the interior of South Africa); presented by the Earl of Derby, K.G.

An extremely fine Group of Coral (*Madrepora formosa*) collected in Annesley Bay, and presented by Capt. Donald, ship "Preston."

A Death's Head Moth, caught in the Mediterranean, about 90 miles off the coast of Malta; part of the Snout of a Swordfish (*Histiophorus*) taken from a small steam hole in the hull of the iron steamer "Ecuador," July 22, 1850, by the Commander, Captain S. T. Downes, and by him presented to the Museum, with explanatory note.

A young Porbeagle Shark (*Lamna cornubica*) caught in the herring nets off the Island of Barra, in the Hebrides; presented by Messrs. John Duncan & Co.

A Footprint of *Cheirotherium*, from Storeton; presented by Mr. Dwyer.

A Mediæval Bronze Cauldron, found at Rhuddlan Castle, near St. Asaph; presented by Mr. Thomas Edwards.

A Coral Snake and a Banded Lizard, from Brazil; presented by Capt. W. H. Ellis, S.S. "Ptolemy."

A fine specimen of the Ermine (or Stoat in white or winter fur), killed near Flint (Jan. 15, 1869); and presented by Mr. A. W. Emery.

A Brown Coati-Mondi; presented by Mr. J. O. W. Fabert.

Two specimens (male and female), and a Cocoon, of the Japanese Silk Moth (*Bombyx yamamai*), raised at Seaforth from the eggs, fed on the common oak, and presented by Miss Fanny Golding.

Specimens of Sandstone from Wavertree Park, showing Glacial Markings; presented by Mr. Thomas Gore, Wavertree.

A Gazelle from Muscat; presented by Mr. S. R. Graves, M.P.

A very fine Stone Celt, found in Lee County, Iowa, formerly occupied by the Sac or Fox Indians; also four small Arrow or Spear Heads of Stone, used by these Indians; forwarded and presented by Mr. Frederick Greer, Montrose, Iowa.

A Shell (*Pyrula morio*) covered with its epidermis, from West Africa; presented by Mr. E. Hannah.

Two Leg Bones of a "Megatherium?" found imbedded on the banks of the River Quebracho, Banda Oriental; two imperfect Skins of an Armadillo and a large Lizard, from the same country; and a Bridle and Bit (used by the donor for some years in the Banda Oriental); presented by Alfred Hart, Esq.

A collection of Fish and Reptiles from Ceylon, collected and presented, together with a list of Native Names, by Mr. George Hawkins (Corresponding Member of the Literary and Philosophical Society of Liverpool), Colombo.

Two Tapayaxins or "Horned Frogs," (*Phrynosoma cornubica*.) from Galveston; presented by Capt. Henry, barque "Atalanta," per Capt. Borlase.

A Hornet, from Norwich; presented by Mr. Alfred Higginson.

A Collection of Fossil Plants, from the Oolite of Scarborough; Fish Teeth, from the Forest Marble Beds of Wilts, and other specimens; presented by Mr. S. B. Jackson.

Two living Tortoise Beetles ; presented by Mr. J. G. Jacob.

A specimen of *Sigillaria*, embedded in coal, from Strangeways Hall Colliery, Wigan, and a large case of Coal Plants, from the same Colliery ; presented by Mr. James H. Johnson, Manager.

Three Fish (*Lichia glauca* and *Pagellus*), a remarkable Cuttle Fish, taken off Messina ; a Squilla and five Fish, all from the Mediterranean ; presented by Captain Joy, S.S. "Albanian," per Mr. R. J. Keen.

Specimens of the white and buff varieties of the Sea Anemone, *Actinoloba dianthus* ; collected and presented by Mr. W. Joynson, (for the Aquaria).

A Horse-Shoe, found on the line of the Roman Road under Blackstone Edge, and an Earthen Cullender of the Sixteenth century ; presented by Mr. John King, Ainsdale.

A Strip of Steel, 23 feet long (produced in turning a screw tap 8 inches long) ; presented by Messrs. Lamport and Holt.

A Brass Snuff-Box, containing the obverse and reverse of a bronze medal in memory of William Pitt ; presented by Mr. E. Landon.

An Oil Painting of a Battle Piece, attributed to Salvator Rosa ; presented by Mr. Charles Langton.

A Living Chameleon ; presented by Mr. Josh. Leftwich.

Two Nests of Weaver Birds and a Snake, from Old Calabar ; presented by Mr. G. B. Lenuard.

Two small Fossil Ferns (*Pecopteris*) from the Coal Measures, near Prescott ; presented by Mr. Edward Lovelady.

Three Trout, from Loch Arrow ; collected and presented by Mr. A. S. Lowndes.

A "Monkey Cocoa-Nut," from Brazil, containing larvæ of beetles feeding on the kernels ; presented by Mr. James Macalister.

Twelve Specimens of six species of Crustacea ; twelve specimens of seven species of Echinoderms ; and six specimens of four species of Corals, dredged in the Gulf of Suez, and presented by Mr. MacAndrew, per Dr. Gray, British Museum.

A Collection of Recent English Provincial Tokens, Colonial and Foreign Coins and Medals, in copper ; presented by Mr. Matthews.

A Mass of *Eschara foliacea*, taken from the hull of his ship ; presented by Captain McIntyre, ship "Montrose."

A Collection of Modern Enamels and Mosaics (thirty-two in number); an early Astrolabe with Compass; a large Ditto; a Watch Key (enamelled); a Gold Seal with head of Shakespere; a Gold Posie Ring; a British Glass Bead found at Arles; two Watches; a box of Specimens of Silver Ore; a Collection of Worked Flints, from Darly Dale, Yorkshire; a small Bronze Celt found at Arles, department du Rhone; a Possett Cup (fitted for night lights), and a Drinking Cup, both of Staffordshire Ware; a Peruvian Water Bottle, from the graves of the Incas; an Inkstand made of Oak from the "Royal George;" a raised Portrait, in Gold and Silver on Iron, of Françoise Marguerite de Silly; a large Dish of Staffordshire Ware, inscribed "*Tomkes*;" Two Palstaves of Wood, inscribed with the Calendar in Runic characters (Norwegian, 16th and 17th century); a Bassoon of Brass, from a church choir at Dijon, France; a Mediæval Carving in Bone, representing the Virgin, Child, and Attendants, and the four Evangelists; a Punch Bowl in Wedgwood Ware, printed with Masonic symbols and gilt, from a Freemason's Lodge in Etruria; a small Enamelled Swiss Watch; a Silver Indian Sword-stick; an Old Soldier's Sword; a Bronze Three-legged Cauldron; a Glass Bottle (bearing the Derby Crest), found during some excavations in 1867, near the Castle, opposite the North and South Wales Bank, Liverpool; Eighteen Specimens of Old Liverpool Ware, viz., two blue painted Punch Bowls, one by Pennington, and one by Alderman Shaw; three blue painted Dishes; thirteen blue painted Plates; one large Flemish Dish, inscribed "*Maistre Jean Pon, 1679*;" and six Italian Faience Plates, painted with birds and flowers; presented by Mr. Joseph Mayer, F.S.A., &c., &c., Vice-President of the Historic Society of Lancashire and Cheshire.

A sitting Buddhist Divinity, in Marble, from Rangoon; presented by Mr. John Miller.

The Skull of a Cetacean (*Delphinus*), taken off the Western Isles, and presented by Captain Robert Milligan, ship "Sepia."

A Tree-Wasp's Nest, from Shropshire; presented by Mr. J. Molde, per Mr. G. H. Morton.

A Specimen of Hasting's Sand, from Hastings; and a fine Specimen of Slickensides on Vitreous Copper, from Cornwall; presented by Mr. G. H. Morton, President of the Geological Society of Liverpool.

Living Specimens of the American Clam or Wampum Shell

(*Venus mercenaria*), imported from New York; two small Shark's Teeth from "Marl Beds;" and four other fossils from New Jersey, U. S. A; also a flint Arrow Head, one of great numbers found beneath the soil near Natchez, in the State of Mississippi; collected and presented by Captain Mortimer, Associate of the Literary and Philosophical Society of Liverpool.

A Chameleon, presented by Mr. Edgar Murray.

An Isopod Crustacean (*Idoteadæ*) taken from a Flying Fish, Lat. 2° N., 28° W; presented by Mr. A. Oberti.

Six Corals; presented by Mr. Sandbach Parker.

A cream Jug of Liverpool Pottery, probably by Chaffers (1750-1770), presented by Mr. J. H. B. Parsons.

Two Bottles of Reptiles from Penang; presented by Dr. Paterson.

A specimen of the Dorado and four other Fish; three Snakes and six Insects, from Rio Janeiro; a fine specimen of Onyx Agate from, Minas Geraes; a large Flying Fish; a living fresh water Fish, from the River Plate; a Three-toed Sloth; a specimen of the Heart headed Shark; a collection of Fish, from Bahia; others from River Plate; several Crustacea (*Squilla, &c.*) collected and presented by Captain Perry, s.s. "Humboldt," Associate of the Literary and Philosophical Society of Liverpool.

The Skin of a Snake, from Monte Video; presented by Mr. J. Pilcher.

A Fossil Shell (*Cardita planicostata*), from the Tertiary beds of Sussex; presented by Mr. C. Potter.

The Skull of a Camel with facial orifices covered with Membrane; presented by Mr. J. Price, Chester.

300 Salmon Ova, from the River Severn; presented by Mr. Westall Ramsbottom.

Two Skins of a Rough-backed Sting Ray; a Tiger Shark (*Stegostoma fasciatum*); a Shark Ray (*Rhinobatus granulatus*), and Beaks of Saw Fish (*Pristis cuspidatus*) from the China Seas; collected and presented by Captain Renner, ship "Hindustan," per Mr. R. J. Keen.

Specimens of Calamites &c., from Roscoe Quarry, near Adlington, received from the Rivington Water Works, per Mr. J. Rimmer, (collected by Mr. William Parry.)

A Scissor-bill (*Scythrops*); a Shark Ray; and various Birds, Fishes, Reptiles, Insects, &c. from River Bonny; collected and presented by Captain Robinson, ship "Huddersfield."

The Nest of a Weaver Bird; presented by Mr. John Elston Rogers.

The Skin and Skull of an adult brown Alpaca, and the Skin and Skull of a white Alpaca; presented by Mr. James Ryder.

A King Fisher (*Alcyon Smyrnensis*, Linn.) from the Sea of Galilee; a Roller (*Coracias garrula*, Linn.) from the Valley of the Jordan; and a fossil Vertebra (of a large Fish) found on the North Shore of the Dead Sea; collected and presented by Mr. A. M. Sandbach.

A Flint Arrow Head, from the United States; presented by Miss Anne Schofield.

A specimen of Parrot Coal, from Carron, Stirlingshire; a Slab of Sandstone, from Morecambe Bay, with singular impressions possibly the tracks of *Annelids* (Worms); also six Octohedral Crystals of Cast Iron found in a cavity of Pig Iron; presented by Mr. Joseph Scott.

Three Albatrosses of different species; and a great Grey Petrel, (*Diomedea exulans*, *D. melanophrys*, *D. fuliginosa* and *Procellaria hasitata*); presented by Mr. J. D. Shallcross.

A Bottle of large Prawns, from Rio Janeiro; seventeen Coins and Medals, viz: three Silver Roman and four Bronze Roman found at Martin, near Bawtry, Notts; five Bronze Roman found at Austerfield, Yorkshire; one Bronze Medal, (*Fortifications of Hamburg*); one Ring Dollar of New South Wales; and three pieces of "Gun Money" of James 2nd; presented by Mr. Thos. Shortt.

A small Green Snake, from Alabama; presented by Mr. Johu Sibbald.

Two Specimens of the Regadera or Venus's Flower Basket (*Eupleciella aspergillum*); presented by Captain Southward, ship "Patriot Queen."

An Abyssinian Service Book; presented by Mr. James Stevens.

Seven Mounted Maps, Diagrams, &c., illustrative of the Suez Maritime Canal; an Abyssinian Manuscript Bible; a Gold Cross taken from King Theodore by a Foreign Officer attached to the Abyssinian Expedition; an Egyptian Bronze Figure; the head of a Stone Figure; Two Terra-Cotta Figures, and 4 Casts of Ptolemaic Egyptian Coins, presented by the Chevalier de W. Stoess, Bavarian Consul.

A Hat and Bow, said to be from Japan; presented by Mr. Charles Stuart,

A Mass of Iron Ore of remarkable structure, probably organic, from a vein of Hæmatite at Water Blane, South Cumberland; and 3 small Fossils, (? *Bellerophon* and *Encrinurites*) from Iron Ore in the Mountain Limestone at Gill Brow, near Ulverstone; collected and presented by Mr. W. T. Swainson.

A sitting Buddhist Divinity, in Marble; and a Sword (inscribed C. R. 2d.) and Sheath, found at the beginning of the century or earlier in a Barn near Coventry; presented by Mr. W. H. Tansley.

A Delft Plate; presented by Mr. Frederick Thomas.

A specimen of Sulphate of Baryta; a "Beetle Stone" or *Septaria*, from Tenby, and a Vertebra of *Plesiosaurus*, from Aust Cliff, Bristol; presented by Mr. George Thomas.

A living Loggerhead Turtle (*Caretta caretta*); presented by Mr. Charles Touzel.

A large Coral, from Colon, and Specimens of Polyzoa, &c., from Australia; presented by Mr. J. S. Tyerman.

Fifteen Skins of Birds from Gaboon; presented by Mr. R. B. N. Walker, Corresponding Member of the Literary and Philosophical Society of Liverpool.

A Cornetto, (an old Musical Instrument of Russian Invention, and the only instrument with valves known previous to the Cornopean or Cornet à Piston;) presented by Messrs. R. J. Ward and Son, per Col. Steble.

A Human Skeleton (imperfect); presented by Dr. E. Watts.

A small Fish of the Genus *Platax*, and a large Brain Coral (*Meandrina*), from Annesley Bay; presented by Capt. Watson.

A Portuguese Man-of-War (*Physalia*) found stranded on the Beach near Southport, 1869; presented by Mr. Walter Weld.

A Water Rail (*Rallus aquaticus*); presented by Mr. J. H. Weightman.

A part of the Trunk of a large Silicified Palm Tree, found at Lota, near Valparaiso; and presented by Captain West, barque "River Mersey."

A large defensive Pectoral Spine of a Fossil Fish (*Gyracanthus tuberculatus Agassiz*), from the low main seam of the Northumberland Coal Measures, Newsham; presented by Mr. E. J. Wilson.

The Skull of a Cetacean (*Steno*) from the Indian Ocean; presented by Captain Wise, ship "Comorin."

Two stems of Palm Trees, and the rostrum of a Saw Fish; presented by Mr. S. R. V. Yates.

PURCHASES.

A Lion, a Puma, 2 Specimens of Salt's Antelope from Abyssinia, and 19 other Mammalia.

3 Specimens of Wallace's Bird of Paradise (*Semeioptera Wallacei*), and 21 other Birds.

A large Guinea Rock Snake, and 13 other Reptiles.

A Specimen of a Deal Fish, 2 specimens of the Port Jackson Shark, and 21 other Fish.

Two Skeletons of Birds, one of a Lizard, and 7 skulls of Mammalia.

Eight hundred Insects (selected, named, and arranged by the Rev. H. H. Higgins.)

A large Robber Crab (*Birgus Latro*), and a young King Crab (*Limulus*).

A Giant Clam (*Tridacna*), and 71 other Shells and Molluscs, Sixteen Sea Urchins, Star Fish, &c., chiefly from Australia.

Four Japanese Glass-rope Corallines (*Hyalonema*), and 55 Corals and Sponges.

A Calamite, from Huyton Quarry.

Four Living Axolotls, 3 King Crabs, and other Specimens for the Aquaria.

Thirty eight Indian Figures, a New Zealand Cloak, an Abyssinian M.S. &c.

EXCHANGES.

Three living young Sturgeons have been received from the Zoological Gardens, Hamburg, in exchange for living Specimens of the Norway Lobster, (*Nephrops Norvegicus*.)

Exchanges have been effected, or are on hand with Dr. Nagelei, Rio Janeiro, per Captain Perry, s.s. Humboldt; with the Natural History Society of Montreal, per Mr. J. F. Whiteaves; with the Museum of Zoology, Cambridge, Massachusetts, per Professor Agassiz, and Mr. Alexander Agassiz; with the Academy of Sciences of Chicago, per Dr. Stimpson; and with other Institutions and persons.

DEPOSITS.

A Statuette in Marble of a Female Figure, representing a "Georgian Woman," by Tadolini, 1862, deposited by Mr. George Martin.

Three drawers of Hymenoptera (Bees, Wasps, &c.), collected in the neighbourhood of Liverpool by the Rev. H. H. Higgins, deposited by the Royal Institution of Liverpool.

Five life-sized Portraits of Mayors of Liverpool from the Council Chamber, Town Hall, viz., Nicholas Robinson, Mayor 1828; Sir Thomas Brancker, Mayor 1830; W. W. Currie, Mayor 1835; William Rathbone, Mayor 1837; and Sir Joshua Walmsley, Mayor 1839.

LECTURES.

During the season of 1868-9, the following Free Lectures were delivered in the Theatre of the Museum :—

Ten Lectures on the Natural History of Animals, with special reference to recent discoveries, and to recent additions to the Museum, by Mr. Thomas J. Moore, Curator of the Museum.

Ten Lectures on Art, by Mr. W. J. Bishop, Head Master of the Liverpool School of Art, North District.

And Two Lectures on Minerals and the Blowpipe, by Mr. F. P. Marrat.

SCHOOLS.

The general condition of the Schools through the year has been efficient and satisfactory.

The following are the statistical returns :—

AVERAGE NUMBER ON THE BOOKS.

	North School.	South School.
Boys.....	799	658
Girls.....	465	359
Infants	326	257
Evening	316	163
	<hr/> 1906	<hr/> 1437

AVERAGE WEEKLY ATTENDANCE.

	North.	South.
Boys.....	713	594
Girls	399	316
Infants	292	205
Evening	196	126
	<hr/> 1600	<hr/> 1241

GENERAL EXPENDITURE.

	North.	South.
SALARIES—Boys' School.....	£684 10 10	£612 3 11
Girls' "	288 8 10	283 8 8
Infants' "	147 8 4	156 4 0
Evening "	143 14 1	162 0 0
Clothing Bills	£388 0 7	£280 13 4
Less received	306 15 8	226 7 11
	£81 4 11	54 5 5
Books, Stationery, &c.....	69 17 6	128 11 7
Coals, Water, and Gas.....	47 15 7	52 14 3
Church accommodation	20 0 0	
Insurance	6 15 0	5 5 0
Cleaning.....	57 4 0	68 3 0
Petty disbursements, including band	42 7 6	63 4 11
	1589 6 9	1586 0 9
Deduct School fees	381 11 11	303 15 1
	1207 14 10	1282 5 8

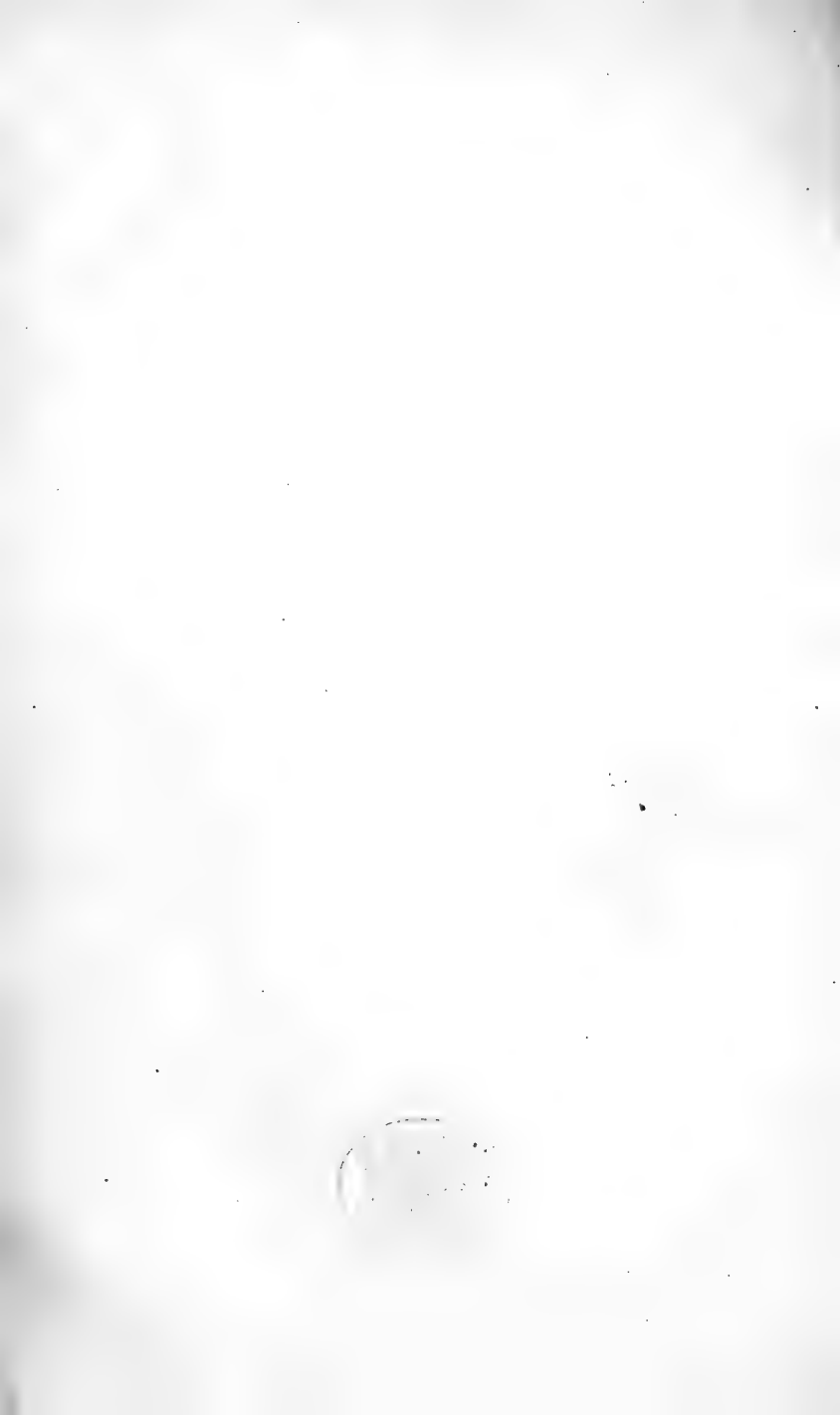
At the North School, in consequence of the numbers attending the boys' school being larger than the rooms could accommodate, it was found necessary to refuse admission until the numbers were considerably reduced.

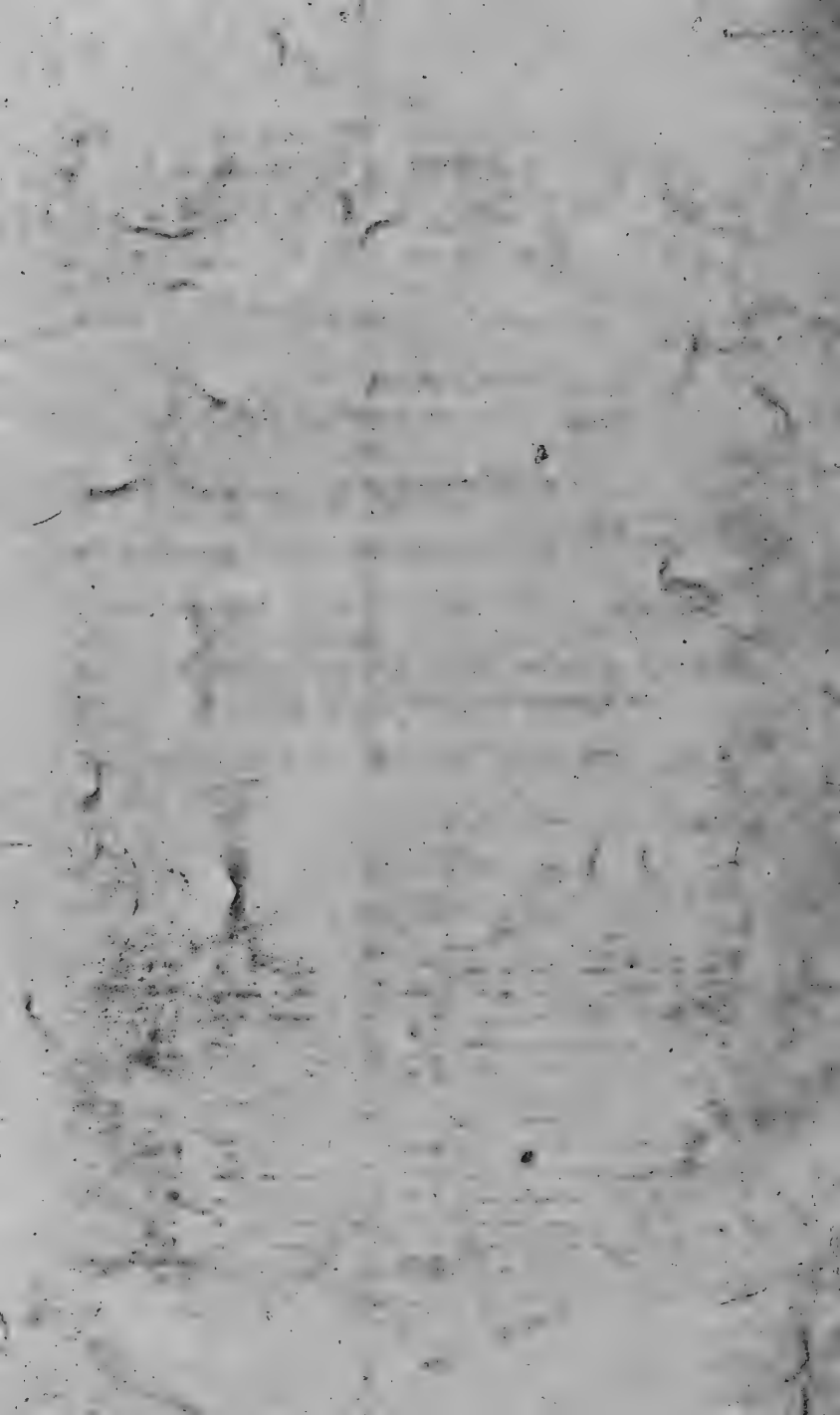
At the South School, owing to the same cause, it has been found necessary to erect a new room for additional accommodation for the boys, which has been done at an expense of £525, and is now fully occupied.

The Committee have long felt it a great desideratum that these schools should undergo a thorough periodical examination by a competent inspector; but there have been great difficulties in the way, the action of the government inspectors being limited to those schools which receive grants from the Privy Council. This difficulty has now been overcome, and in future a periodical inspection and report will be made by a government inspector.

15 JUL 1898







EIGHTEENTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM AND SCHOOLS,
OF THE
BOROUGH OF LIVERPOOL,
FOR THE YEAR ENDING AUGUST 31st. 1870.



LIVERPOOL:
THE LIVERPOOL PRINTING AND STATIONERY CO., LIMITED,
38, CASTLE STREET.

1870.

STATE OF NEW YORK

IN SENATE,

JANUARY 15, 1908.

REPORT

OF THE

COMMISSIONERS OF THE LAND OFFICE

FOR

THE YEAR ENDING DECEMBER 31, 1907.

ALBANY:

AND

SYRACUSE:

1908.

ALBANY:

AND

SYRACUSE:

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1870.

1870

THE UNIVERSITY OF CHICAGO

LIBRARY

PHYSICS

1870

LIBRARY

PHYSICS

1870



OFFICERS AND COMMITTEE

FOR THE YEARS 1869—1870.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

EDWARD SAMUELSON, DEPUTY-CHAIRMAN.

JOSEPH HUBBACK, MAYOR.

WILLIAM BENNETT,

P. H. RATHBONE,

THOMAS AVISON, F.S.A.,

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JOHN HUGHES,

J. JACKSON,

P. H. HOLT,

J. HOUGHTON,

LIEUT.-COL. JAMES C. BROWN,

REV. H. HIGGINS,

JOSEPH MAYER, F.S.A.

Chief Librarian.

GEORGE HUDSON.

Sub-Librarian.

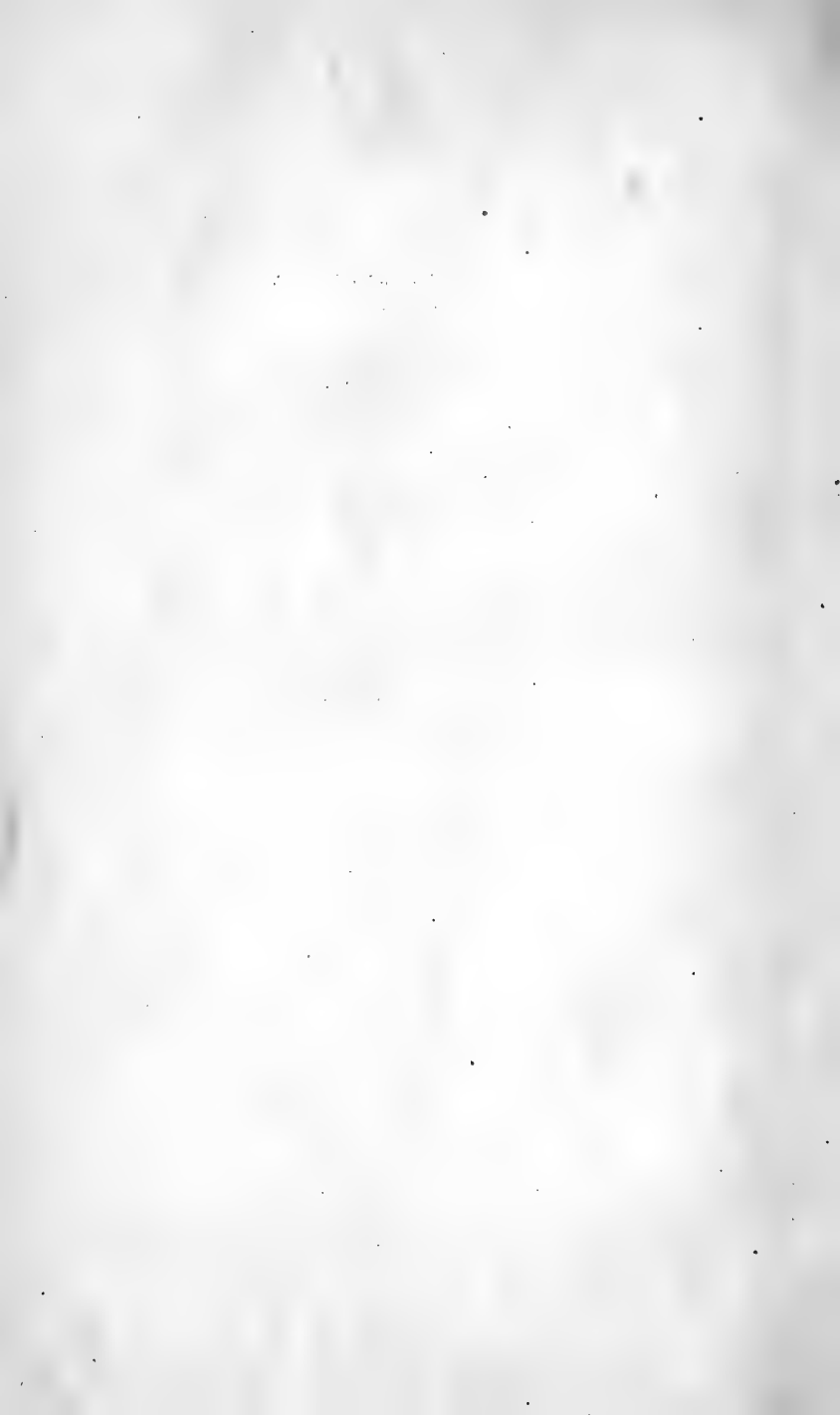
THOMAS FORMBY

Superintendent of the Lending Libraries.

PETER COWELL,

Curator of the Museum.

THOMAS J. MOORE.



REPORT.

—:0:—

THERE is little to report during the course of the past year, except the quiet, steady, useful operation of each department of the Institution.

During the last meeting of the British Association for the Advancement of Science, which was held in Liverpool, the entire building in William Brown Street was devoted to the purposes of the meeting. The great hall was appropriated for daily assembly, and offices; a portion of the reading-room and the students' room served for reading and correspondence, and several of the sections were accommodated in the theatre and other parts of the building. One of the soirées was held at the Institution, when all the departments were lighted up and thrown open to the visitors. The arrangements generally appear to have given satisfaction.

The necessary closing of the building to the public during some weeks, for the meeting and for cleaning and painting, was an inconvenience to the ordinary frequenters, but was cheerfully submitted to without any complaint.

The statistics of each department are as follows :—

REFERENCE LIBRARY.

During the past year the average number of books issued and returned has been 2,215 per day, the yearly circulation numbering 620,124 volumes, against 624,619 during the previous year.

The following is a Classified List of the Books issued :—

Classification.	Volumes.	Daily Average. about
Theology, Morals, and Metaphysics.....	16,848	60
Natural Philosophy, Astronomy, Chemistry, &c.	16,377	58
Natural History, Botany, Mineralogy, &c.....	7,098	25
Science and the Arts, Architecture, Painting, Music, &c.	43,019	154
History and Biography	33,865	121
Topography and Antiquities	11,150	40
Geography, Voyages and Travels	28,754	103
Miscellaneous Literature	238,570	852
Jurisprudence, Law, and Politics	4,956	18
Commerce, Political Economy, and Social Statistics ...	3,571	13
Education, Logic, Language, &c.	11,128	40
Poetry and Dramatic Literature	21,006	75
Works of Imagination	171,414	612
Classical Literature.....	3,515	12
Heraldry, Encyclopædias, and Works of Reference.....	8,853	32
	<u>620,124</u>	<u>2,215</u>

It is a remark worthy of notice, that, with the progress of the Library, the proportion of light literature read gradually becomes less. As compared with the previous year, the works of imagination issued have fallen from 194,410 to 171,414, whilst works in general literature have increased from 215,953 to 238,570, and science and the arts from 36,462 to 43,019. In two years the proportion of imaginative literature has fallen from 33½ per cent. of the issues to 27½, whilst general literature has risen from 29 per cent. to 38½.

During the year, 1,809 volumes of books have been added to the Library, viz., 1,621 by purchase, 116 from the Commissioners of Patents, and 62 volumes by donation, under the following heads :—

Classification.	1869.	Additions.	1870.
Theology, Morals, and Metaphysics	4,027	128	4,155
Natural Philosophy, Astronomy, &c.	1,232	35	1,267
Natural History, Botany, Mineralogy, &c.....	2,677	140	2,817
Science and the Arts, Architecture, &c.	5,195	347	5,542
History and Biography	7,141	193	7,334
Topography and Antiquities	2,209	90	2,299
Geography, Voyages, and Travels.....	3,120	63	3,183
Miscellaneous Literature.....	8,993	390	9,383
Jurisprudence, Law, and Politics	4,245	156	4,401
Commerce and Social Statistics.....	448	14	462
Education, Logic, Language, &c	734	57	791
Poetry and Dramatic Literature	2,224	58	2,282
Works of Imagination.....	5,116	80	5,196
Classical Literature	317	3	320
Heraldry, Encyclopædias, & Works of Reference	1,599	55	1,654
	<u>49,277</u>	<u>1,809</u>	<u>51,086</u>

LENDING LIBRARIES.

The history of these Libraries during the past year has been much the same as former years, and requires no special comment. They are quite as popular as ever, and if the number of borrowers has not materially increased, it is simply because, as has been stated in previous reports, more cannot be satisfactorily attended to. In fact, the usefulness of the Libraries is being somewhat impaired by overcrowding. An average of 4,500 readers at each Library, the vast majority not mere nominal readers, entails an amount of work independent of debiting and crediting which cannot be indicated by statistics. With the present number of readers and the staff and the system strained to the utmost, disappointment in obtaining particular books and delay through waiting cannot possibly be prevented. Another source of injury to the well-being and reputation of the Libraries is the mutilation of the books through the carelessness, and in some cases the apparent wilfulness, of readers. To discover the guilty parties in such cases is not always an easy matter, even with the utmost vigilance on the part of the officers.

Although the issue of books is entirely gratuitous, yet in justice to the public, to whom the Institution belongs, a fine is inflicted when a book is kept beyond the specified period, and a charge is made to cover the expense of Catalogues and the readers' tickets. The Receipts from this source have been during the last year as follows:—

For Fines (North Library)	£94	18	2
„ „ (South Library)	108	5	0
„ Catalogues	55	12	0
„ Tickets	80	17	4
	<hr/>		
	£339	12	6
	<hr/>		

STATISTICS.

	THIS YEAR.			LAST YEAR.		
	North.	South.	TOTAL	North.	South.	TOTAL
No. of Volumes lent.....	210,488	240,359	450,847	214,519	222,420	438,939
No. of New Tickets granted	2,347	2,401	4,748	2,185	2,307	4,492
No. of Tickets cancelled	1,867	2,077	3,944	2,054	1,981	4,035
No. of Tickets renewed	1,990	2,282	4,272	1,863	2,254	4,117
Revised No. of Readers on the Books.....	4,339	4,697	9,036	4,056	4,561	8,617
No. of Books lost or injured, and paid for...	44	46	90	17	33	50
No. of Books wholly lost.....	52	3	55	...	...	...
No. of Volumes worn out and replaced	522	501	1,023	968	613	1,581
No. of Volumes worn out—withdrawn	389	528	917	169	430	599
No. of Volumes added	610	598	1,208	487	514	1,001
Total Volumes in the Libraries.....	19,748	20,022	39,970	19,527	19,952	39,479

The Volumes in the Libraries have been Classified, as under:—

	BOOKS LENT.			BOOKS ADDED.		
	North.	South.	TOTAL	North.	South.	TOTAL
Theology, Morals, and Metaphysics.....	4,945	5,036	9,981	28	30	58
Natural Philosophy and Mathematics	2,187	2,429	4,616	13	10	23
Natural History	1,092	1,774	2,866	7	6	13
Science and the Arts (including 4,121 vols. of Music).....	5,778	5,832	12,610	38	38	76
History and Biography	11,071	12,143	23,214	77	73	150
Topography and Antiquities	939	1,218	2,157	6	6	12
Geography, Voyages, and Travels	5,226	5,967	11,193	31	28	59
Miscellaneous Literature.....	18,276	21,483	39,759	102	101	203
Jurisprudence, Law, and Politics.....	259	391	650	2	1	3
Social Science, Political Economy	598	736	1,334	3	3	6
Education and Language	2,404	2,397	4,801	20	21	41
Poetry and the Drama.....	2,029	2,473	4,502	10	10	20
Novels	155,426	178,207	333,633	269	266	533
Latin and Greek Classes	130	210	340	4	5	9
Embossed Books for the Blind	128	63	191	...	...	...
TOTAL.....	210,488	240,359	450,847	610	598	1,208

MUSEUM.

STATISTICS.

	1868-9	1869-70	Increase in 1869-70	Decrease in 1869-70.
Day Visitors	462,892	446,473	...	16,419
Evening Visitors	44,000	54,473	10,473	...
TOTAL	<u>506,892</u>	<u>500,946</u>	...	<u>5,946</u>
Average of Day Visitors.....	2,163	2,057	...	106
Average of Evening Visitors	1,760	2,095	335	...
Greatest Attendance in one Evening	2,929	3,480	...	...
Smallest " "	813	906	...	...

Compared with the average of the six preceding years, the number of Visitors is above 30,000 in excess, as shewn by the following figures:—

Total number of Visitors in 1869-70	500,946
Average of six preceding years	<u>468,850</u>
Excess of 1869-70	<u>32,096</u>

For the third time the annual total exceeds half-a-million. In 1866-7 the total was 505,993; and in 1868-9 it was 506,892, the highest number yet attained.

The total number of Visitors from the opening of the Museum in William Brown Street, Oct. 18, 1861, to Aug. 31, 1870, amounts to.....	4,062,975
The total Visitors to the Old Museum in Duke Street, from its opening in 1853 to its close in 1860, was.....	<u>984,769</u>
Making a Grand Total of Visitors to the Museum, since its foundation, of	<u><u>5,047,744</u></u>

DONATIONS.

Thirteen Articles of Peruvian Pottery from Truxillo; presented by Capt. Angel, barque "John Peile."

The Skull of a *Delphinus* taken off Madagascar; presented by Mr. W. H. Bates.

A Gannet (*Sula bassana*); presented by Mr. Alderman Bennett.

A collection of Fish from the River Irawady, Burmah, and other Specimens chiefly collected at Sea; presented by the late Capt. Berry, ship "Richard Cobden," Associate of the Literary and Philosophical Society of Liverpool.

A series of Fossil Plants, chiefly from the Old Red Sandstone of Kiltoran, county Kilkenny; presented by the Council of the British Association, per Mr. W. Hellier Baily.

A series of Irish Carboniferous and other Fossils; presented by Mr. W. Hellier Baily, Geological Survey of Ireland.

Forty-two specimens of fourteen species of British Dragon-Flies, named and presented by Mr. J. F. Brockholes.

A Native Brazilian Hammock, manufactured by Indians of the Amazons; presented by Mr. Henry Brocklehurst.

A female Deer from Greece; presented by Capt. Alexander Brown, Associate of the Literary and Philosophical Society of Liverpool.

The Skull of an Elephant, two Saws of Saw Fish, and a Manis, all from Cameroons; presented by Capt. Buchanan, s.s. "Palm," per Mr. R. J. Keen.

Two Quivers containing Arrows tipped with Wourali Poison; and a Basket of fine Vegetable Fibre used to protect the same; from Esse-qui-bo River; presented by Mr. Samuel Bucknall.

A Specimen of Cinnabar from California; presented by Mr. Butter.

A Sample of Granular Chromate of Iron; presented by Mr. E. M. Bye, Delaware, U. S. A.

A Horned Frog (*Phrynosoma*) from Galveston; presented by Mr. W. F. Campbell, barque "Etowah."

A Common Heron; presented by the Rev. W. Carter.

A large upper Molar Tooth of Indian Elephant (13 inches long and 8 deep, and unworn); presented by Captain Donald Chisholm, per Mr. Alfred Higginson.

Two bottles of Snakes, from Brazil; presented by Mr. Augustus Christiansen.

Forty-six Skins of Birds; 2 young Megapodes or Mound-making Birds; the Skull of a Wild Pig (*Sus taivanus*); two specimens of the largest known Nudibranch (*Doris exanthemata?* of Kelaart); 6 Olive Shells; 5 rare Foraminiferæ (4 *Orbitolites* and 1 *Cycloclypeus*), and other specimens; collected in the China Seas, and presented by Dr. Collingwood.

Also, a fine specimen of a Seven-rayed Starfish (*Luidia fragilissinia*), from Cunbrae, N.B.; and 2 Scorpions, from the West Indies; presented by Dr. Collingwood.

Two large Oil Paintings, by Samuel Williamson (Subjects: A Sea Piece, and Mountain Scenery); presented by Mr. George Comer.

A living Green Lizard, from Southport; 2 young specimens of the Common Gull, from Loch Laggan, Kingussie, N.B.; and a specimen of the Great Lake Trout (*Sulmo ferox*), from Loch Laggan; collected and presented by Mr. Nicholas Cooke.

A Coral Snake (*Elaps corallinus*?), from Rio Janeiro; presented by Mr. Crawshaw.

A large Walking Stick Insect (*Duira* —), from West Africa; the Skull of a Hippopotamus; a small Sole and a dozen Echinoderms (*Rotula Rumphii*), from the West Coast of Africa; collected and presented by Captain Davis, R.M.S.S. "Mandingo," per Mr. R. J. Keen.

Two Fossil Fish, from Mount Lebanon; presented by the Earl of Derby.

A series of Fossil Remains, consisting principally of large Reptilian (?) Vertebrae, from Ashley River, Charleston, South Carolina; presented by Messrs. William Dixon and Co., Seacombe.

A Flying Squid (*Onychoteuthis*), from Tahiti; presented by Captain Drummond, ship "Glengaber," per Mr. R. J. Keen.

An impression in wax of the Seal of the City of Coventry, 1610; presented by Mr. W. Dunkley.

A Nylghau Antelope, from India; and two Lion Cubs, two days old; presented by Mr. Edmonds.

A copy, by the electro-type process, of the Milton Shield, original in the South Kensington Museum, subject taken from Paradise Lost, artist Morel Ladeuil; presented by the manufacturers, Messrs. Elkington and Co.

Two Mummy Hands (one with a Nilometer, and the other with a Scarabæus, attached to the fingers), from a grave near the third cataract in Nubia; presented by Mr. Richard O. Eyton, Alexandria.

A specimen of Dendritic Manganese on Slate, from Llanberis Quarry; presented by Mr. Gardiner.

A Thresher, or Fox Shark (*Alopæcius vulpes*), taken in a herring net off Folkstone; presented by Messrs. Gilson and Quelch, London.

A Shell (*Cytherea tenuispina*); presented by Captain Gray.

Two live Chameleons; presented by Mrs. Greenland.

Two Snakes and six Newts, from _____; presented by Mr. Hugh F. Hall.

Three bottles of Reptiles and Fish, from Java and Molucca Islands; presented by Captain Hanson, per Mr. R. J. Keen.

Seven specimens of *Janthina*, found on the beach at Dunmore, Waterford Harbour, (*J. Brittanica* and *J. fragilis*); presented by Mr. James Haughton, Duncannon, per Mr. S. R. Graves, M.P.

Twelve specimens of *Hippocampus* ('*Cavalho marinhó*'), from Maceio, Brazil; presented by Mr. W. H. Haynes.

A very extensive and important series of Fossils from the Coal-measures, chiefly from the Railway excavation at Ravenhead, near St. Helens, collected by the Rev. Henry H. Higgins, 1870; and a piece of Roman Mosaic Pavement, imported about the beginning of the present century from Smyrna, and said to have been brought from the ruins of a large building at Ephesus; presented by the Rev. H. H. Higgins.

Four Shells, from Morocco, (*Helix Housmani*, Baird;) collected and presented by the discoverer, Rev. H. Housman, per Mr. Pritchard.

Two rare Sharks, (*Rhinodon typicus* and *Oxyrhina Gomphodon*; the only other preserved specimen of the *Rhinodon typicus*, is in the Paris Museum); and a small Flying Opossum, (*Acrobates pygmaeus*), from Australia; collected and presented by Capt. Husband, ship "Lightning," per Mr. R. J. Keen.

Two Models of patent compound Marine Steam Engines, with surface condenser and feedwater heater; manufactured and presented by Messrs. James Jack & Co., Victoria Engine Works.

A Raft or Float of Sheep's Skin used by Natives in crossing the Indus at Scinde; and a Pupa Case made with thorns, from Bombay; presented by Mr. William Joynson.

The Sword of a Sword Fish (*Xiphias gladius*); presented by Mr. R. J. Keen.

The Sword of a Sword Fish, (*Xiphias gladius*); captured off George's Shoal, 250 miles east of Sandy Hook; presented by Mr. Kennedy, Chief Officer of the R. M. S. "Scotia."

A large living Marine Worm, (*Eunice*), found in one of the Docks; presented by Mr. Joseph Leyland.

A glazed Cabinet and Trays; presented by the Directors of the Liverpool Institute.

Three small free British Corals, (*Turbinolia miletiana*), from Cornwall; presented by Mr. R. MacAndrew, per Rev. H. H. Higgins.

Three large living Centipedes, found in Liverpool in a cargo of Rice from West Africa; presented by Mr. H. Mapleson.

A Young Crocodile, from Old Calabar; presented by Mr. J. Maguire.

A small carved Chinese Figure, in white jade, (a man reclining); presented by Mr. Joseph Marsden.

The Sword of a Sword Fish, and piece of ship's timber penetrated by the same, from the ship "Miletus," struck by the fish on the voyage from Liverpool to Bombay in 1865; presented by Mr. R. C. Mellor.

A specimen of Cone-in-Cone, an argillaceous Ironstone, used in the making of Roman Cement, from St. Helens; presented by Mr. John Mercer.

A rare Sea Worm, (*Amphinome*), from the Indian Ocean; presented by Capt. Mesnard, ship "Thomas Seddon."

A Stone Celt and a Stone Spear Head, found near the Water Gap by the source of the Delaware River, New Jersey, U.S.A.; Five Fossil Teeth, &c. from the Phosphate beds, Ashley River, near Charleston, South Carolina; a dried Physalia; Eight Minerals from the United States; Three Vertebrae and Three Shark's Teeth, (fossil), from Ashley River; Nine Fish and Two Clams, from the New York Fish Market; a living specimen of Frog Fish, (*Cheironectes pictus*), from the Gulf-weed of the North Atlantic; Six living Terrapins or Water-Tortoises, from New York; a living Cirrhiped, from the Gulf-weed; ten living Molluscs (*Nassa obsoleta*) from Long Island Sound; a large expanded specimen of Hyalæa; specimens of Shells (*Pecten Magellanicus*, *Nassa*, &c.) Echinoderms (*Scutella*); a Sea Mouse (*Aphrodita*), and other specimens dredged in thirty fathoms, off Nantucket Shoals; specimens of *Sapphirina*, (a minute iridescent crustacean), and other Marine Specimens collected in the North Atlantic; also, numerous specimens of Chain Salpæ in fine condition, both dry and in spirit, from the North Atlantic; collected and presented by Capt. J. H. Mortimer, ship "Isaac Webb," Associate of the Literary and Philosophical Society of Liverpool.

A specimen of Porphyritic Granite from St. Just, Cornwall; presented by Mr. G. H. Morton, F.G.S.

Three soft-bodied Mollusca (two *Philine* allied to *Aperta* and one other), dredged in 7½ fathoms in the Gulf of Suez; and presented by Capt. Murray, P. & O. Steam-ship —.

Nest of a Leaf Cutting Bee (*Megachile*); presented by Mr. R. S. Norris.

Two Beetles (*Sternocera sternicornis*?) from Ceylon; presented by Mr. S. Sandbach Parker.

Five living Freshwater Fish (*Pacilia unimaculata*), from San Clemente, Rio de Janeiro; a Snake Lizard (*Pygopus*) and Six other

Reptiles; a rare Myriapod; two Isopod Crustaceans; and two Viviparous Fish from Brazil; collected and presented by Capt. John A. Perry, s.s. "Pascal," Associate of the Literary and Philosophical Society of Liverpool.

Four Native Necklaces of Bones, from Andaman Islands; presented by Mr. William Pickering.

The right ramus of lower jaw of a Mastodon (*M. Arvernensis*); presented by Mr. H. C. Quinby.

An inscribed Terra Cotta Wall Tile of the Fifteenth Century, found in the garden of Mr. R. H. Foster, Mersey Terrace, Bebington, by his son, Richard Radclyffe; and presented by him to the Mayer Collection.

Five hundred Ova of the Salmon and Sea Trout; presented by Mr. Ramsbottom.

A Chief's Staff or Spear, from New Zealand, and Two Feejee Clubs; presented by Mr. William Ridings.

Fifty specimens of *Rhynchonella plana* from the Trenton Limestone, at Mile End, Montreal; collected and presented by Mr. Thomas Rimmer.

A Bat (*Vespertilio noctula*) shot at Bunbury, near Delamere; presented by Mr. Edward Roberts.

A living Electric Fish (*Malapterurus*) from West Africa; presented by Capt. Robinson, ship "Elgiva."

A Bronze Medal of George the Second, 1759, (commemorating the victories of Wolfe, Amherst, and others); lately found in their garden at Linacre, and presented by the Misses St. Aubyn.

A Porcupine Fish (*Diodon*); presented by Mrs. Seddon.

One hundred specimens of twenty-five species and varieties of Shells, from the Maldive Islands; two Valves of a Pearl Oyster (*Meleagrina margaritifera*) from Costa Rica; a King Crab (*Limulus*) from Rangoon: the Jaws of a large Shark from Burmah, and a small box of Insects collected at the Chandpore Tea Estate, near Chittagong; presented by Captain John Slack.

A large and important collection of Shells, rich in rare and valuable specimens, illustrating generic forms, and filling three large cabinets; presented by Mr. Samuel Smith, per Rev. H. H. Higgins.

Nineteen original Casts of Statuary, from Rome; (Subjects: Finding of Moses, Hector and Andromache, Liverpool, Venus and Cupid, Oberon and Titania, Lady of the Lake, Highland Mary, Jeannie Deans, The Hunter, Psyche, Ophelia, Boy and Kid, Lavinia, Cupid, Angel's

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Fish and Nine Crustaceans from Anno Bon Island; and the Skull and Bones of an Adult Lamantin; presented by Mr. R. B. N. Walker, of Gaboon.

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A fine young specimen of Lamantin, from West Africa; Fourteen Fish and Nine Crustaceans from Anno Bon Island; and the Skull and Bones of an Adult Lamantin; presented by Mr. R. B. N. Walker, of Gaboon.

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Hunter, Psyche, Ophelia, Boy and Kid, Lavinia, Cupid, Angel's

Whisper, Spring, Flora Macdonald, Sabrina, and Shepherdess and Kid;) by the late B. E. Spence, of Liverpool; presented by his Widow.

A large Slab of *Cheirotherium* and other Footprints, from Storeton; presented by Mr. A. T. Squarey, Bebington.

Two Cingalese Books, written in Pali or Sanscrit, on leaves of the Palmyra Palm, or Taliput Tree, and obtained from Buddhist Priests at a Temple near Galle; presented by Mr. William T. Stevens.

A fine male specimen of the Aard Vark or South African Ant-Eater (*Orycteropus Capensis*); presented by Mr. J. C. Stewart.

A Red Grouse, a Heron, and a Water Rail; presented by Mr. G. W. W. Stubbs.

Model of first Gold Nugget received from Australia, 1851; and Model of Gold Nugget, found April, 1869, at Kildonan, Sutherland; presented by Professor Tennant, London.

Two framed Slabs of small *Cheirotherium* Footprints from Storeton; presented by Mr. George Thomas.

A fine piece of Coral (*Millepora plicata*) from Port-au-Prince, Hayti; collected and presented by Mr. William Thompson.

Two Crustaceans (*Callianassa Turnerana*) from West Africa; presented by Dr. W. C. Thompson.

A collection of Ethnological Specimens, &c., from Syria, Nubia, and North Africa, collected by the late Miss Alexina P. F. Tinne; presented by Mr. J. A. Tinne.

Three Maori Mats, (two of them made by hand from New Zealand Flax, and one made of strips of Skin and Hair;) presented by Mr. Theodore F. S. Tinne.

Living Specimens of Young Oysters of 1870, 1869, and 1868; presented by Col. Tomline, and artificially bred by him on his Orwell Park Estate, near Ipswich, and at Harwich, (per Mr. G. W. Baker, C E.)

A large Coral (*Madrepora spicifera*) from Port-au-Prince, Hayti; and a Shell (*Gastrochæna aperta*) in situ, from the Mediterranean; presented by Mr. J. S. Tyerman.

A large Cuttle Fish (*Octopus*); and a dozen bottles of small Marine specimens; collected and presented by Capt. Walker, ship "St. Magnus," Associate of the Literary and Philosophical Society of Liverpool.

A fine young specimen of Lamantin, from West Africa; Fourteen Fish and Nine Crustaceans from Anno Bon Island; and the Skull and Bones of an Adult Lamantin; presented by Mr. R. B. N. Walker, of Gaboon.

Three small Echini, from Kealing Islands; presented by Captain Wardrop.

A collection, consisting chiefly of Fish, Insects, &c., from Japan; Sea Snakes and Marine specimens from the China Seas; Gorgonias, Star Fishes, and other specimens dredged from the sea bottom, together with notes on the same, and numbering ninety-four entries; also, a fine specimen of *Chain Salpæ*; two *Amphisbænas*; specimens of Fish, Crustacea, &c., &c., collected at Pernambuco and on the voyage; presented by Captain Cawne Warren, barque "Brilliant," Associate of the Literary and Philosophical Society of Liverpool.

Two Sponges (*Spongia muricata*, Pallas, and *Spongia*); and a Coral (*Dichocænia uva*, Esper) from Cuba; presented by Mr. W. Weeks.

A dozen fragments of ornamented flooring Tiles, of Vases, and of Pottery, found during excavations at St. John's Churchyard, Chester; presented by Mr. Aaron Whitby.

A large living Spider (of the family *Mygalidæ*) found in a cargo of logwood; presented by Mr. Whitmore.

A sample of Turbæ or Brown Coal, from Bahia; presented (with analysis) by Mr. W. Whitthread.

Minor donations have been received from Mr. Daniel Adams, Salop, Mr. W. H. Haynes, Dr. Long, Mr. George MacAulay, and Mr. J. S. Tyerman.

BEQUEST.

The skull of a Babirusa or Horned Hog (*Babirusa alfurus*) with glass shade and stand; the Skull of a Crocodile, with long and slender jaws, (*Rhynchosuchus*, of Huxley); and the Saw of a Sawfish (*Pristis antiquorum*); bequeathed by the late Mr. Arthur Berry, of 18, South Hunter Street, Liverpool, per Mr. J. Garner, his executor.

PURCHASES.

A Stuffed Tiger; a Lioness; and thirty-nine other Mammalia.

Three Birds of Paradise and seventeen other Birds.

Fifty-five Reptiles.

Thirty-two specimens of Fish.

Twenty-eight specimens of Shells, &c.

One hundred and fifty Insects, Crustacea, &c.

Fourteen Starfish and Sea Urchins.

Thirty Corals, Sea Fans, &c.

Twenty-six Sponges.

Eleven Skeletons and Skulls.

Sixteen Fossils.

One hundred and eighty-three Medals, Orders, and other Memorials of the Great French Revolution.

Ten specimens of Græco-Phœnician Pottery and Glass found at Cyprus.

LECTURES.

During the season of 1869-70, the following Free Lectures were delivered in the Theatre of the Museum :—

Ten Lectures on Art, by Mr. W. J. Bishop, Head Master of the Liverpool School of Art, North District.

Seven Lectures on the Natural History of Animals, of the Class Mammalia; their structure, habits, and distribution; by Mr. Thomas J. Moore, Curator of the Museum.

Two Lectures on Mineralogy, by Mr. F. P. Marrat, M.L.G.S.

And Ten Lectures on Home Chemistry, by Mr. Norman Tate, Analytical Chemist.

The Lectures have proved very attractive as evidenced by the excellent attendance on the whole and the crowded state of the Lecture Hall on several occasions.

THE CORPORATION SCHOOLS.

These Schools, which have been carried on with considerable success for about forty-five years, continue in a state of efficiency and usefulness, as evidenced by their crowded condition and the anxiety of parents to get their children admitted.

During the past year, at the request of this Committee, both Schools have been inspected and favourably reported on by Mr. Fearon, Government School Inspector for the district.

The appointment of a School Board, under the new Education Act, would seem to render undesirable any separate action by the Corporation. The public interest will be best served by uniting the whole system of elementary education, where the cost is defrayed out of public funds, in one central authority for the borough. Should this course be determined on, this Committee will have the satisfaction of feeling that two large elementary Schools will be handed over to the new Board in two of the most central localities, in a complete and organised condition.

J. A. PICTON,

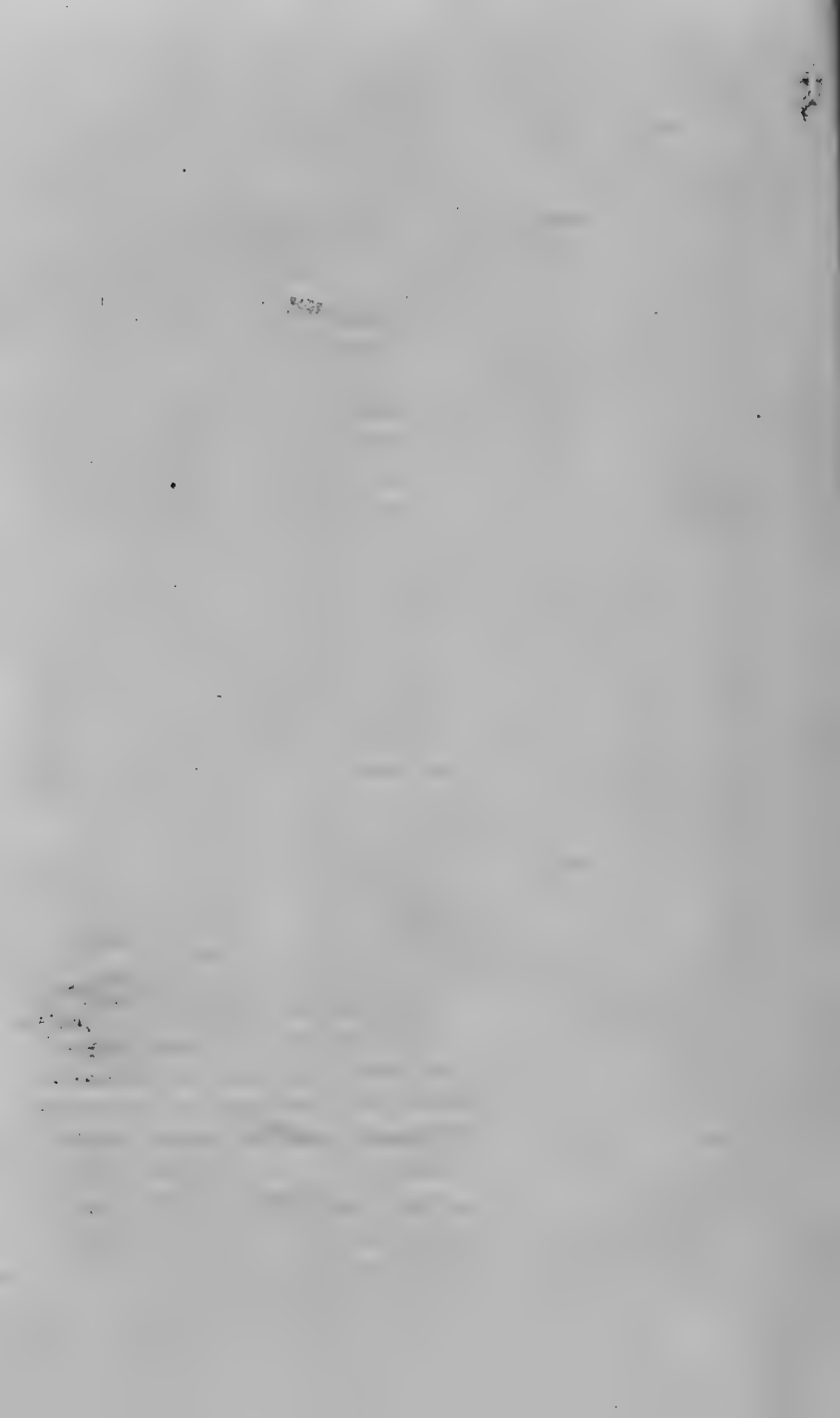
CHAIRMAN.

PRINTED

15 JUL. 1898







NINETEENTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM AND SCHOOLS,
OF THE
BOROUGH OF LIVERPOOL,

FOR THE YEAR ENDING AUGUST 31st, 1871



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OFFICERS AND COMMITTEE

FOR THE YEARS 1870—1871.

Committee.

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EDWARD SAMUELSON, DEPUTY-CHAIRMAN.

JOSEPH GIBBONS LIVINGSTON, MAYOR.

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P. H. RATHBONE,

THOMAS AVISON, F.S.A.,

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B. HALL,

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J. HOUGHTON,

LIEUT.-COL. JAMES C. BROWN,

REV. H. H. HIGGINS,

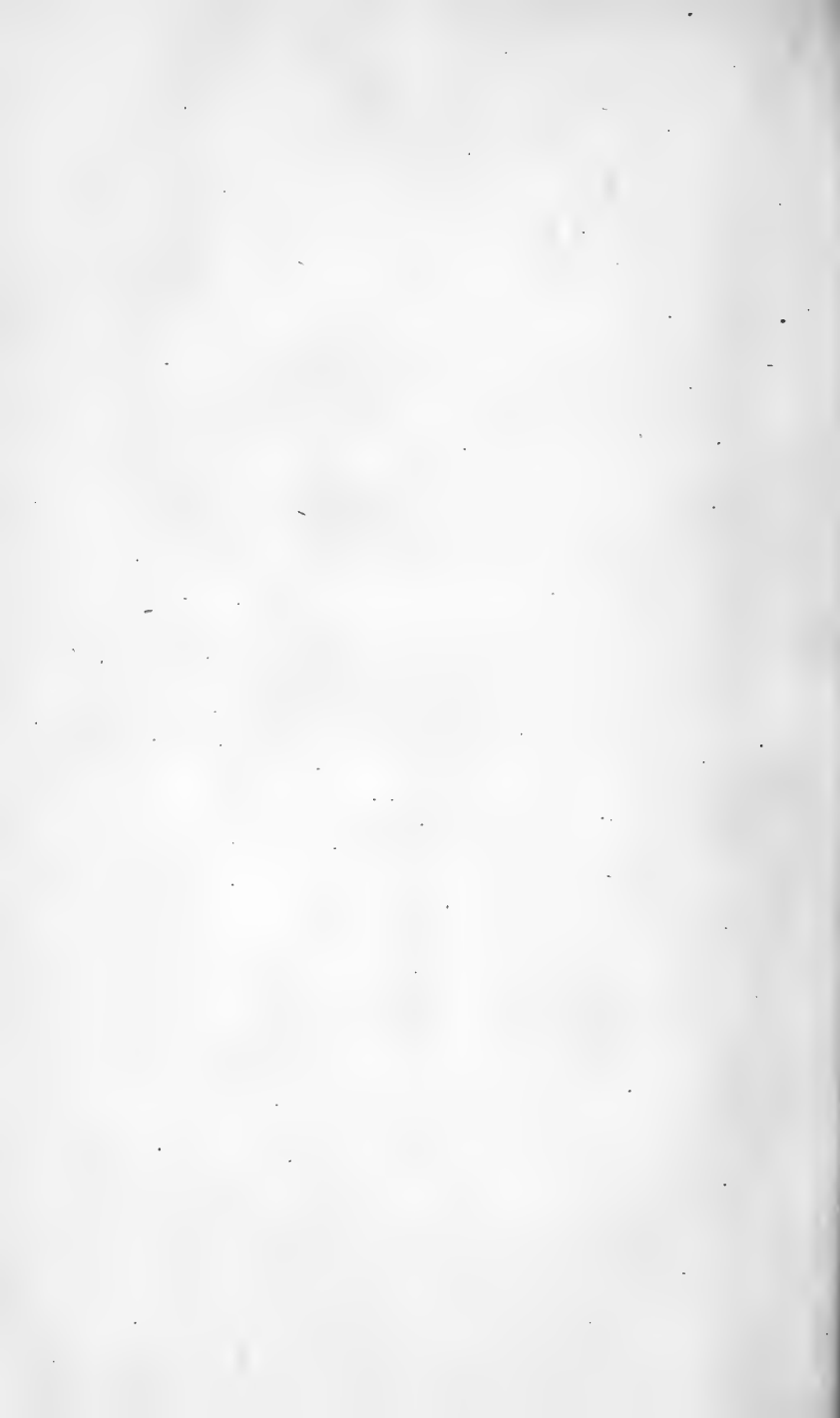
JOSEPH MAYER, F.S.A.

Chief Librarian.
GEORGE HUDSON.

Sub-Librarian.
THOMAS FORMBY.

Superintendent of the Lending Libraries.
PETER COWELL.

Curator of the Museum.
THOMAS J. MOORE.



REPORT.

—:0:—

DURING the past year the Institution has pursued its course of usefulness to the utmost extent which the resources and space at the disposal of the Committee have enabled them to go.

A new feature has been introduced since the date of the last report, in the Exhibition of Pictures during the Autumn. The cessation of the Annual Exhibitions which formerly were held in the town had for a long time been a source of regret to all lovers of Art.

This Institution, in the Act of Parliament under which it has been established, is denominated "The Library, Museum, and Gallery of Arts"; and although the last object has hitherto, owing to deficient means, not been carried out to any extent in relation to modern pictorial art, yet it has never been lost sight of.

In considering this subject, it appeared to the Committee that the time had arrived when an effort ought to be made to wipe off the reproach which had attached to the town for its neglect of a public recognition and encouragement to the living and working artists of the day. It was also thought that this could be more easily carried out under Corporate sanction than by the efforts of private individuals. Some risk had necessarily to be run; but the Committee were of opinion that a portion of the funds at their disposal could not be better applied than in providing a guarantee for any possible loss which might be sustained in making the experiment.

Happily, this has not been necessary. The success of the Exhibition has been beyond their most sanguine expectations. The expenses, which were necessarily heavy, have been defrayed, leaving in hand a handsome surplus to be devoted to the purposes of Art.

Four rooms were appropriated to the Exhibition, two of them abstracted for a time from the Museum. It is satisfactory to state that, in point of light and arrangement, the rooms were everything which could be desired.

It would be too much to expect that every exhibiting artist should be quite satisfied with the position of his Pictures; but on the whole, the number of complaints were exceedingly few—the amount of sales having been very satisfactory.

The following particulars may be interesting. The Exhibition opened on Saturday, September 2nd, and closed on Saturday, November 18th. During this time it was attended by 22,725 persons, besides holders of season tickets, numbering 313. The number of Pictures exhibited was 887, of which were sold 235, at prices amounting in the whole to £6,395 2s. 6d.

The Committee have purchased, on behalf of the Institution, for the Permanent Gallery, Pictures to the value of £500, and are prepared to devote a larger sum for the same purpose next year.

It is gratifying to record the valuable assistance which has been rendered by many of the Artists, and the general satisfaction expressed at the conduct of the Committee, whose only object has been to render the Exhibition subservient to the interests of Art.

REFERENCE LIBRARY.

The number of volumes issued during the year has been 507,335, against 620,124 in the previous year. This diminution is partly accounted for by the closing of the Library for several weeks, partly for cleaning and painting, and partly for the Meeting of the British Association, in September, 1870.

The following is a classified list of the Books issued:—

CLASSIFICATION.	Volumes.	Daily Average about
Theology, Morals, and Metaphysics.....	12,834	49
Natural Philosophy, Astronomy, Chemistry, &c.....	12,170	46
Natural History, Botany, Mineralogy, &c.....	8,611	32
Science and the Arts, Architecture, Painting, Music, &c.	23,126	106
History and Biography	23,410	88
Topography and Antiquities	8,762	33
Geography, Voyages, and Travels	20,668	78
Miscellaneous Literature	202,984	763
Jurisprudence, Law, and Politics.....	3,591	14
Commerce, Political Economy, and Social Statistics ...	2,510	10
Education, Logic, Language, &c.....	8,444	32
Poetry and Dramatic Literature	14,472	55
Works of Imagination	151,643	570
Classical Literature	2,519	10
Heraldry, Encyclopædias, and Works of Reference.....	6,591	21
TOTAL.....	507,335	1,907

During the year, 2,038 volumes of books have been added to the Library, viz., 1,740 by purchase, 125 from the Commissioners of Patents, and 173 by donation, under the following heads :—

CLASSIFICATION.	1870.	Additions.	1871.
Theology, Morals, and Metaphysics	4,155	149	4,304
Natural Philosophy, Astronomy, &c.....	1,267	21	1,288
Natural History, Botany, Mineralogy, &c.	2,817	247	3,064
Science and the Arts, Architecture, &c.....	5,542	272	5,814
History and Biography	7,334	148	7,482
Topography and Antiquities	2,299	79	2,378
Geography, Voyages, and Travels	3,183	91	3,274
Miscellaneous Literature.....	9,383	560	9,943
Jurisprudence, Law, and Politics	4,401	111	4,512
Commerce and Social Statistics	462	27	489
Education, Logic, Language, &c.	791	61	852
Poetry and Dramatic Literature	2,282	87	2,369
Works of Imagination.....	5,196	103	5,299
Classical Literature	320	10	330
Heraldry, Encyclopædias, and Works of Reference...	1,654	72	1,726
	<u>51,086</u>	<u>2,038</u>	<u>53,124</u>

The preparation of the new Catalogue is proceeding, and it is hoped will be completed, and issued during the current year. It has been a work of great labour, and when completed, from the mode in which it is classified, it will be found a most valuable Book of Reference for general literary objects, as well as for the purposes of the Library.

LENDING LIBRARIES.

There is nothing special to report in this department ; its usefulness continues fully maintained. The class of reading most in demand is necessarily of a light character, but it is gratifying to see the large amount of useful literature circulated. One class may be particularly alluded to—that of Music—the demand for which very pleasingly indicates the increasing extent to which this delightful art is being cultivated.

From the statistics given below, it will be seen that, although 1,425 volumes have been added during the year, the actual number of Books in the Libraries is increased to a very trifling extent. This requires explanation. In some departments—that of fiction for instance, the wear and tear is very great, and the number of volumes worn out and withdrawn, is consequently large. Many of these, of a comparatively ephemeral character, it is not found desirable to

replace, other works being substituted for them. In this way, a great variety is obtained, although the numerical increase is not large.

The Receipts from Fines, Tickets, and Catalogues sold during the year, has been £329 Os. 11d.

The following Tables give the Statistics :—

	North.	South.	TOTAL.
No of Volumes lent	192,828	232,493	425,321
No. of New Tickets granted.....	2,258	2,265	4,523
No. of Tickets cancelled	2,358	2,306	4,664
No. of Tickets renewed.....	1,981	2,378	4,359
Revised No. of Readers on Books	4,239	4,656	8,895
No. of Books lost or injured, and paid for	35	45	80
No. of Books lost	2	3	5
No. of Volumes worn out and replaced.....	706	1,031	1,737
No. of Volumes worn out and withdrawn	530	901	1,431
No. of Volumes added	716	709	1,425
Total No. of Volumes in Libraries	19,791	19,830	39,621

The Books issued and those added to the Libraries have been classified as under :—

	BOOKS LENT.			BOOKS ADDED.		
	North.	South.	Total.	North.	South.	Total.
Theology, Morals, and Metaphysics	3,476	4,733	8,209	30	28	58
Natural Philosophy and Mathematics	2,156	2,300	4,456	11	10	21
Natural History	1,325	1,710	3,035	13	11	24
Science and the Arts	4,795	5,901	9,796	37	37	74
History and Biography	9,198	10,964	20,162	50	51	101
Topography and Antiquities	762	1,178	1,940	8	7	15
Geography, Voyages, and Travels.....	4,303	5,706	10,009	27	25	52
Miscellaneous Literature	15,082	20,773	35,855	110	112	222
Jurisprudence, Law, and Politics	235	263	498	1	4	5
Social Science and Political Economy	521	675	1,196	...	...	...
Education and Language	2,004	2,102	4,106	14	13	27
Poetry and the Drama	1,529	1,833	3,432	17	11	28
Prose Fiction.....	148,297	174,875	323,172	378	378	756
Latin and Greek Classics	95	301	396	1	3	4
Embossed Books for the Blind	70	76	146	19	19	38
Total.....	193,918	232,490	426,408	716	709	1,425

4

MUSEUM.

STATISTICS.

	1869-70. (52 weeks.)	1870-71. (49 weeks.)	Decrease in 1870-71.
Day Visitors.....	446,473	362,657	83,816
Evening Visitors	{(26 nights.) 54,473}	{(25 nights.) 42,730}	11,743
Total	500,946	405,387	95,559
Average of Day Visitors	2,057	1,804	253
Average of Evening Visitors.....	2,095	1,709	386
Greatest Attendance in one Evening...	3,480	2,576	
Smallest " " " "	906	486	
Average of seven preceding years			473,435
Total of 1870-71, as above			405,387
Decrease			68,048

It will be seen from the above figures, that there has been a considerable falling off in the number of visitors during the year, for which some explanation may be necessary.

The attraction of the Museum, not only brings visitors from the town itself, but the numbers have been largely swelled by excursion parties from the manufacturing districts. These fluctuate from time to time, according to the season, the weather, the wide extent of choice offered by the ever-increasing railway system. A cold wet summer deters multitudes, whom a fine warm season would bring over.

There has been an increased attendance of Students, both in the Art Department and in the Natural History Department.

DONATIONS.

The carapace of a Giant Armadillo or Tatou (*Prionodon gigas*), from Bahia; presented by Mr. Edward Astley.

Thirty specimens of six species of Shells (*Hyalæa* and *Patella*), from Miles Bay, South Africa; presented by Colonel Aston.

Marine specimens (*Ascidia*, *Modiola*, &c.), dredged off Westport, Ireland; and presented by Mr. Samuel Archer, 98th Regiment.

Three jars of Fish, Crustacea and Shells, from Bahia; collected and presented by Mr. George Bell, Bahia and San Francisco Railway Company, Bahia.

A Lizard (*Zootoca vivipara*), from Headford, County Galway; presented by Miss Barton.

A Mat and Weaving Machine (shewing process of manufacture) and Basket of Yarn, from Old Calabar; presented by Captain H. W. Buchanan, s.s. "Palm."

Specimens *in situ* of an Entozoic Worm (*Echinorhynchus Barkeri*) infesting the large intestines of the Pike Whale (*Balænoptera rostrata*); presented by Dr. John Barker, Dublin.

A piece of the Corsica and Spezzia Submarine Electric Telegraph Cable, made by Messrs. Glass and Elliot in 1854, submerged the same year, and dredged up again in 1870; presented by Mr. Edward Bates.

Eight Skins and Skulls of Seals (4 Harp Seals, 2 Hooded Seals, 1 "Square Flipper," and 1 "Harbour Ranger)," from the Newfoundland Seal fisheries; presented by Charles Bowring, Esq.

A living Bird-catching Spider (*Mygale*), brought in a cargo of Logwood, by the ship "Marmion," from the West Indies; presented by Mr. William Bell.

A large Fruit-eating Bat, or "Flying Fox," taken at sea, off the River Hoogly, 2 Snakes, and a Woodpecker; presented by Captain Beattie.

A slab of Carboniferous Limestone Fossils; presented by Mr. Alderman Bennett.

A living Coleopterous Larva, found in Corkwood, on the beach at Galveston; presented by Captain F. W. W. Cole.

Two Teeth of the Sperm Whale, and four Knitting Needles made from bone and teeth of the same; presented by Mr. Ferdinand Castillo.

A Squid from South Africa; presented by Mr. Kenneth Mackenzie Dowie.

A rare Squid, from the West Coast of Africa; presented by Captain Davis, R.M.S.S. "Mandingo."

Two living Bull Frogs, from Halifax, N.S.; presented by Mr. Andrew Downs.

A long-nosed Frog Fish (*Malthe vespertilio*), from Bahia; presented by Captain Donald, ship "Preston."

A group of living Duck Barnacles attached to a bottle, found floating at sea off Beaumaris; presented by Captain Edwards, No. 7 Pilot schooner, "Lancashire Witch."

A small specimen of Tree Coral (*Dendrophyllia*), and specimens of *Millepora*, from Bonito, near Corisco, West Coast of Africa; presented by Captain Fraser, ship "Ellers Lee."

A Chief's Club from Guadaleanor Island and a Club from Solomon Islands; presented by A. W. Franks, Esq., Trustee of the Christy Collection, London.

A Peba (*Dasyppus peba*); presented by Mr. W. R. Fabert.

One Dorsal and two Pectoral Spines of a large Siluroid Fish from Buenos Ayres; presented by Mr. W. Gelling.

A specimen of Anchor-Sponge (*Pheronema Anne*, Leide; *Holtenia Carpenteri*, W. Thomson) from the North Sea; presented by Mrs. J. E. Gray.

A Blind Fish (*Amblyopsis spelaeus*) from the Mammoth Caves, Kentucky; a fine specimen of Peacock Coal from Pennsylvania; and an Indian Stone Club from an ancient Indian Burial Ground on the Banks of the River Rapidan; collected and presented by Mr. S. R. Graves, M.P.

A Lepidopterous Larva from Honduras; presented by Mr. Alfred Higginson.

A Scottish Broad Sword; presented by Mr. Hibbert.

Specimens of Ancient Pottery from Peru; a Human-headed Figure carved in wood, and a fragment of Woven Cloth (both from 350 feet below the surface); Birds' Eggs and Vegetable Matter ammoniated; all from the Guano beds of the Island of Macabi, coast of Peru; presented by Captain Hammill, "S.S. "Magellan."

A Great Spotted Woodpecker (*Picus major*), shot in Knowsley Park; presented by Mrs. Wyndham Hornby.

A living Mud Turtle (*Tyrse Nilotica*), from Sir William Baker's Expedition to the Upper Nile; living specimens of four species of Shells, from Alexandria (viz. :—*Arca lactea*, *Cerithium vulgatum*, *Modiola barbata*, and *Fusus corneus*); collected and presented by Captain Horsfall, S.S. "Canopus."

Two living Snakes, a Tortoise, and seven Frogs, from Boston; presented by Miss Hall, Albany, New York.

Two Arrows, pointed with hard wood, and ornamented with feathers, from the river Amazon; presented by Mr. Stephen Henderson.

Two Locusts, taken at sea, lat. 12°2' N., long. 24°51' W.; a Snake, from Bombay Harbour; a silvery Hair-tail Fish (*Trichiurus*), and five other species of Fish, from Saugor Roads; collected and presented by Captain Husband, ship "Lightning"

A Top-knot, or Dwarf Turbot (*Rhombus norvegicus*), from the Manx fishing boats; presented by Mr. Robert Isaac.

A specimen of Dendritic Oxide of Manganese in Leptinite or Whitestone, from Penmaenmawr; presented by Mr. Owen Jones.

Twenty specimens of Lava from Mount Etna; collected and presented by Mr. J. Yate Johnson, Corresponding Member of the Literary and Philosophical Society of Liverpool.

Three Fish, taken in Cavite Harbour, Bay of Manilla (2 *Platax* and 1 *Ostracion cornutus*); presented by Captain Jewett, ship "W. G. Russell."

Specimens of Fossil Corals from the Carboniferous Limestone; collected and presented by Mr. W. Johnston.

Four Lamellicorn Beetles (*Heterorhina Africana*) from West Africa; a pair of stump-tailed Lizards (*Trachydosaurus*) from Barren Island, King George's Sound; two living specimens of a large Land Shell (*Achatina variegata*), used as an article of food on the west coast of Africa; 4 Spoonworms, 3 Starfishes, 1 Mantis, 1 small Snake, and 1 Lizard, from the coast of Gambia; the Shell and Animal of *Melapium lineatum*, from Port Elizabeth, South Africa, (a rare shell, the animal not previously known to be in any museum;) 2 fine specimens of *Glaucus*, a Pipe Fish, 3 Crustaceans and 1 Mollusc, from the Pacific; 3 Skins of Birds from Australia (*Malurus melanotus*, *Polytelis melanura*, and *Sterna*); presented by Mr. R. J. Keen.

A fine specimen of Globular Anchor-Sponge (*Pheronema Grayi*, Kent), with anchor filaments two feet in length; presented by Mr. William Saville Kent, and dredged by him from a depth of 600 fathoms off Cezimbra, on the coast of Portugal, during the dredging expedition in 1870, of Mr. Marshall Hall's yacht "Norna."

A young Monkey (*Cercopithecus*); presented by Mrs. Langley.

An Iguana from the Island of Havasa, West Indies; the skull of a Spotted Porpoise (*Delphinus*) from the Western Ocean; and a large Flying-Fish from the West Coast of Africa; presented by Captain Lloyd, Commander of H. M. Cutter "Active."

A bottle of Snakes from Brazil; presented by Miss Milligan.

One hundred and fifty specimens of 15 species of Shells from the Gulf of Suez; dredged and presented by Mr. R. McAndrew.

Forty Medals, Coins, and Tokens, in silver and copper, European and South American (Modern); presented by Mr. W. Meikle.

Four New Zealand War Clubs, an Elbow piece of Plate Armour; a cast in wax of the Seal of Charles II; two Encaustic Tiles from the Alcazar, Seville; and other Specimens; presented by Mr. Joseph Mayer, F.S.A.

The skin of a small plated Ray (*Urogymnus*); presented by Miss Mayer.

Two large groups of Fossil Corals (*Lonsdaleia floriformis* and *Lithostrotion Portlockii*) both from the Middle Carboniferous Limestone, Mold, Flintshire; collected and presented by Mr. G. H. Morton, F.G.S.

Specimens of small Zoophytes, Sponges, Corals, &c., dredged off the West Coast of Florida, in the month of June, 1871; a finely preserved specimen of *Medusa* or Jelly-Fish, specimens of *Salpæ*, (*Pteropods*), Pipe-Fish, &c., collected between Liverpool and New York; a living File-Fish, (*Balistes*) and 5 living specimens of the Painted Hand-Fish (*Cheironectes pictus*) from the Sargasso Sea, North Atlantic; collected and presented by Captain Mortimer, Associate of the Literary and Philosophical Society of Liverpool.

Twenty-seven specimens of 23 species of Corals, and the skull, horns, and bones of the Fossil Irish Elk (*Magaceros Hibernicus*); presented by Mr T. Norris, Howick, near Preston.

A fine specimen of *Renilla* from the Coast of Brazil; two living specimens of Cat Fish (*Arius albicans*), from the Rio de la Prata, Buenos Ayres; a Three-toed Sloth, a Dorado Fish, 5 heads of Dorados, and 10 bottles of Fish, Crustacea, &c., from Buenos Ayres; Three specimens of the Enchada or Hoe-fish (*Ephippus gigas*) and 14 living Freshwater Fish, viz.,—5 Camboatà (*Callichthys asper*), 2 Traira (*Macrodon trahira*), and 7 Cara (*Heros*), all from Rio de Janeiro; Two Corallines (*Rhipidigorgia lacuens*), from Rio de Janeiro; a *Pyrosoma* and *Verella*) from the South Atlantic; Eight living Camboatà Fish (*Callichthys asper*), and 4 living Piaba-fish (*Pæcilia unimaculata*) from Rio Janeiro; 6 Fish and 1 Cidarid, &c.; collected and presented by Captain Perry, S.S. "Pascal," Associate of the Literary and Philosophical Society of Liverpool.

The Skull of a Red River-Hog (*Potamocheerus penicillatus*) from West Africa; presented by Mr. Charles Potter.

A small species of Iquana (*Iquana viridis*) from Pernambuco; presented by Mr. Rudd.

A new species of Fruit Pigeon (*Ptilonopus Victor*, Gould), from the Fiji Islands; 2 Bats, 2 Young Opossums, a Frilled Lizard, and 2 other Reptiles; 6 Fish, Crustacea, &c., from Western Australia; presented by Mr. T. B. Robson.

Twelve specimens of Ascidians, from Weymouth; presented by Prof. Rolleston.

A Parchment Roll, with coloured figures and inscriptions, from Abyssinia; presented by Mr. James Stevens.

A *Lepidosiren*, or Mud-fish, and a specimen of the Potto (*Perodicticus Potto*), from West Africa; and a large specimen of Coral (*Madrepora corymbosa*), from Panama; presented by Mr. J. S. Tyerman.

Thirty-four specimens of Carboniferous Limestone Fossils, from the Isle of Mau; and a specimen of supposed Fossil Wood, from the Lias; presented by Mr. George Thomas.

A young Shark, and the Jaws of its dam; presented by Captain Thompson, ship "Oriole."

A specimen of Carpenter's Globular Anchor-Sponge (*Holtenia Carpenteri*), from the deep-sea dredgings of H. M. ship "Porcupine," in the North Atlantic; presented by Prof. W. Thomson.

A bottle of Reptiles, from Yquito, Peru; presented by Mr. Alexander Thornely.

A sample of Vicuna Wool; presented by Mr. F. Taylor.

Three specimens of Wing-Shells (*Avicula*), and a Zoophyte (*Acamarchis plumosa*), from Bootle; presented by Mr. R. Tudor.

A specimen of Oxide of Antimony, from Borneo; of pure Antimony, or Regulus, from Australia; and of native Sulphide of Antimony, from Costerfield, Heathcote, Australia; presented by Mr. J. Thomson.

A collection of Clubs, Spears, and other Implements, collected by the late Mr. P. F. Tinne; a collection of Shells from Spain (chiefly from Barcelona and Mahon); and a small collection of Shells, &c., from Suez; collected by the late Miss Alexine P. F. Tinne; presented by Mr. J. A. Tinne.

A collection of Native Weapons, Ornaments, Domestic Articles, &c., from the Tuarez Country, North Africa; collected and presented by Mr. J. E. Tinne; also 2 large Fossil Sharks' Teeth (*Carcharias megalodon*) from Malta; a pair of Norwegian Socks; a pair of Canadian Indian soft Shoes, ornamented with beads, and 2 Bronze Medals; presented by the same.

The Skin and Skeleton of an adult female Lamantin (*Manatus senegalensis*); 2 jars and 10 small bottles of Birds, Reptiles, Fishes, and Insects, from the rivers Bange and Fernan Vas, West Africa; collected and presented by Mr. R. B. N. Walker, F.R.G.S., Corresponding Member of the Literary and Philosophical Society of Liverpool.

Three Cake Urchins (*Mellita*), from Galveston, U.S.A.; presented by Mr. T. Walthew.

A small collection of Marine Specimens, caught on the voyage to Pernambuco; collected and presented by Captain Cawne Warren, barque "Brilliant," Associate of the Literary and Philosophical Society of Liverpool.

A *Trygon* or Sting Ray; presented by Mr. Maurice Williams.

Specimens of a single-stemmed Coralline (*Primnoas*), from Bombay Harbour; presented by Mr. Weeks.

The Skull of a Crocodile, (the carcase of which weighed 477lbs.,) from Old Calabar River; presented by Captain J. B. Walker.

A Maté Pot, Kettle, and Drinking Tube (*Bombilla*), made and used by the peasants of Chili for preparing and drinking the Maté-tea; a Glaucus, three small Crustaceans, and a Fish; presented by Mrs. Whiteway.

MINOR DONATIONS HAVE BEEN RECEIVED FROM

Dr. Barron, Mr. Thomas Blewitt, Miss Fletcher, Mr. T. Gibson, Mr. J. J. Hibbert, Mrs. Martin, Mr. H. Nicholson, Mr. Abraham Newby, Mr. B. Platt, Mr. J. Randles, Mr. R. Thornton, Prof. Tennant, Captain Taw, Mr. Joseph Tarleton, Captain T. Woods, Mr. T. West, and Mr. Whitehead.

PURCHASES.

A rare Lemur (*Propithecus damanus*) from North East Madagascar; a Young Tiger, and five other Mammals.

Three small Mud Turtles.

A Maigre Fish (*Sciæna aquila*), a rare British species, captured off the Cheshire Coast; and 18 Fishes and Amphibia, chiefly from Misol, Malay, Archipelago.

Two Skeletons of Lizards and 3 Skulls.

Two Stone Crabs (*Lithodes Maia*); 10 Volute and other Shells, and 2 Insects (*Sphingidæ*).

One Hundred and three Crystals, &c.; a small collection of Oolitic and Greensand Fossils; an *Encrinure*, &c.

Ten Corals and Sponges.

Living Specimens of *Hippocampus* or "Sea-Horse"; of "Norway Lobsters" (*Nephrops Norvegicus*); of Salamander; and other specimens for the Aquaria.

A Coat of Chain Armour from Aleppo.

LECTURES.

During the season of 1870-1, the following Free Lectures, being the sixth winter course, were delivered in the Large Lecture Hall of the Museum:—

Ten Lectures on Art. By Mr. W. J. Bishop, Drawing Master of the Liverpool College, and Head Master of the Liverpool North District School of Art.

Six Lectures on Natural History, (Four on the Economic or Useful Products of Mammals, Birds, Reptiles, and Fishes; and Two on Mites and Monsters of the Deep). By Mr. Thomas J. Moore, Curator of the Museum.

Four Lectures on the Geological History of the Earth. By Mr. G. H. Morton, F.G.S., F.R.G.S.I.

Four Lectures on Mineralogy. By Mr. F. P. Marrat, M.L.G.S., Museum Scientific Staff.

Six Lectures on Chemistry in its Relation to the Human Body. By Mr. A. Norman Tate, F.C.S., &c.; Analytical Chemist.

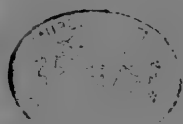
Two Lectures on Antiquarian Discoveries in the Neighbourhood of Liverpool. By Mr. H. Ecroyd Smith, Mayer Museum.

And a concluding Lecture by Mr. Joseph Mayer, F.S.A., &c., &c.; On the Art of Pottery.

15 JUL 1898





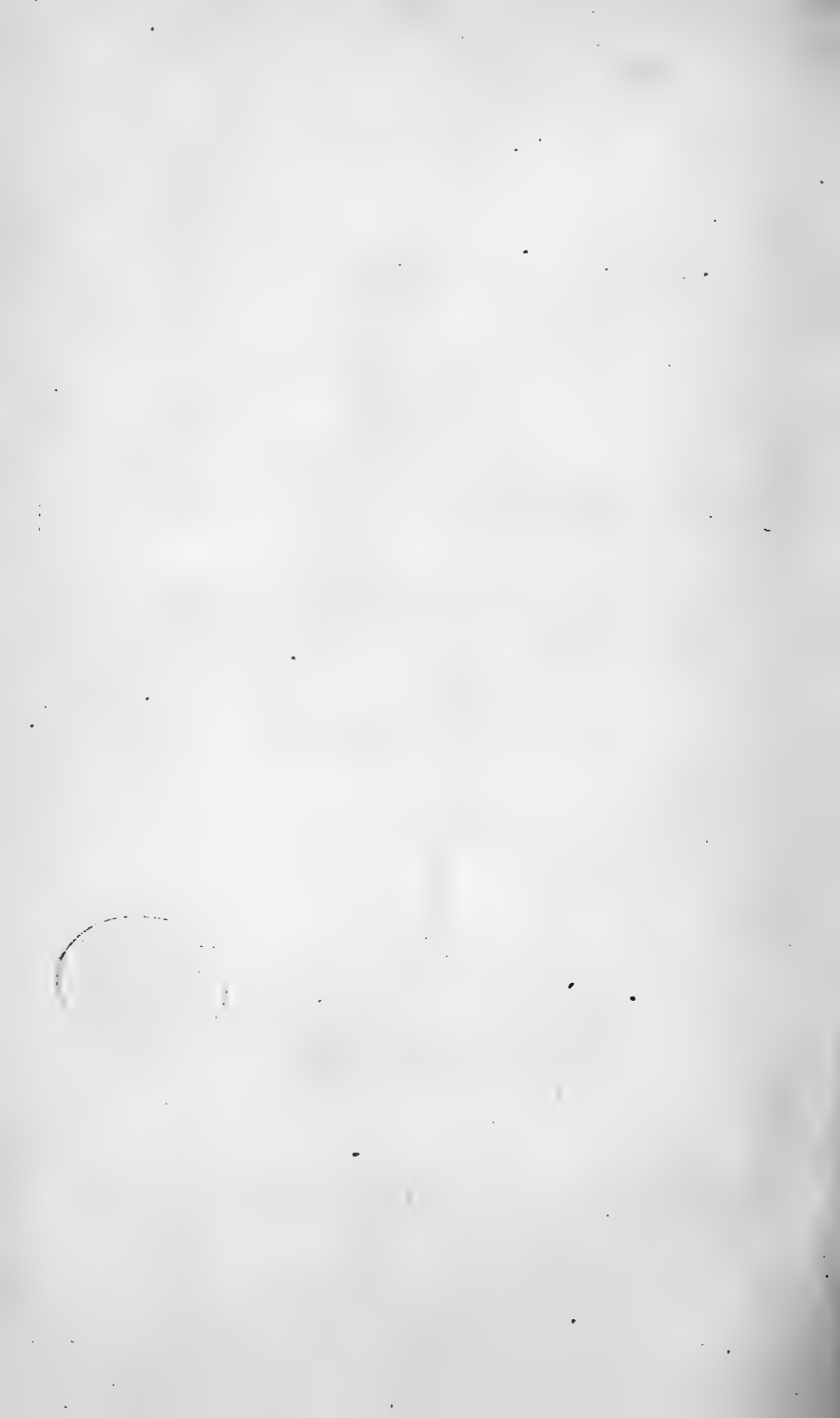


TWENTIETH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM AND GALLERY OF ART,
OF THE
BOROUGH OF LIVERPOOL,
FOR THE YEAR 1872.



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THE LIVERPOOL PRINTING AND STATIONERY COMPANY, LIMITED,
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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 311

LECTURE 1

MECHANICS

1.1

1.2

1.3

OFFICERS AND COMMITTEE

FOR THE YEARS 1871—1872.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

EDWARD SAMUELSON, DEPUTY-CHAIRMAN.

JOHN PEARSON, MAYOR.

WILLIAM BENNETT,

P. H. RATHBONE,

THOMAS AVISON, F.S.A.,

C T. BOWRING,

H. JENNINGS,

J. ARMSTRONG

B. HALL,

F. G. PRANGE,

J. HOUGHTON

STEWART H. BROWN,

REV. H. H. HIGGINS,

JOSEPH MAYER, F.S.A.

Chief Librarian.

GEORGE HUDSON.

Sub-Librarian.

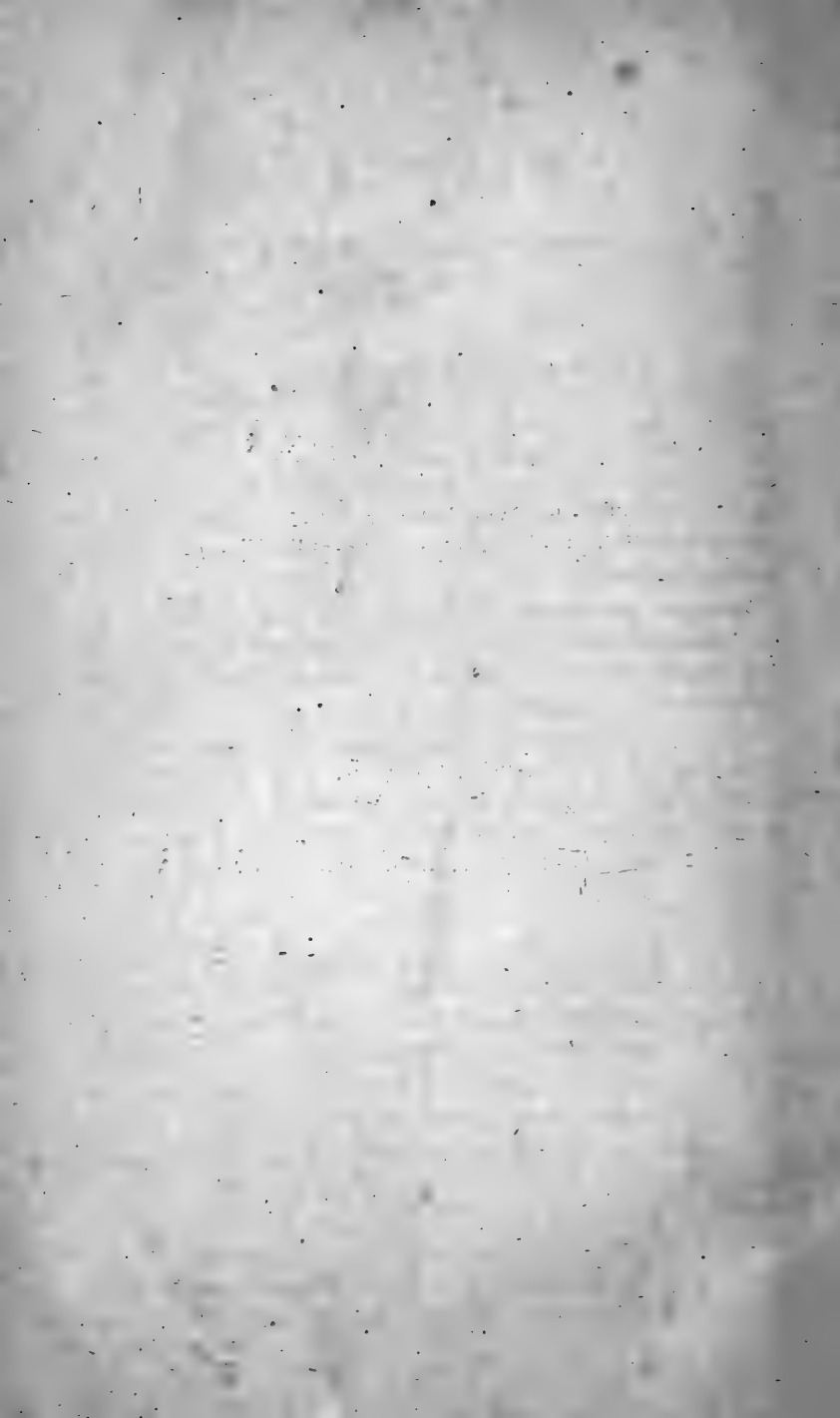
THOMAS FORMBY.

Superintendent of the Lending Libraries.

PETER COWELL.

Curator of the Museum.

THOMAS J. MOORE.



REPORT.

THE twenty years which have elapsed since the opening of the Institution have marked a period of unexampled progress in the country generally, and probably no where more than in Liverpool. It has been the object of the Committee, so far as practicable, to aid the cause of intellectual and educational advancement by providing for public use the best works in every department of literature, science and art. The success has, on the whole, fully borne out the most sanguine anticipations of the founders. The career of such an institution, steadily pursuing its course of usefulness, presents few incidents of a sensational character to record. Its best eulogium is the fact of its quietly carrying out the objects for which it was established. At the same time, every year affords some variety of operation, and some feature worthy of a passing notice.

During the past year the Schools which have been carried on by the Corporation for nearly half a century have been handed over to the School Board. This Committee has therefore ceased to have any connexion with their management.

In last year's Report a statement was presented respecting the Exhibition of Pictures which had been held in the galleries of the building. The experiment has been repeated during the past year with a very satisfactory result. The particulars are as follows:—

Number of Pictures Exhibited	...	...	...	...	944
Sculpture	...	...	...	...	15
Number Sold	...	...	...	...	242
Amount of Sales	...	...	...	...	£6,214 4s. 6d.
Number of Visitors exclusive of Season Ticket holders	...	...	...	...	22,894
Number of Season Tickets	...	...	...	...	333

The surplus from last year's Exhibition (£600) has been expended in the purchase of two pictures for the Permanent Gallery—

THE FALL OF RIENZI, by *F. W. W. Topham.*

A NORTH DEVON GLEN, by *J. W. Oakes.*

It is expected that after the payment of all expenses a considerable surplus will remain for the further purchase of pictures from the next Exhibition.

At the close of the Exhibition a very pleasing tribute was paid by a number of the exhibiting artists to the Mayor, Edward Samuelson, Esq., and Mr. Philip Rathbone, to whose exertions a large portion of the success

of the undertaking was due. This presentation consisted of two port-folios of sketches, many of them from names of high eminence, accompanied by an illuminated address to each of these gentlemen.

The Art Department is constantly receiving fresh accessions. In addition to the pictures purchased for the permanent Gallery, a very valuable collection has recently been added to the art treasures. This consists of a series of Miniatures, Medals, &c., of the Bonaparte Family, formerly in the possession of the Emperor of the French, purchased many years ago by Mr. John Mather, of Liverpool, and by him bequeathed to the town. The collection is unique, and both artistically and historically is of the highest interest.

The courses of popular lectures, commenced seven years since, have been continued during last winter successfully. Particulars of them will be found at the end of this Report.

The new catalogue of the Reference Library, prepared by Mr. Samuel Huggins, has been completed, comprising all the books received to the end of 1870. This has been a work of great labour, time, and expense. No pains have been spared to render it not only available for the purposes of the Library, but as a useful work of reference for students in every department of enquiry. A Supplement is in preparation, bringing the catalogue down to the end of the present year.

The crowded state of the book-shelves has for some time demanded re-arrangement and extension of accommodation. This it is proposed to provide by fitting up the rooms in the basement immediately under the library for Parliamentary papers, Specifications of Patents, files and volumes of newspapers, Transactions, and other works of pure reference. This will gain considerable space for works in general literature.

The Students' room is becoming too limited for the numbers holding special reading tickets; but the room above, to which access is already provided by a separate staircase, will double the accommodation.

The recent publication on an extensive scale of photographs of the Antiquities and Art treasures in the British Museum has drawn attention to the desirability of a similar illustration of the objects of art in the Museum, and especially in the Mayer collection, many of which are unique. The expense and risk of undertaking such a work presented a serious obstacle to its being carried out by the Committee, but happily an arrangement has been entered into with Messrs. Vandyke & Brown, by which the object will be accomplished, it is believed in a superior manner without any risk to the Institution.

In addition to the work proper to the several departments of the Library, Museum, and Art Gallery, it has been the desire of the Committee to utilize as far as practicable the available portions of the buildings for other objects of a kindred nature. The Government examinations for the Civil Service, and the Cambridge examinations of the female Classes for honours have been held in the building, which has also afforded accommodation to the Liverpool School of Science. Lectures have also been delivered in the theatre to the Volunteers by Col. Peel Yates, R.A.

On the whole, every department may be pronounced to be in a state of efficiency and progressive usefulness. The principal want which remains to be supplied is a suitable building for the Gallery of Art. Evidences are continually being manifested of the loss the community is sustaining for want of a place to receive and display pictures and objects of taste, which there is every reason to believe would flow in freely if provision were made for their reception. Liberality in this direction is chilled and repelled by the present absence of accommodation.

The following are the statistics in each department:—

REFERENCE LIBRARY.

The number of volumes issued during the year has been 470,230, against 507,335 in the previous year. This diminution can only be accounted for by the flourishing state of employment in the different branches of trade during the past twelve months.

The following is a classified list of the Books issued:—

CLASSIFICATION.	Volumes.	Daily Average about
Theology, Morals and Metaphysics	11,320	40
Natural Philosophy, Astronomy, Chemistry, &c.	10,381	37
Natural History, Botany, Mineralogy, &c.....	9,561	34
Science and the Arts, Architecture, Painting, Music, &c.	27,494	97
History and Biography	19,604	69
Topography and Antiquities	7,323	26
Geography, Voyages, and Travels.....	15,745	56
Miscellaneous Literature	200,356	706
Jurisprudence, Law, and Politics.....	3,185	11
Commerce, Political Economy, and Social Statistics ...	2,205	8
Education, Logic, Language, &c.....	7,363	26
Poetry and Dramatic Literature	10,987	39
Works of Imagination.....	136,160	479
Classical Literature.....	2,120	8
Heraldry, Encyclopædias, and Works of Reference.....	6,426	23
TOTAL.....	470,230	1,659

During the year 1,745 volumes of books have been added to the Library, viz., 1,376 by purchase, 120 from the Commissioners of Patents, and 249 by donation, under the following heads :—

CLASSIFICATION.	1871	Additions.	1872
Theology, Morals, and Metaphysics.....	4,304	101	4,405
Natural Philosophy, Astronomy, &c.	1,288	34	1,322
Natural History, Botany, Mineralogy, &c.....	3,064	120	3,184
Science and the Arts, Architecture	5,814	229	6,043
History and Biography.....	7,482	213	7,695
Topography and Antiquities.....	2,378	77	2,455
Geography, Voyages, and Travels	3,274	108	3,382
Miscellaneous Literature	9,943	469	10,412
Jurisprudence, Law, and Politics.....	4,512	100	4,612
Commerce and Social Statistics	489	27	516
Education, Logic, and Language.....	852	30	882
Poetry and Dramatic Literature.....	2,369	83	2,452
Works of Imagination	5,299	74	5,373
Classical Literature	330	13	343
Heraldry, Encyclopædias, and Works of Reference	1,726	67	1,793
TOTAL.....	53,124	1,745	54,869

LENDING LIBRARIES.

The statistics of this department present little variation from those of last year. There has been a slight falling off in the issues to the number of 2,730 volumes, all under the head of fiction. Last year the volumes replaced were unusually large, being a total of 1,737; this year, however, they have been fully 1,000 volumes less. The volumes worn-out and withdrawn are nearly in the same proportion; the numbers being 1,431 last year, 555 this.

Donations have been received from R. A. Macfie, Esq., Mr. G. Smith, and Mr. Thomas Hugo.

The following are the statistics :—

	North.	South.	Total.
Books lent	215,049	207,542	422,591
New Tickets granted	2,341	2,265	4,606
Tickets cancelled	2,162	2,402	4,564
Tickets renewed	2,077	2,254	4,307
Total Readers on Books	4,418	4,519	8,937
Books lost and paid for	44	47	91
Books lost.....	...	9	9
Volumes worn out and replaced	367	350	717
Volumes worn out and withdrawn	193	362	555
Total No. of Volumes in Libraries	20,169	20,629	40,798
No. of Volumes added.....	571	478	1,049

The Volumes issued are classified as follows :—

	North.	South.	Total.
Theology, Morals, &c.....	3,659	4,172	7,831
Natural Philosophy	2,699	2,208	4,907
Natural History.....	1,417	2,106	3,523
Science and the Arts	6,055	4,719	10,774
History and Biography.....	9,510	9,095	18,605
Topography and Antiquities	942	1,028	1,970
Voyages and Travels	4,971	5,480	10,451
Miscellaneous Literature.....	16,417	18,039	34,456
Jurisprudence, Law, and Politics.....	260	258	518
Social Science and Political Economy.....	546	522	1,068
Education, Language, &c.	2,071	1,941	4,012
Poetry and the Drama.....	1,989	1,734	3,723
Prose Fiction	164,236	155,840	320,076
Latin and Greek Classics	115	302	417
Embossed Books for the Blind	162	98	260
Total	215,049	207,542	422,591

MUSEUM.

STATISTICS.

	1870-71. (49 Weeks.)	1871-72. (52 Weeks.)	Increase.
Total Day Visitors	363,657	420,220	56,563
Weekly Average	7,421	8,081	660
Daily Average	1,804	1,972	168

The Institution was closed to the public for three weeks in September, 1870, on account of the meeting of the British Association, and necessarily reduced the number of visitors for 1870-71. The numbers for 1871-72 are, however, altogether in excess, as shown by the increase in the weekly and daily averages.

DONATIONS.

Two fine Locusts (*Acridium*), taken at Panama; presented by Capt. J. Baker, S.S. "Bolivar."

Two Chicks of the Common Peafowl; presented by Mr. Alderman Bennett.

A Bird-catching Spider; presented by Captain Brooklyn, S.S "Cenace."

Fine stuffed specimens of the Canvass-back Duck (*Fuligula valisneria*), (male and female), and Red-headed Duck (*Fuligula ferina*), (male and female); presented by Mr. George Stewart Brown, of Baltimore, per Messrs. Brown, Shipley and Co.

Four young Alligators, from the Mississippi; presented by Captain William Brown, barque "Magnet."

A small Coral Snake, from South America; presented by Mr. Carter.

A young living Alligator, from the Mississippi; presented by Capt. J. Chisham, Ship "Alhambra."

A large Scorpion, from Madras; presented by Mr. A. C. Cole.

The Skull of a Japanese Dog; presented by Dr. Collingwood.

A living King Crab, or Horse-shoe Crab (*Limulus*), from Boston; presented by Mr. John Costello.

Three Baleen-plates of the Steypireydr Whale (*Balænoptera Sibbaldii*); 1 Baleen-plate of *Balænoptera rostrata*, and 1 Baleen-plate of a Finner Whale (left side), from Hamner Voe, North Marine, Shetland; presented by Dr. Millen Coughtrey.

A Heart-headed Shark, from Tampico; presented by Messrs. Auguste Cros and Co.

Specimens of Red-Shank, Turnstone, Knot, Ring Plover, and Dunlin; presented by Mr. J. Muir Dowie.

An Antique Enamelled Watch Dial; presented by Mr. John Ellis.

150 Antique Sculptures, from Cyprus; presented by Captain Fothergill, S.S. "Thessalia."

The Skin of a large Gar Pike (*Lepidosteus*), from Mexico; presented by Mr. George Foy, (Chief Officer of the "Salterbeck.")

A very fine and elaborate Suit of modern Japanese Armour; and a specimen of Flexible Sandstone, from Delhi; presented by Mr. Robert Gladstone, J.P.

Two living Fresh-water Fish (*Lebiasina bimaculata*), from Bolivia; presented by Miss A. I. Godbold.

A large Antique Spur; presented by Captain Gray.

Two specimens of Shap Granite; presented by Mr. R. Greenwood.

Ten living specimens of Tortoises and Terrapins, from New York and Pennsylvania; presented by Professor James Hall, State Geologist, Albany, New York.

Three living Fish, from West Coast of South America; and nine specimens of Peruvian Pottery (*Huachos*); presented by Capt. Hammill, R.M.S.S. "Magellan."

The Carapace of a Giant Manis (*Pholidotus giganteus*); a large Python, a large Bat, a Galago, a Giant Plantain-Eater (*Musophaga gigantea*), a Hornbill, and a Brown Gallinule, all from West Africa; presented by Captain Hannah, S.S. "Angola."

Two Albatrosses, 2 Cape Pigeons, and a Tern; presented by Capt. Hastings, Ship "Clyde."

An Antique Pair of Spectacles; presented by Mrs. Hayden, per Mr. J. Miller.

The "Reserve" Poison Fangs of an adult male Rattlesnake (*Crotalus horridus*), from New Orleans; presented by Dr. J. W. Hayward.

Two ancient Indian Skulls, found near Lima; and four specimens of Pottery (*Huachos*), dug up near Truxillo; presented by Rev. H. H. Higgins.

Four Shells (*Monodonta articulata*); 2 Shells (*Venus verrucosus*); 4 Shells (*Tapes decussata*), a small collection of living Marine Zoophytes (*Rhipidigorgia*, &c.), dredged in Gibraltar bay; a Sea Pen (*Pennatula*); 2 Sea Anemones; 12 living Molluscs; a bottle of specimens of Fish, Crustacea, &c.; three Fish; three Crustaceans; from the Mediterranean; 6 living Fish (*Clarias anguillaris*) from the Nile; Anemones, Crabs, Molluscs, &c., for the Aquaria, from Alexandria and Gibraltar Bay; a large orange-coloured Starfish, Hermit Crabs with Parasitic Anemones attached, and other living specimens; collected and presented by Captain Horsfall, S.S. "Canopus," Associate of the Literary and Philosophical Society of Liverpool.

A Kingfisher's Nest and 6 Eggs; presented by Rev. W. Houghton.

A collection of Shells; 2 Waxwings, and a Humming Bird (*Mellisuga humilis*), all from Jamaica; presented by Mr. Lionel Hutchings.

Two Snakes; 11 Lizards, and a Mygale Spider, from Valparaiso; presented by Mr. Harry B. James.

A Sword found in Gibraltar Bay, and a large Copper Coin, said to be Norwegian; presented by Mr. Victor Kahnn.

Three living specimens of a large Land Shell (*Achatina variegata*), used as an article of food on the West Coast of Africa; and living specimens of large Sessile Barnacles; presented by Mr. R. J. Keen.

An Assignat for 25 Livres (1793) ; presented by Mr John King.

A young Harp Seal, from Newfoundland; presented by Mr. J. J. Langley.

A Sharp-nosed Eel (*Anguilla acutirostris*); presented by Mr. T. Leatherbarrow.

The Skin and Skull of a large Capybara, from the Amazons; collected and presented by Mr. Joseph Leyland.

Specimens of Fossil Fish, from the Eocene Limestone of Monte Bolca, and other Fossils; specimens of Minerals; a series of small Rock specimens, for lectures; a Painted Roll, representing a Hindoo State Procession; a Pair of Snow Shoes; an Esquimaux Sealing Harpoon; two elaborately-carved Adzes, from the Pacific; a Canoe, Paddle, Spears, and Clubs; presented by the Directors of the Liverpool Institute.

A living Sea Mouse (*Aphrodita aculeata*); presented by Mr. Charles Long, Master No. 3 Pilot Boat.

A large Water Snake or *Sucuruju* (17 feet long), from Paranahyba, Brazil; presented by Captain J. McCoskrie, barque "Theresina," per Messrs. R. Singlehurst and Co.

A small antique Sack Bottle, found in excavations in Vernon Street; presented by Messrs. Macfie and Sons.

A Plated Ray (*Urogymnus*), from the Red Sea; presented by Mr. Norman McLeod.

Two young Two-humped Camels (14 days old); and a young Leopard; presented by Mrs. Manders.

A Spotted Snake, from Parabia, and a young living Alligator, from New Orleans; presented by Messrs. Mardon, Mardon, and Ashlin.

Ethnological specimens from Camaroons River, consisting of Drums, Bells, Rattles, and other Musical Instruments; Bowls, Combs, Ladles, Flasks, Switches, Bags, Swords, Staves, and Spears; also, the Skull of a young African Elephant, a Potto, a Galago, Rostrum of a Saw Fish, 2 Crustaceans (*Callianassa Turnerana*), and other specimens, all from Camaroons; presented by Mr. G. B. Medley.

A Sun Fish (*Pomotis vulgaris*); 10 Rock Fish (*Leuciscus pygmaeus*); 3 Shiners (*Leuciscus nitidus*), and other living specimens for the Aquaria, from New York; collected and presented by Captain Mortimer, ship "Isaac Webb," Associate of the Literary and Philosophical Society of Liverpool.

A Belt of a Patagonian Chief; presented by Mr. Musgrove.

Six Microscopic Slides; presented by Captain J. A. Perry, Associate of the Literary and Philosophical Society of Liverpool.

Four Silurian Fossils, from the Bala Limestone; presented by the Rev. John Peter.

A remarkable Concretionary Mass of Clay Ironstone, from the Coal Measures near Chicago; presented by Mrs. Powell.

A bottle of Reptiles, Centipedes, &c., from Batavia; presented by Mr. D. T. M. Pryce.

Three dozen Salmon Ova; presented by Mr. W. Ramsbottom.

A Medallion formed (in a mould) by Depositions of a Mineral Spring at Rudicofane, near Rome; presented by Mrs. Rathbone.

Twelve Birds' Eggs, from the Hebrides; presented by Mr. A. E. Rathbone, junior.

Fifteen Lizards (*Lacerta agilis*), from Southport; presented by Mr. J. B. Richards.

Photograph of a Sevres Dish in Porcelain, with Portraits of Louis XV., Madame Pompadour, and others; presented by Messrs. Robinson and Thompson.

Seventy specimens of British Lepidoptera (chiefly Moths); collected and presented by Mr. Percy H. Russ.

Six living Fish (*Clarias anguillaris*), from the Nile; presented by Mr. Thomas Shadwell, Alexandria, per Captain Horsfall.

Four Cocoons of a Lepidopterous Insect, from Buenos Ayres; presented by Captain Slack, S.S. "Laplace."

A small Fresh-water Terrapin, for the Aquarium; presented by Mr. Thomas Speight.

A specimen of Crystallized Coal, from Coalbrooke Vale, Glamorgan-shire; presented by Mr. G. S. Spreckley.

A young living Lizard (*Hydrosaurus salvator*), from West Africa; presented by Mr. Charles Stephens.

A living King Crab, or Horse-shoe Crab (*Limulus*), from Boston; presented by Mr. John Taylor.

Two living Chameleons, from Alexandria; presented by Mr. Samuel Taylor, S.S. "Arabia."

An Anomalous Stem, 6 feet long, probably of a gigantic species of Sea-Pen (*Pennatulidæ*), brought from Burrard Inlet, British Columbia, and presented by Captain Tomlinson, Ship "Elmstone."

A young Gorilla, a small bushy-tailed Rodent, 2 living Electric Fish (*Malapterurus beninensis*), and a collection of Fish, Reptiles, Insects, &c., from Old Calabar; collected and presented by Captain J. B. Walker, F.R.G.S., Associate of the Literary and Philosophical Society of Liverpool.

Twenty stuffed specimens of Exotic Fish; presented by Mr. A. R. Wallace.

Frontlet and Horns (imperfect) of a young Red Deer, found about 1867, at Rainford Moss about 20 feet below the surface; presented by Mr. Thomas West.

A Native Hand Loom, and a piece of Cloth and Samples of Fibre used therewith, from Old Calabar; presented by Captain J. A. White.

Three Nests of Young Spiders, from Ireland; presented by Dr. Whittle.

A Trap-door Spider, or "Tarantula" (*Mygale*), from Jamaica; presented by Mr. James P. Wright.

A Dog Fox, from Scotland, and a Greyhound for a Skeleton; presented by Mr. Halifax Wyatt.

PURCHASES.

Two specimens (male and female) of the Black Lemur (*Lemur macaco*), from Madagascar; 3 young Pcbas, and stuffed Heads of Wild Boar and Wolf.

A young Turkey Buzzard, and 17 other Birds.

Eighteen Birds' Eggs,

Two Wolf Fish, and 2 other Fish,

A Temminck's Alligator Tortoise,

A piece of Coral, attached to shell,

A slab of Flexible Sandstone, an Ærolite, and 10 Miocene and other Fossils.

Larval specimens of British Lepidoptera.

Specimens of Norway Lobsters, and other living specimens for the Aquaria.

Antique Statuette of St. James, and Medallions of the Twelve Cæsars.

Bowl and Cover, Wedgwood ware.

Eighty-five Flint and 13 Bronze Implements, and a Copper Spear Head.

EXCHANGES.

A Cast of Great Fossil Tortoise, sent to Professor Agassiz, Museum of Comparative Zoology, Harvard College, Cambridge, Massachusetts.

A large cast of *Plesiosaurus Cramptoni* of the Lias at Whitby, received from the Royal Dublin Society, from the original specimen in the Museum of that Society, in exchange for Cast of Great Fossil Tortoise.

An Umbrella Bird (*Cephalopterus glabricollis*), and a Tanager (*Lanio leucothorax*, Salvin), received from Mr. Osbert Salvin in exchange for a Guan (*Penelope Sclateri*).

The Skull and Mandibles, and 8 Casts of Bones (*Sternum, pelvis, &c.*), of Great Auk (*Alca impennis*); and 2 rare Crabs (*Geryon tridens*), from Christiania Bay; received from Prof. Laur. Esmark, University of Christiania.

Fresh-water Fish (Roach, Dace, Bream, &c.) for the Aquarium; received from Mr. G. B. Rothera, Nottingham; in exchange for Salt-water Specimens.

A Cast of large Trilobite (*Paradoxides Harlani*), from Braintree Limestone, Boston, U.S.A., sent to Professor Haughton, Trinity College, Dublin.

A Set of Casts of Dodo Bones, sent to Professor Williams, Cleveland, U.S.A.

LECTURES.

During the first three months of the year, the following Free Lectures, &c., being the Seventh Winter Course, were delivered in the Large Lecture Hall of the Museum:—

Ten Lectures on Art. By Mr. W. J. Bishop, Drawing Master of the Liverpool College, and Head Master of the Liverpool North District School of Art.

Four Lectures on Mineralogy. By Mr. F. P. Marrat, M.L.G.S., Museum Scientific Staff.

Six Lectures on Geology and its relation to Mining. By Mr. G. H. Morton, F.G.S., F.R.G.S.I.

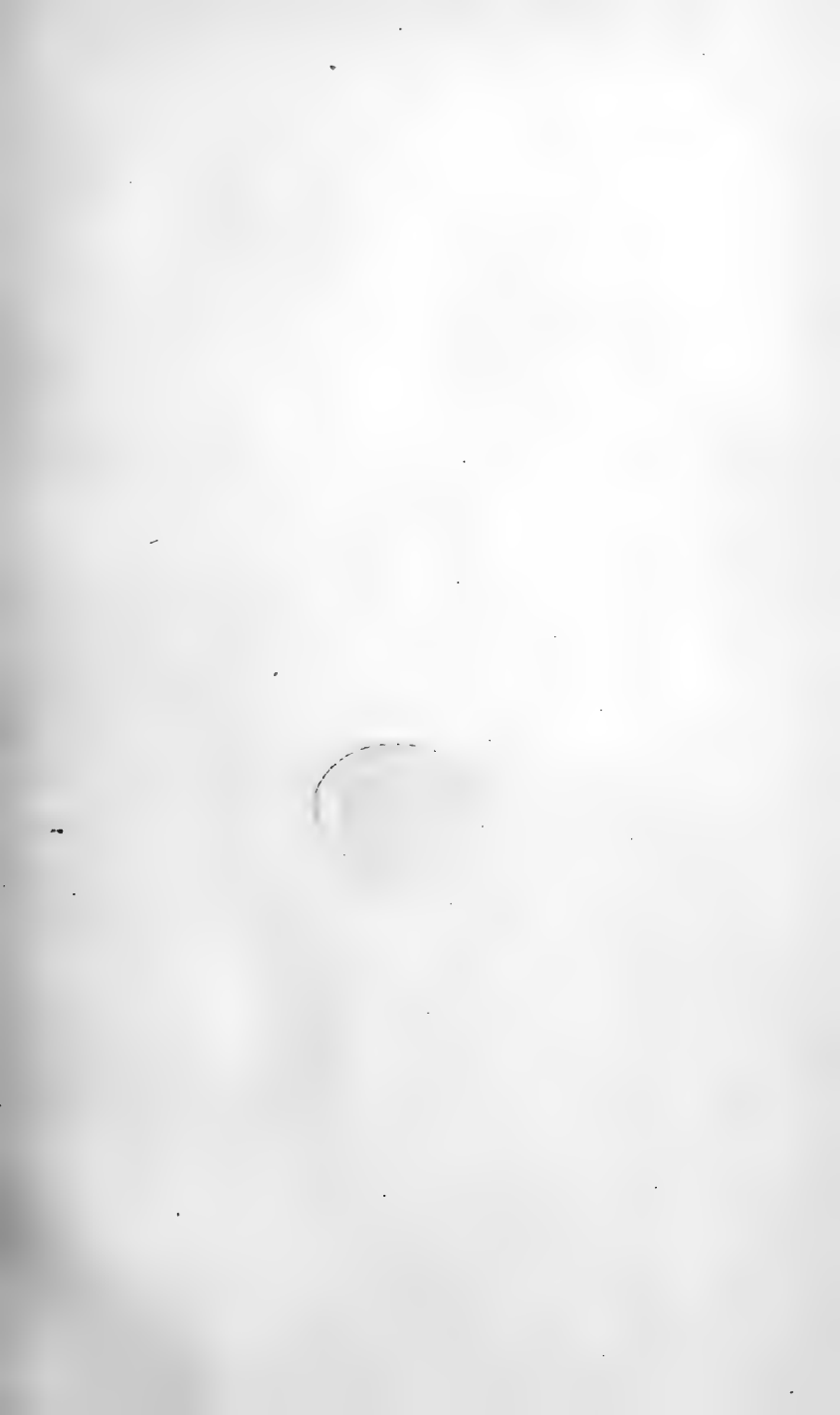
Six Lectures on Chemistry in relation to Domestic Life, entitled "Healthy Homes," illustrated by numerous Experiments, Diagrams, &c. By Mr. A. Norman Tate, F.C.S., Analytical Chemist.

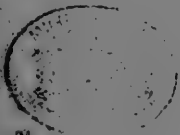
Six Dramatic Readings. By Mrs. H. J. Gorst.

Prof. W. F. Barrett, F.C.S., of the London International College, and Science and Art Department, South Kensington, delivered a Course of Four Lectures on Magnetism, in April.

15 JUL. 1898





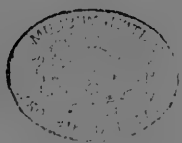


TWENTY-FIRST
ANNUAL REPORT
OF THE COMMITTEE
OF THE
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MUSEUM, AND GALLERY OF ART,
OF THE
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FOR THE YEAR 1873.



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HENRY GREENWOOD, PRINTER, 32, CASTLE STREET.

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MUSEUM

OFFICERS AND COMMITTEE

FOR THE YEARS 1872—1873.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

T. AVISON, F.S.A., DEPUTY-CHAIRMAN.

E. SAMUELSON, MAYOR.

WILLIAM BENNETT,

P. H. RATHBONE,

C. T. BOWRING,

T. HOLDER,

J. ARMSTRONG,

B. HALL,

F. G. PRANGE,

J. HOUGHTON,

C. TURNER, M.P.,

STEWART H. BROWN,

REV. H. H. HIGGINS,

JOSEPH MAYER, F.S.A.]

Chief Librarian.

GEORGE HUDSON.

Sub-Librarian.

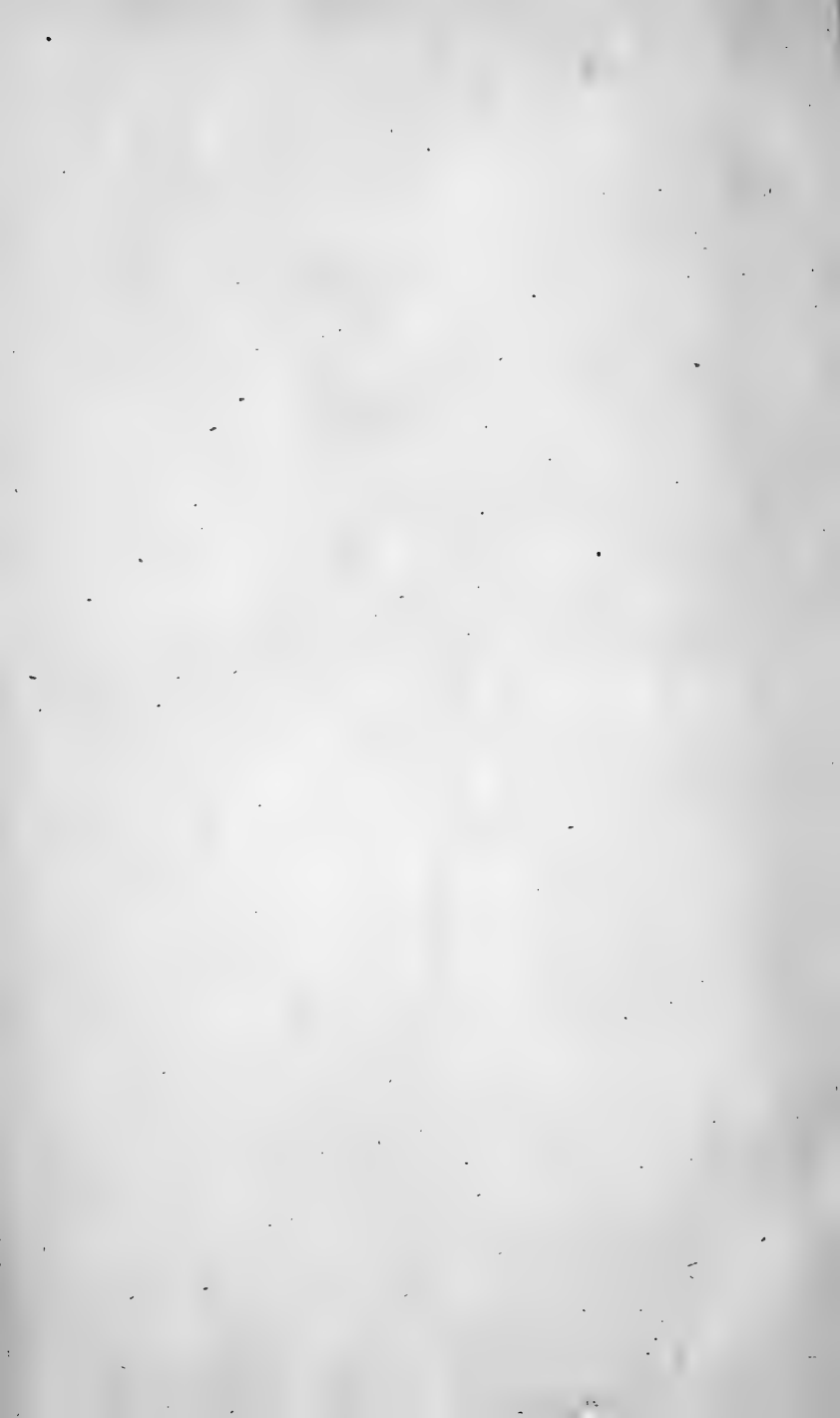
THOMAS FORMBY.

Superintendent of the Lending Libraries.

PETER COWELL,

Curator of the Museum.

THOMAS J. MOORE.



REPORT.

THE general success of the institution has been fully sustained during the past year, as will be seen from the statistics subjoined. Every department appears to be fulfilling its purpose in contributing to the intellectual progress of the community.

ART DEPARTMENT.

The Art Department claims the first notice. The success of the annual exhibitions of pictures held during two successive years naturally drew attention to the want of a suitable building where a permanent gallery of art might be collected, and the annual exhibitions held without the necessity of disturbing the arrangements of the Museum for several months in the year, as has hitherto been the case. An attempt was made without success during the past year to gain the aid of the Council towards the erection of such a building, and subsequently offers of contributions were made by private individuals to the extent of about £7000 for the same purpose. The public, however, did not come forward in response, and the whole project was on the eve of a collapse, when the Mayor, Mr. A. B. Walker, nobly came to the rescue, and immediately after his election to the chair on the 10th of November announced his intention of devoting the sum of £20,000 to the erection of a building for an Art Gallery.

The Council, in accepting this munificent proposal, unanimously resolved that the building should be called "The Walker Art Gallery." The site has been fixed on the open land to the east of the present Library and Museum, and the plans are now in course of preparation by Messrs. C. Sherlock and H. H. Vale, the architects appointed by the Mayor.

The Committee congratulate the town on the solution of the difficulty, by this generous proposal.

The third annual exhibition of pictures has just been closed. The results will be found embodied in the following report of the Sub-Committee of the Exhibition:—

The Sub-Committee have now the pleasure to report the results of the late Autumn Exhibition of Pictures at the Free Library and Museum.

The Exhibition was opened to the public from Monday, September 1st, to Saturday, November 29th, during the day, at a charge of 1s., and in the evening from Monday, October 13th, to Saturday, November 29th, at 3d.

The number of admissions by payments at the door amounted to 13,318 in the morning, and 18,361 in the evening, making a total of 31,679, besides 523 season tickets, and about 10,000 pupils of educational establishments of all classes and denominations admitted gratuitously.

The number of works exhibited consisted of 454 oil colours, 568 water-colours, 35 pieces of sculpture and other works of art, forming a total of 1,057.

Of these, 972 were for sale, and 271 were actually sold for sums amounting to £7,402 17s. 6d., £787 10s. being expended by the Corporation in pictures for the permanent Gallery of Art now in the course of formation. The total receipts amounted to £1,566 1s. 3d., leaving a profit of £466 1s. 0d.

The general results of this Exhibition have been encouraging, as the following figures denote, and when their nature is examined they are still more satisfactory:—

	1872.		Daily Average.	
DAY ADMISSIONS, 1s.—	13,276.....	90 Days.....	147 $\frac{4}{9}$	
	(12 Days at 6d. each.)			
EVENING ,, 6d.—	9,618.....	48 Nights.....	200 $\frac{1}{8}$	
	(12 Nights at 3d.)			
	1873.		Daily Average.	
DAY ADMISSIONS, 1s.	13,318	78 Days.....	170 $\frac{5}{8}$	
	(All at 1s. each.)			
EVENING ,, 6d.	18,361	42 Nights.....	437 $\frac{7}{8}$	
	(All at 3d.)			
WORKS EXHIBITED.—	1873.....	OIL.	WATER COLOUR.	SCULPTURE, &C.
		454	568	35
	1872.....	430	501	29
Increase	24	67	6	

The large increase in the number of season tickets, viz., 523 as against 332 in 1872, demonstrates the existence of a rapidly-increasing section of the public, who return again and again to study the pictures carefully, and who will in time form a body of independent and cultivated art opinion, the effects of which must be most advantageous to the town.

Hitherto the Committee have been somewhat disappointed at the comparative apathy of the artizan class, but this year the attendance in the evenings has been very hopeful, so much so, indeed, as to warrant the expectation that an interest in Art may be thoroughly excited, and a knowledge diffused among that class which may be productive of valuable industrial results. The presence of Art Galleries and Museums in Paris has enabled that city, in the absence of most material advantages, to become a large manufacturing centre, owing solely to the educated taste of her artizans. London has, within the last few years, become the seat of art manufactures, which have in several instances been the direct outgrowth of South Kensington, and which in most cases owe their success to the interest in art it has excited, and the opportunity of study it affords. If Liverpool is to become eventually more than a mere warehousing port, any means of attracting such manufactures into her midst should be most anxiously improved. In the last century Wedgwood sent large quantities of his earthenware to be decorated by transfer in Liverpool. At present considerable quantities of Staffordshire china goes to London for decoration; and in stained glass and other artistic glass manufactures, it is more than competing with Munich and Venice. The attendance of the artizan class at these Exhibitions is, therefore, a most important element from an industrial point of view.

The increase in the value of sales is also a subject of sincere congratulation, especially as regards the local artists. Out of £7,402 17s. 6d. the local sales amounted to no less than £1,704 1s. 6d., and, as might be expected, if the numbers of works are compared, the proportion is very much larger. London artists sold 129 out of 545 sent; local artists 87 out of 213 sent; and provincial artists 55 out of 214 sent; so that the local and provincial works sold together amount to 13 more than the metropolitan works. There seems, therefore, no indisposition to encourage native talent as soon as it is recognised; and if these Exhibitions had been successfully instituted some years previously, it seems probable we might have retained in our midst artists who were driven away to seek elsewhere encouragement which their own townsmen would gladly have afforded them.

The general standard and the character of the works exhibited have again evinced a decided improvement, and more especially has this been the case as respects local artists. Both in character and number their works showed a decided and very encouraging advance upon previous Exhibitions, which the Committee hope may become yet more evident in each succeeding year.

The Committee have again to thank the leading artists of the country for their hearty co-operation, and to congratulate the Council on the number of

works exhibited for the first time, and especially painted for this Exhibition by artists of the very highest repute, and which gave to it an *eclat* to which hitherto provincial Exhibitions have not been able to lay claim. This gratifying feature may, they trust, become more prominent every year.

The munificent offer of the present Mayor of providing the town with a Gallery of Art, must of necessity give an increased impetus to our Annual Exhibitions, and will doubtless ensure the next year's being a still greater success than the last.

The Committee cannot conclude their Report without calling attention to the many collateral results that have been found to arise from their Exhibitions—among which the greatly increased personal intercourse between the Artists and Amateurs, which they have fostered, should be regarded as not the least beneficial to the interests of Art. The Committee think that they are justified in attributing in great measure, to these Exhibitions the late rapid spread of a general interest in and love of Art in this town, which a few years ago was restricted to a comparatively confined circle.

The surplus from the previous year, aided by a grant from the Library fund, has been expended in the purchase of the following pictures:—"The Pescheria," by Goodall; "Even-song," by Mark Antony; and "Sintram," by Miss Starr.

The following works of art have also been presented during the year:—

DONATIONS.

Two marble statues by John Gibson, R.A. ("Flora" and "Cupid Disguised.") Presented by Mr. Richard Alison.

An ancient Japanese imperial vase of Cloisonné enamel, with case and stand. Presented by Mr. James L. Bowes.

A portrait of Mrs. Bower, of Plymouth, by Sir Joshua Reynolds. Presented by Mr. W. S. Caine.

A life-size marble bust of the late Mr. James Newlands, C.E., Liverpool Borough Engineer, by G. E. Ewing. Presented by Mr. Robert Galloway on behalf of the subscribers.

Full-length portrait in oil of the late Mr. William Ewart, of Liverpool, by Mosses. Presented by the Right Hon. W. E. Gladstone, M.P.

A large vase from the Royal Porcelain Manufactory at Berlin, with the painting thereon of "Eurydice vanishing from Orpheus." Presented by Mr. James Harrison.

An antique ivory cabinet, surmounted by an equestrian figure. Presented by Mr. Joseph Mayer, F.S.A.

An oil painting of Liverpool in 1769 (view from Holt Hill, with Birkenhead Priory and Manor House, and Tranmere Pool in the foreground). Presented by Mr. J. A. Picton, J.P., F.S.A.

A large oil painting, "The Pilgrimage," by A. Legros, from the Autumn Exhibition, 1872. Presented by Mr. P. H. Rathbone.

An oil painting by J. M. W. Turner, R.A. Presented by Mr. Edward Samuelson, J.P.

A large oil painting, "Leonora di Mantua," by V. Prinsep, from the Autumn Exhibition, 1873. Presented by Messrs. P. H. Rathbone and G. Holt.

A large oil painting, "The Roman Aqueducts, from the Palace and Church of St. John Lateran, with the Alban Hills, &c.," by J. B. Pyne. Presented by Mr. Benson Rathbone.

PURCHASES.

Turner's *Liber Studiorum*.

Oil painting of "Rivington Pike," by F. W. Hulme.

Oil painting of "The Old Oak," by S. Williamson.

LECTURES.

The Theatre and other rooms in the building have been utilised during the year for the purposes of the Civil Service Examinations, the Cambridge Female Examinations, and other objects of public interest.

The courses of Winter Lectures have been very attractive and attended by crowded audiences. The list of those delivered is as follows :—

Eight Lectures on Art, by Mr. W. J. Bishop, Drawing Master of the Liverpool College, and Head Master of the Liverpool North District School of Art.

Three Lectures on Natural History, by Mr. T. J. Moore, Curator of the Museum.

Three Lectures on Geology, by Mr. G. H. Morton, F.G.S., F.R.G.S.I.

Two Lectures on Coal, by Mr. F. P. Marrat, M.L.G.S., Museum Scientific Staff.

Three Lectures on the Chemistry of Fuel, illustrated by numerous experiments and diagrams, by Mr. Edward Davies, F.C.S., &c.

Three Lectures on Sound, by Professor W. F. Barrett, F.C.S., of the London International College, and of the Science and Art Department South Kensington Museum.

Three Lectures on Our Brain and Special Senses, by Dr. Millen Coughtrey, M.B., C.M., (Edin. Univ.) Demonstrator of Anatomy, Liverpool Royal Infirmary School of Medicine.

Four Readings, Humorous and Dramatic, by Mr. Frederick Kempster, M.A. Oxon.

Two Readings, by Mr. B. H. Grindley.

Four Readings, by Mrs. H. J. Gorst.

And a short concluding Lecture, in the Concert Room, St. George's Hall, on German Music, with Vocal and Instrumental Illustrations, by Mr. John B. Cooper.

REFERENCE LIBRARY.

In addition to the Catalogue, a Supplement has recently been issued, bringing down the acquisitions of the Library to the end of 1872.

The following are the annual statistics :—

The number of volumes issued during the year has been 489,270, against 470,230 in the previous year, being an increase of 19,040 over last year.

The following is a classified list of the books issued :—

Classification.	Volumes.	Daily Average about
Theology, Morals, and Metaphysics.....	15,376	55
Natural Philosophy, Astronomy, Chemistry, &c.....	15,409	55
Natural History, Botany, Mineralogy, &c.....	9,625	34
Science and the Arts, Architecture, Painting, Music, &c. . .	38,262	136
History and Biography	22,029	79
Topography and Antiquities	8,639	31
Geography, Voyages, and Travels	13,857	49
Miscellaneous Literature	171,038	610
Jurisprudence, Law, and Politics.....	3,389	12
Commerce, Political Economy, and Social Statistics	4,266	15
Education, Logic, Language, &c.	8,228	30
Poetry and Dramatic Literature	11,587	41
Works of Imagination.....	138,643	494
Classical Literature	2,553	9
Heraldry, Encyclopædias, and Works of Reference	26,369	94
	489,270	1,744

The increase in the issues is considerable, but the most satisfactory feature is the large proportion of solid works in science and philosophy which form nearly three-fourths of the works taken out. The advantage to students of access to the valuable collections here brought together can

hardly be over-rated, and it is satisfactory to find that the privilege is highly estimated, the Library attaining every year more and more the character of an educational institution of the highest class—that in which the educators and leaders in every branch of science and literature can find the means of fitting themselves for their noble occupation.

During the year 1,959 volumes of books have been added to the Library, viz., 1,667 by purchase, 88 from the Commissioners of Patents, and 204 by donation, under the following heads:—

Classifications.	1872.	Additions.	1873.
Theology, Morals, and Metaphysics	4,405	107	4,512
Natural Philosophy, Astronomy, &c.	1,322	46	1,368
Natural History, Botany, Mineralogy, &c.	3,184	99	3,283
Science and the Arts, Architecture	6,043	306	6,349
History and Biography	7,095	226	7,921
Topography and Antiquities	2,455	110	2,565
Geography, Voyages, and Travels	3,382	101	3,483
Miscellaneous Literature	10,412	535	10,947
Jurisprudence, Law, and Politics	4,612	117	4,729
Commerce and Social Statistics	516	29	545
Education, Logic, and Language	882	49	931
Poetry and Dramatic Literature	2,452	53	2,505
Works of Imagination	5,373	83	5,456
Classical Literature	343	28	371
Heraldry, Encyclopædias, and Works of Reference ..	1,793	70	1,863
	<u>54,869</u>	<u>1,959</u>	<u>56,828</u>

A change has been introduced into the mode of computing the statistics of this department which it is considered desirable to explain. Hitherto reviews, magazines, and periodicals of whatever kind have been entered under the head "Miscellaneous Literature." This year a different plan has been adopted. It was found that of one hundred and thirteen periodicals issued nearly one-half belonged to one or other of the fifteen different classes into which the books are divided; and special statistics having been taken, as a result 55,160 issues have been placed under the respective heads to which they properly belong, leaving a residuum of 73,640 to be added to the division "Miscellaneous Literature," instead of 128,800, as under the former arrangement.

The following statement will explain the position of the periodical literature in the Library:—

Account of Miscellaneous Reviews, Magazines, and Periodicals issued during the year, from 1st September, 1872, to 31st August, 1873:—

Daily Winter Average taken January and March.	448
Do. Summer do. July	472
	<u>920</u>

460 per day for 280 days.... 128,800

Statement of the Daily Average of Scientific Periodicals, &c., issued in March and July, with a small percentage added to cover daily issue of bound volumes of the same classified as follows, and deducted from total general average number usually added to Class H :—

Class.	Average for January.	Average for July.	General Average	Add for Bound Vols.	Total General Average		Total Number issued Per Annum.
A	5	9	7	5	12	Multiplied by 280 days.	3,360
B	9	12	11	5	16	" "	4,480
C	3	15	9	4	13	" "	3,640
D	45	60	62	15	67	" "	18,760
E	1	3	2	1	3	" "	840
F	1	4	3	1	4	" "	1,120
I	1 in 3 dys	2	1	..	1	" "	280
K	4	8	6	1	7	" "	1,960
L	1½	4	3	1	4	" "	1,120
P	..	72	70	..	70	" "	19,600
					197		55,160

Leaving to be added to books issued in Class H, *Miscellaneous Literature*, 73,640.

LIST OF REVIEWS, MAGAZINES, AND PERIODICALS, TAKEN
IN THE REFERENCE LIBRARY :—

QUARTERLY.

Archæological Journal.
Archæologia Cambrensis.
British Quarterly Review.
Dublin Review.
Edinburgh Review.
German Magazine.
Ibis.
Journal of Anatomy.
Journal of the Royal Agricultural Society.
Journal für Ornithologie.
Journal of the Statistical Society.
London Quarterly Review.
Navy List.
Naval Science.
North American Review.
Popular Science Review.
Quarterly Journal of Geological Society.
Quarterly Journal of Science.
Quarterly Review.
Revue Celtique.
Revue et Magasin de Zoologie.
Theological Review.
Westminster Review.
Y Traethodydd.
Zeitschrift für Deutsche Philologie.

MONTHLY.

Academy.
All the Year Round.
Annals and Magazine of Natural History.
Army List.
Art Journal.

Bankers' Magazine.
Belgravia.
Blackwood's Magazine.
Chambers' Journal.
Church of England Magazine.
Congregationalist.
Contemporary Review.
Continental Railway Guide.
Cornhill Magazine.
Cope's Tobacco Plant.
Daheim.
Die Gartenlaube.
Dietetic Reformer.
Dublin University Magazine.
Financial Reformer.
Florist and Pomologist.
Food Journal.
Fortnightly Review.
Fraser's Magazine.
Gazette des Beaux Arts.
Geological Magazine.
Gentleman's Magazine.
Good Words.
Homœopathic World.
House Furnisher.
Journal of Horticulture
Leisure Hour.
London Society.
Macmillan's Magazine.
Musical Times.
Nautical Magazine.
Our Own Fireside.
Once a Week.

REVIEWS, &c.—CONTINUED.

Portfolio.
 Quiver.
 Railway Guide.
 Revue Archéologique.
 Revue Britannique.
 Revue Chrétienne.
 St. James's Magazine.
 St. Paul's Magazine.
 Shorthand Magazine.
 Sunday at Home.
 Truthseeker.
 United Service Journal.
 Zoologist.

FORTNIGHTLY.

Journal of Gaslighting, &c.
 Revue des Deux Mondes.
 Unsere Zeit.

WEEKLY.

Athenæum.
 Architect.
 Builder.
 Builders' Weekly Reporter.
 Building News.
 Broad Arrow.
 Chemical News.
 Civilian.

Comptes Rendus.
 Economist.
 Engineer.
 Engineering.
 English Mechanic.
 Era.
 Fun (2 copies).
 Graphic (2 copies).
 Iron.
 Journal of the Society of Arts.
 Judy (2 copies).
 Lancet.
 Land and Water.
 London News (2 copies).
 Nature.
 Naval and Military Gazette.
 Notes and Queries.
 Orchestra.
 Porcupine.
 Public Opinion.
 Punch (2 copies).
 Saturday Review.
 Spectator (2 copies).
 Volunteer Service Gazette.
 Vanity Fair.
 Weekly Notes.

LENDING LIBRARIES.

The statistics of the North and South Lending Branches show little change during the last two or three years. It has been found that four thousand readers at each library are as many as can satisfactorily be attended to, and that any increase to this number appears to have the effect of crowding out the older readers. Prose fiction still largely predominates in the issues, but in this respect Liverpool differs little from other large towns possessing free libraries.

Donations have been received from the following authors:—Mr. Samuel Huggins, Mr. J. S. Maccrom, and Mr. William Woodall.

The following are the Statistics for the past year:—

	North.	South.	TOTAL.
Volumes lent.....	208,546	213,985	422,531
New Tickets issued.....	2,249	2,310	4,559
Tickets renewed.....	2,110	2,154	4,264
Tickets cancelled.....	2,308	2,365	4,673
Total Readers on Books.....	4,359	4,464	8,823
Books lost or injured and paid for.....	32	39	71
Books lost.....	7	5	12
Volumes worn out—replaced.....	280	505	785
Volumes worn out—withdrawn.....	178	262	440
New Volumes added.....	417	432	849
Total number of Volumes in the Libraries.....	20,031	20,799	40,830

The volumes lent have been classified as follows :—

Theology and Metaphysics	3,639	3,572	7,211
Natural Philosophy, Mathematics, &c.	2,445	2,175	4,620
Natural History	1,566	1,907	3,473
Science and the Arts	5,923	4,460	*10,383
History and Biography	9,780	9,059	18,839
Topography and Antiquities	927	1,094	2,021
Voyages and Travels	5,447	5,547	10,994
Miscellaneous Literature, being collected Works, Essays, } Magazines, &c.	16,072	19,710	35,782
Jurisprudence, Law, and Politics	319	228	547
Commerce, Political Economy, &c.	637	492	1,129
Education, Logic, Language, &c.	2,019	1,810	3,829
Poetry and the Drama.	2,141	1,659	3,800
Prose Fiction	157,246	161,896	319,142
Latin and Greek Classics and Translations	182	284	466
Embossed Books for the Blind	203	92	295
TOTAL.....	208,546	213,985	422,531

* This includes 3,892 Volumes of Vocal and Instrumental Music.

MUSEUM.

STATISTICS.

	1871-2.	1872-3.	Increase.
Total Day Visitors	420,220	428,501	8,281
Weekly Average	8,081	8,240	159
Daily Average	1,972	2,012	40

DONATIONS.

A West African Crocodile ; presented by Mr. Robert Alexander.

A Lion, a Tiger, an Emeu, four Harlequin Boas, three Armadillos, and a Kangaroo ; presented by Mrs. Armitage (of Manders' Menagerie).

Native Models of an Altar of Human Sacrifice, and of a Compass, both from Mexico ; presented by Mr. Joseph Armstrong.

Two Golden Plovers, a Sturgeon from Morecambe Bay, and a living Chameleon ; presented by Mr. William Bennett, J.P.

A small West African Python ; presented by Mr. John Blackhurst.

Specimens of rare British Sponges ; presented by Dr. Bowerbank, F.R.S.

A living Blind Cray Fish (*Cambarus pellucidus*), from the Mammoth Caves, Kentucky ; presented by Mr. J. Frederick Bowman.

Seventeen Tokens and Coins ; presented by Mr. William de Clifford Bromehead.

Five pieces of Delft Ware ; presented by Mr. Gustav Busch.

A "Tomagaff" Snake from Belize River, and two Shells from Swan Island; collected and presented by Mr. James T. Callender.

A West African Crocodile, two large Monitor Lizards, and a Purple Gallinule from Africa; presented by Mrs. Carpenter.

Small Roman Coin-Moulds, small Tiles, and fragments of Alabaster, all from Egypt; presented by Rev. Greville I. Chester.

Three dozen Sea Anemones (*Actinia mesembryanthemum*), from Llandrilloyn-Rhos, near Conway; presented by Mrs. Comer.

A living specimen of a Cuttle Fish (*Eledone cirrhosus*), from Colwyn Bay; presented by Mr. George Comer.

Plates of Baleen of *Balanoptera rostrata*; presented by Dr. Millen Coughtrey.

A living Coleopterous Insect (*Deloyola crux?*), brought from Elephanta, Bombay; presented by Mr. F. F. Cronin.

Specimens of Eggs and Young of the Harlequin Boa; presented by Mr. William Cross.

Two living Chameleons, and three living Tortoises (*Testudo græca?*), from Alexandria; presented by Mr. John Daniels.

Four living Horned Frogs (*Phrynosoma cornubica*), from Galveston, Texas; presented by Mr. J. S. De Wolf, jun.

A large Spiny Lobster or Crawfish (*Palinurus quadricornis*); presented by Mr. John Duncan.

Twelve young living Grey Mullet, from Anglesea; presented by Mr. E. Edwards.

A Dolphin (*Coryphæna hippurus*), from the North Atlantic; presented by Captain Robert Ellis, s.s. "Alice."

Two Native Dresses, from West Africa; presented by Mr. Richard Evans.

Seven specimens of Amber containing Insects, &c.; presented by Mr. Franz Faltn.

Two specimens of the Small Pearl-bordered Fritillary Butterfly (*Argynnis Selene*); collected and presented by Miss Edith Fletcher.

- A small specimen of Sulphur and Arsenic, from Solfatara, near Naples; presented by Miss E. F. Fletcher.

Two specimens of Venus's Flower Basket (*Euplectella aspergillum*), from Cebu, Philippine Islands; presented by Mr. C. P. Fowler.

Two young living Alligators, from New Orleans; presented by Mr. William Fraser.

A large living Bird-catching Spider (*Mygale*), from Hayti; presented by Mr. John Galley.

Specimens of Pearls from the common Mussel (*Mytilus*), in their natural condition and improved; presented by Mr. Robert Garner, F.L.S.

A Horned Screamer (*Palamedea cornuta*), and a Yellow-footed Egret, from Demerara; presented by Mr. Alexander Garnett.

A Lamp, Christian period, found at Aceldama, Jerusalem; a Necklace (formed of discs of *Gorgonia*?); specimens of *Turbo petholatus*, with operculum, from the Fiji Islands; and six other species of Shells from the Mediterranean; presented by Mr. C. T. Gatty.

A living Rose Beetle (*Cetonia ænea*), from Holland; presented by Mr. John Good.

An Old Liverpool Racing List for July, 1777; presented by Mr. Henry Green.

Two Locusts (*Locusta viridissima*); presented by Mr. Greening.

Two living Freshwater Fish (*Lebiasina bimaculata*) from Peru; presented by Captain Hammill, s.s. "Lusitania."

Two variegated Eels from Cabenda, and three Birds from West Africa; presented by Captain Hannah, s.s. "Angola."

A Kokree or Dagger, found in the Ruins of a Mosque after the Fall of Delhi; presented by Mr. M. Hart.

Two Lizards from West Africa; presented by Mr. Charles Heerey.

A living Freshwater Shell (*Neritina intermedia*), from the Falls of the Great Scarcies River, Sierra Leone; presented by H. E. Governor Pope Hennessey,

A Small-spotted Dog Fish (*Scyllium canicula*); presented by Dr. J. Sibley Hicks.

Specimens of Sponges from the Isle of Man; specimens of Ascidians (*Botryllus polycyclus* and *Botrylloides albicans*) from Anglesea; and a Young Grey Seal (*Halichærus grypus*) from the Caves of Achil, County Mayo; presented by Mr. Thomas Higgin.

Four Bottles of Marine Specimens, from the South-West Coast of Ireland collected and presented by Rev. H. H. Higgins.

Four specimens of a Boring Mollusc (*Lithodomus*) in Limestone, from the Mediterranean; a species of Electric Ray (*Torpedo narce*) from Valencia; three Fish; one Crab; three specimens of two species of Sea Pen (*Veretillum*) dredged in 9 fathoms, Gibraltar Bay; a collection of Marine specimens

(Mollusca, Crustacea, Anemones, Fish, &c.) from the Bay of Gibraltar, Coast of Portugal and Alexandria; a Pennatulid (*Pteroeides*) and other specimens from the Mediterranean; presented by Captain Horsfall, s.s. "Canopus," Associate of the Literary and Philosophical Society of Liverpool.

Specimens of Pre-Historic Peruvian Pottery from a Cemetery between Ancon and Chancy, 30 miles north of Lima, and seven Skulls; presented by Consul Hutchinson.

Twenty-five samples of Deep Sea Soundings and Specimens from the Cruises of H.M.S. "Porcupine," 1869-70; presented by Capt. George H. Inskip.

A valuable and important collection of Fossils, consisting of Carboniferous Corals from Bristol, from the Mendip Hills, and from the Mountain Limestone of South Wales, and other specimens, mostly cut and polished; a collection of Devonian Corals; and a series of Serpentine and Oolitic Rocks cut and polished; presented by Mr. Swinfen Jordan.

A living Tortoise (*Emys tecta*) from the East Indies; Marine Specimens dredged off the West Coast of Africa; three Molluscs containing the animals (viz., two *Pecten Australis* encrusted with sponge, and one *Haliotis excavata*), from Port Adelaide; and a Doctor Fish from West Africa; presented by Mr. R. J. Keen.

A large Jug of Staffordshire Ware ornamented with rustic figures and dog in colours, probably modelled by Voyez and manufactured by Enoch Wood; presented by Mr. H. E. Kidson.

A Chowrie, or bushy white tail of Yak; a fine adult male and a young male in change of the Tragopan or Simla Horned-Pheasant (*Cerionis melanocephala*); a Pucras Pheasant; a Cheer Pheasant; three Lerwa Partridges; and nine other Bird Skins from India; presented by Mr. F. H. Kirby, C.E.

Specimens of Silver Ore, Copper Ore, &c., from Utah; presented by Mr. Mark Lindsay.

A Case of Specimens illustrating the Metamorphoses, Products, and Morbid States of the Common Silkworm Moth (*Bombyx mori*); presented by the Directors of the Liverpool Institute, per Mr. C. Sharpe, Secretary.

Bones of the fore leg of large South African Giraffe; presented by Mr. Charles Mac Iver.

Seven Plates of Liverpool Ware, a Liverpool Jug (1798); twenty small Dies of Wedgwood and Bentley's Black Basalt; a Fruit Basket of Wedgwood Jasper Ware, and other specimens; presented by Mr. Joseph Mayer, F.S.A., &c.

Two bottles of Specimens from West Africa, including two Cake Urchins, *Marginella*, small Nudibranchs, &c., chiefly from Camaroons; presented by Mr. G. B. Medley.

Two boxes of Insects; presented by Mr. Charles Melly.

Two Stems of a remarkable Giant Sea-Pen, from Burrard Inlet, British Columbia; presented by Messrs. Moody, Dietz, and O. Nelson.

A Slab of Fossil Plants from Newcastle, Australia; presented by Mr. James Nicholson, per Mr. R. J. Keen.

A Spherical Projectile of Wood and Iron; presented by Mr. Edmund S. Norcombe.

Six specimens of Carbonate of Lime, forming pseudomorphs of Corals, &c., from Barbadoes; presented by Dr. J. M. Packer.

An Electric Fish (*Malapterurus beninensis*) from West Africa; presented by Captain Pearce, s.s. "Palm."

The Head of a rare Fish, the Southern Chimera, *Callorhynchus antarcticus*, from Valparaiso; presented by Captain J. A. Perry, Associate of the Literary and Philosophical Society of Liverpool.

A Fossil Vertebra (*Zeuglodon* ?); presented by Mr. Charles Potter.

A young Natterjack; presented by Mr. J. Price.

A small Jug of Liverpool Ware; presented by Mr. P. H. Rathbone.

A Canoe and Paddle from Alenso, River Niger, West Africa; presented by Mr. W. R. Renner.

Two small Bronze Burmese Idols; presented by Miss Richardson.

A piece of Tobasco Mahogany, covered with small Barnacles (*Balanus*), from Mexico; presented by Mr. H. Roberts.

An Andaman Island Bow and two Arrows, brought from Bombay, and presented by Captain T. Y. Rowe, ship "Tiverton."

A Death's Head Moth, taken at Sea, ten miles off Orme's Head; presented by Mr. Wm. Rowlands, No. 7, Pilot Boat.

Living specimens of the Nurse Frog (*Alytes obstetricus*) from Lippe-Detmold; presented by Mr. F. F. Schnitger.

Ear Bone of a Right Whale from Western Australia; presented by Mr. W. H. Scott.

A New Zealand Mud Fish; presented by Mr. Silver.

Specimens of Egyptian Cotton, illustrating the various stages of Spinning, from the Raw Material to the Finished Yarn; presented by Mr. John H. Silverbach.

A fine Crystal of a rare form of Specular Iron ; presented by Mr. Leonard Simpson.

A large Siluroid Fish (*Platystoma*) from the Rio Parana ; specimens of Crustacea, Shells, Zoophytes, &c., from Pernambuco ; presented by Captain Slack, s s. " Laplace."

A rare and remarkable Sponge (*Meyerina claviformis?*), and a specimen of Venus's Flower Basket (*Euplectella aspergillum*) with large specimens of Crustacea enclosed, both from Cebu, Philippine Islands ; presented by Captain J. H. Snook, ship " T. E. Lemon."

A small Slab of Dudley Limestone showing numerous specimens of small Encrinure heads ; presented by Professor Wyville Thomson.

A specimen of Laminated Corundum from North Carolina ; presented by Mr. W. P. Thompson.

A " Bohemian " Pheasant from Hawkstone, Shropshire ; presented by Mr. J. Thurstan.

A Blind Fish and Crustacea from the Indian Cave, Kentucky ; Nest of a Trap Door Spider ; Samples from the Geyser Springs, California ; and other specimens ; presented by Mr. Ernest Tinne.

An Iron Spur and Bit used for driving camels ; presented by Mr. John Tudge.

Two pieces of Old Oak Carving, representing Devotees at a Shrine ; presented by Mr. W. E. Turner.

A Sceptre of a Chief of the Mundurucus Indians, River Amazon ; presented by Baron de Vasconcellos.

A Commodore Snake from Demerara ; presented by Captain Vickers, ship " George Rainy."

Three Cake Urchins (*Mellita testudinata*) from Texas ; presented by Mr. Charles Walton.

Specimens illustrating the production of Salt ; presented by Mr. Thomas Ward.

A Pint Drinking Mug with figures and verse ; presented by Mr. Wilson.

Five samples of Ore from Colorado ; presented by Hon: T. D. Worrall, M.D.

A large living Spider (*Mygale*) found in logwood from Hayti ; presented by Mr. George Wright.

Specimens of Clubs and Spears, and Ethnological Specimens, five bottles of Reptiles, &c. ; presented by Mr. J. Yorke.

Minor donations have been received from Mr. A. Cane, Mr. John Hosker, Mr. T. H. Justice, Mr Kynsey, Rev. T. T. Smith, Mr. Robert Williams, and Mr. George Wright.

PURCHASES.

The principal Purchases have been as follow—

A Guanaco; an Aye-aye; a Seal from the Mersey; a young Saiga Antelope, and ten other Mammals.

A Black Cockatoo; a Crested Tinamou; a Young Penguin, and six other Birds.

Twenty Reptiles, Amphibia, and Fish.

Specimens of Cirripeds, Balau, and Shells, chiefly from the Norris Collection.

Two specimens of Thomson's Encrinite (*Pentacrinus Wyville-Thomsoni*), and eight other Echinoderms.

Twenty Corals and Coralines, four Zoophytes, and sixty Sponges.

Three Disarticulated Skulls of Vertebrates (Lamb, Turtle, and Cod).

Eighteen Fossil Insects; twenty Oolitic Plants; polished sections of Choanites and Hippurites; Tooth of Mastodon, and other Fossils.

A small collection of Pottery from Anatolia and Asia Minor.

Native Dress from the Fiji Islands; and two Heads of Idols from West Africa.

EXCHANGES.

Exchanges of duplicate specimens have been made with Professor Esmark, University of Christiania; the Geneva Museum, per Mr. Charles Melly; Professor F. W. Putnam, Peabody Academy of Sciences, Salem, Massachusetts; Professor James Hall, State Geologist, Albany, New York; and others.

15 JUL 1898







TWENTY-SECOND
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM, AND GALLERY OF ART,
OF THE
BOROUGH OF LIVERPOOL,
FOR THE YEAR 1874.



LIVERPOOL:
HENRY GREENWOOD, PRINTER, 32, CASTLE STREET.

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OFFICERS AND COMMITTEE

FOR THE YEARS 1873-74.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

E. SAMUELSON, DEPUTY-CHAIRMAN.

A. B. WALKER, MAYOR.

T. AVISON, F.S.A.,

P. H. RATHBONE,

C. T. BOWRING,

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J. ARMSTRONG,

B. HALL,

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REV. H. H. HIGGINS,

JOSEPH MAYER, F.S.A.

Chief Librarian.

GEORGE HUDSON,

Sub-Librarian.

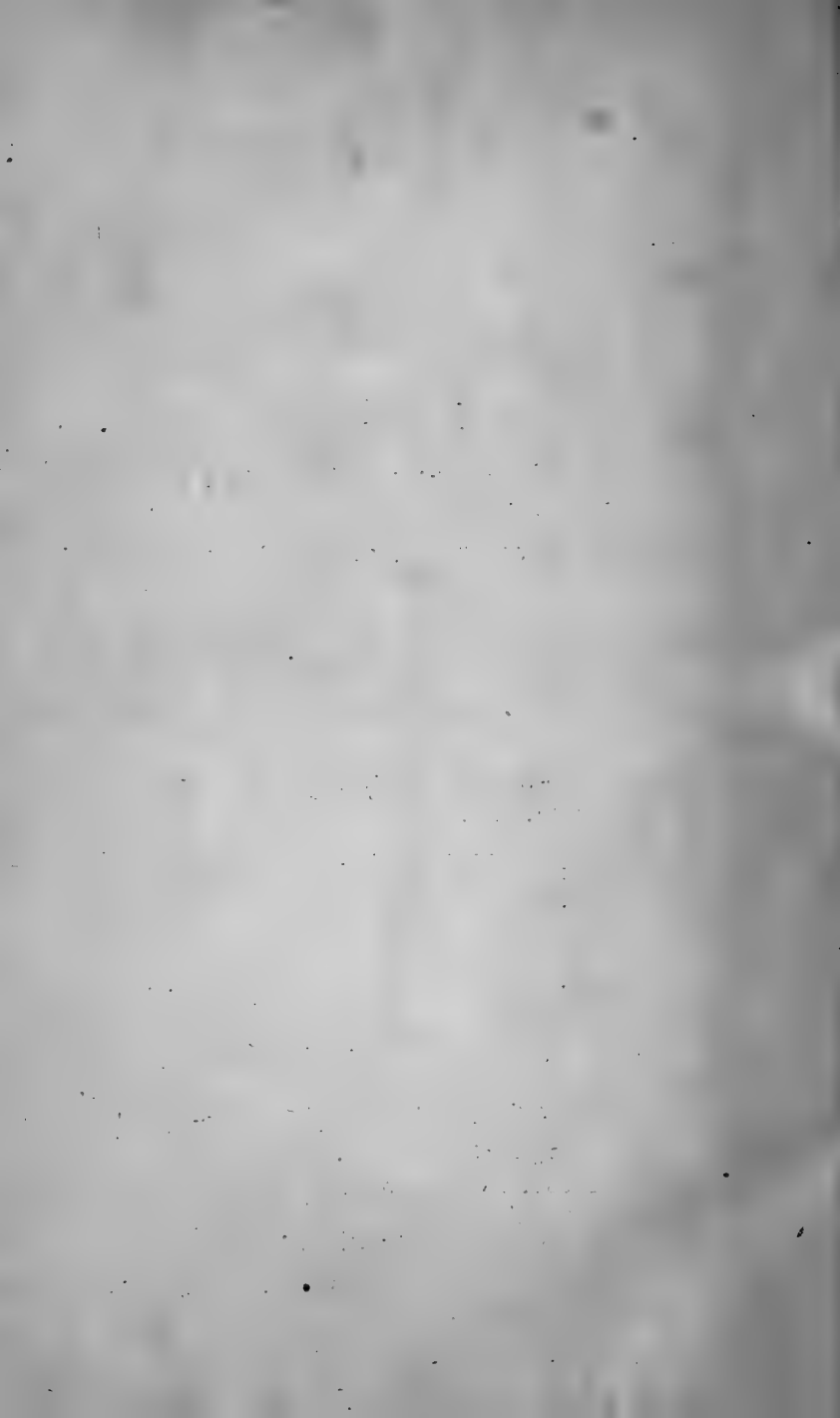
THOMAS FORMBY,

Superintendent of the Lending Libraries.

PETER COWELL,

Curator of the Museum.

THOMAS J. MOORE.



REPORT.

THE Institution, of which the Committee now present the twenty-second annual report, has attained such a degree of usefulness and influence amongst the community of Liverpool as to render any recommendatory notice altogether superfluous. The advantages which it presents are duly appreciated and availed of, and every department is in a state of full and increasing efficiency.

The last year has been on the whole the most successful and gratifying in the history of the Institution.

In last year's report it was announced that Mr. A. B. Walker, at that time Mayor, had undertaken the erection of a building for the Art Department, which the Council, in accepting, had resolved should have the name of the donor attached to it. On the occasion of laying the first stone on the 28th September last, His Royal Highness the Duke of Edinburgh honoured the town with a visit, and performed the ceremony in the presence of many thousands of spectators. The day and its associations will long be remembered in the history both of the Town and of the Institution. The contracts for the erection of the building have been entered into, amounting to about £25,000, and the building is in progress. It is expected to be ready for opening in the summer of 1876.

The position of the present building and that in course of erection presented some difficulties owing to the curved line of the frontage, which necessarily throws the façades of the two buildings into different planes. To harmonise these into a complete group a third building to unite the two and fill up the irregular space between appears highly desirable. This is not more desirable on the score of taste and appearance than a work of neces-

sity to provide accommodation for the increasing wants. The Museum is greatly cramped for want of space. The Mayer collection cannot at present be displayed in the manner which its great value and historical interest imperatively require; and the Reference Library, both in the reading accommodation and the space for proper arrangement of the ever-increasing number of books, demands a wider scope for usefulness. To combine these various purposes the Committee instructed Messrs. Sherlock and Vale, the architects of the new Gallery, to submit plans for a building which should contain a new reading-room and library connecting the two buildings. The present reading-room could then be devoted to the purposes of the Museum, and each branch of the Institution would have its separate entrance, with internal communication. When the plans are complete they will be laid before the Council.

The following are the statistics of the several departments.

ART DEPARTMENT.

The results of the Art Exhibition of this year have been far in advance of those of its predecessors, as will be seen from the following report of the Sub-Committee:—

THE Committee have now the pleasure to report the results of the late Autumn Exhibition of Pictures at the Free Library and Museum.

The Exhibition was opened to the public from Monday, September 7th, to Saturday, December 5th, during the day, and in the evening during the Musical Festival week, at a charge of 1s., and from Monday, October 26th, to Friday, December 4th, at 3d.

The number of admissions by payments at the door amounted to 16,524 in the morning and 19,905 in the evening, making a total of 36,429, besides 795 season tickets, and about 18,000 pupils of educational establishments of all classes and denominations admitted gratuitously.

The number of works exhibited consisted of 509 oil colours, 568 water colours, 43 pieces of sculpture and other works of art, forming a total of 1,120.

Of these, 1,036 were for sale, and 335 were actually sold for sums amounting to £9,484 3s. 0d.,—£205 being expended by the Corporation in works of Art for the permanent Gallery now in the course of erection.

The Committee have much pleasure in drawing attention to the satisfactory results embodied in the foregoing figures. They are again able to point to the large increase in season tickets as evidence of a steady growth in the serious

interest taken in art by a rapidly enlarging circle of the inhabitants. A large and unprecedented increase in the number of art students in the Government Schools is also attributed to the influence of these exhibitions.

The Committee would point to the gratuitous admission of the scholars of the town schools as a most important element in the usefulness of the Exhibitions, as fostering a love of art at a time when habits are being formed; and although some years must elapse before the full effects of this can make themselves felt, yet they do not doubt that the results flowing therefrom will not be among the least important obtained by the Exhibition; and it is also gratifying to observe the growing interest shown by the artizans, as evidenced by their increased attendance in the evenings.

The abiding interest felt by artists generally in the Exhibition was proved by the fact that, although the Committee exerted themselves to hang a larger number of works than they had ever previously done, they were obliged to reject about 700, for which it was impossible to find room.

The quality of the pictures exhibited maintained their previous high level. The number of important pictures painted specially for the Exhibition, a very valuable feature indeed, was also considerably larger than on previous occasions, and the large proportion of these sold showed that purchasers were fully alive to this advantage.

Though in some cases the Committee have been compelled, reluctantly, to arrive at a different opinion to that formed by the artist, as to the merit of his work, and the position upon the walls which it deserved, they have received gratifying assurances that upon the whole the artist world place full reliance on their desire to be just and impartial, and to maintain this confidence they are determined to spare no effort. Their only possible interest, as members of the Corporation, being that the Exhibition should be in every way worthy of the town.

They feel, however, that some artists may not unnaturally have been disappointed in the position assigned to their pictures in comparison with others of not greater merit. In some cases the Committee have been unable to hang works where they would wish, owing to the aggressive nature of the colour of the pictures, which would have seriously injured their neighbours, and the whole tone of the wall. Young artists should be careful that they do not, by the size of their canvas, attempt to monopolise too large a space, especially, as is often the case, when the subject is by no means of sufficient importance to warrant it. An artist also should be very sure of his reputation, or of his powers, before he asks a purchaser to give up the whole of the wall of any moderate sized-room to one picture.

The total amount of sales, considerably the largest reached by this, or, indeed, any provincial Exhibition, is very gratifying. The constant access of fresh purchasers shows that a taste and a demand are being created, which, without these Exhibitions, might not have existed at all. The Committee have been solicitous to maintain the Exhibition as a medium to enable artists to come into actual communication with purchasers, and are very anxious to discourage any pictures being offered for sale which are not the *bonâ fide* property of the artist.

The Committee found, on their visit to London last spring, that an impression seemed to prevail there that an alteration in the management of the Exhibition was probable; and this impression, until removed, appeared to produce a very prejudicial effect among metropolitan artists. It is, therefore, desirable, in order to prevent any possible misconception, to state that no change has been in contemplation by the Committee, and that it is intended to open the next Exhibition to the public the first Monday in September, and to close it the first Saturday in December, 1875.

The Exhibition was closed on December 5th by a *soirée*, to which were invited the Members of the Council, the contributing artists, the purchasers of pictures, and lovers of Art in general. Every department was thrown open, and in the Library-rooms a large assortment of illustrated works was arranged for inspection. The valuable Mather collection of Napoleon miniatures and medals attracted much attention.

The following donations have been presented during the year to this department:—

Five Engravings from Paintings by J. M. W. Turner, R.A. Presented by Messrs. T. Agnew and Sons.

A Mezzo-Tint Copper Plate, engraved by J. M. W. Turner, R.A., of "The Felucca," with the first proof. (Only thirty impressions in all have been taken from the copper. This plate was intended for the *Liber Studiorum*.) Presented by Mr. W. S. Caine.

A collection of 165 small Medallions, representing copies of existing works in various European cabinets. Presented by Mr. J. L. Catrall, per Mr. James Samuelson.

A chromo-lithograph of Rivington Pike (from the original painting by F. W. Hulme in the possession of the Corporation). Presented by Mr. Percy L. Isaac.

A large oil painting, "The Arrest of Charlotte Corday after the Assassination of Marat." Presented by the Executors of the late Mr. James Mander, per Mr. J. Henry Allender.

Received from Mr. Joseph Mayer, F.S.A., the marble bust of Napoleon I., with pedestal, forming part of the Mather bequest.

A large oil painting, "Bambro' Castle," by James Webb. Presented by Mr. C. Chaloner Smith.

LECTURES.

From a mere tentative experiment these lectures have attained a remarkable degree of popularity, and are attended by such numbers as frequently to overcrowd the Lecture Hall.

The lectures delivered during the last season have been as follows:—

Eight Lectures on Art, by Mr. W. J. Bishop, Drawing Master of the Liverpool College, and Head Master of the Liverpool North District School of Art.

Three Lectures on Natural History, by Mr. T. J. Moore, Curator of the Museum.

Six Lectures on the Chemistry of Salt, and of the Manufactures depending on it. Illustrated with specimens, experiments, diagrams, &c., by Mr. Edward Davies, F.C.S., &c.

Three Lectures on Geology, by Mr. G. H. Morton, F.G.S., F.R.G.S.I.

Two Lectures on Mineralogy and Mining, by Mr. F. P. Marrat, M.L.G.S., Museum Scientific Staff.

Six Lectures on Navigation and Astronomy, by Mr. J. T. Towson, F.R.G.S.

Two Lectures on Art and Antiquities, and one on Town Window Gardens, by Mr. Charles T. Gatty, Assistant Curator of the Mayer Museum.

Three Lectures on the Constitutional History of England, illustrated with historical maps, by Mr. James Birchall, formerly Government Lecturer in History, Normal College, York.

Four Readings, by Mrs. H. J. Gorst.

In addition to the list above mentioned, given at the expense of the Committee, a course of twenty-three lectures of instruction in the French language have been given by M. Gaillard, the Professor of French at the Royal Institution. These have been entirely gratuitous and remarkably successful, the numbers in attendance having been very large.

REFERENCE LIBRARY.

The number of volumes issued during the year has been 465,397, against 489,270 in the previous year, being a decrease of 23,873 from last year.

This decrease is owing not to any actual falling off in the Books issued, but to the closing of the Library for painting, &c., from May 28th to July 6th being thirty working days, which at the average of the year, 1,846 volumes would make up a total of 520,777, showing an increase of 31,507 volumes over the previous year's issues.

The following is a classified list of the books issued :—

Classification.	Volumes.	Daily Average about
Theology, Morals, and Metaphysics	16,138	64
Natural Philosophy, Astronomy, Chemistry, &c.	15,675	62
Natural History, Botany, Mineralogy, &c.	9,622	38
Science and the Arts, Architecture, Painting, Music, &c.	38,352	152
History and Biography	23,650	94
Topography and Antiquities	9,457	38
Geography, Voyages, and Travels	16,730	66
Miscellaneous Literature	151,383	601
Jurisprudence, Law, and Politics	3,623	14
Commerce, Political Economy, and Social Statistics	4,236	17
Education, Logic, Language, &c.	9,329	37
Poetry and Dramatic Literature	14,309	57
Works of Imagination	125,084	496
Classical Literature	2,568	10
Heraldry, Encyclopædias, and Works of Reference	25,241	100
	465,397	1,846

During the year 2,166 volumes of books have been added to the Library, viz., 1,903 by purchase, 165 from the Commissioners of Patents, and 98 by Donation, under the following heads ;—

Classifications.	1873.	Additions.	1874.
Theology, Morals, and Metaphysics	4,512	92	4,604
Natural Philosophy, Astronomy, &c.	1,368	49	1,417
Natural History, Botany, Mineralogy, &c.	3,283	138	3,421
Science and the Arts, Architecture	6,349	337	6,686
History and Biography	7,921	223	8,144
Topography and Antiquities	2,565	214	2,779
Geography, Voyages, and Travels	3,483	99	3,582
Miscellaneous Literature	10,947	459	11,406
Jurisprudence, Law, and Politics	4,729	123	4,852
Commerce and Social Statistics	545	24	569
Education, Logic, and Language	931	37	968
Poetry and Dramatic Literature	2,505	188	2,693
Works of Imagination	5,456	68	5,524
Classical Literature	371	8	379
Heraldry, Encyclopædias, and Wooks of Reference	1,863	107	1,970
	56,828	2,166	58,994

LIST OF REVIEWS AND PERIODICALS TAKEN IN THE REFERENCE
LIBRARY :—

QUARTERLY.

Annales des Sciences Naturelles.
Archæological Journal.
Archæologia Cambrensis
British Quarterly Review.
Dublin Review.
Edinburgh Review.
German Magazine.
Ibis.
Journal of Anatomy.
Journal of the Royal Agricultural Society.
Journal of the Society of Antiquaries.
Journal für Ornithologie
Journal of the Statistical Society.
Life Boat.
London Quarterly Review.
Navy List.
Naval Science.
New Quarterly Magazine.
North American Review.
Popular Science Review.
Quarterly Journal of Geological Society.
Quarterly Journal of Science.
Quarterly Review.
Revue Celtique.
Revue et Magasin de Zoologie.
Theological Review.
Westminster Review.
Y Traethodydd
Zeitschrift für Deutsche Philologie

MONTHLY.

Academy.
All the Year Round.
Annals and Magazine of Natural History
Army List.
Art Journal.
Bankers' Magazine.
Belgravia.
Blackwood's Magazine.
Chambers' Journal.
Church of England Magazine.
Congregationalist.
Contemporary Review.
Continental Railway Guide.
Cope's Tobacco Plant.
Cornhill Magazine.
Daheim.
Die Gartenlaube.
Dietetic Reformer.
Dublin University Magazine.
Financial Reformer.
Florist and Pomologist.
Fortnightly Review.
Fraser's Magazine.
Gazette des Beaux Arts.
Geological Magazine.
Gentleman's Magazine.
Good Words.
Homeopathic World.
Journal of the Chemical Society.
Journal of Horticulture.
Leisure Hour.
London Society.
Macmillan's Magazine

Musical Times.
Nautical Magazine.
Our Own Fireside.
Once a Week.
Portfolio.
Quiver.
Railway Guide.
Revue Archéologique.
Revue Britannique.
Revue Chrétienne.
Saturday Journal.
Shipwrecked Mariner.
St. James's Magazine.
Shorthand Magazine.
Sunday at Home.
Tinsley's Magazine.
Truthseeker.
United Service Journal.
Zoologist.

FORTNIGHTLY.

Gazette des Architectes.
Revue des Deux Mondes.
Unsere Zeit.

WEEKLY.

American Manufacturer.
Athenæum.
Architect.
British Architect.
Builder.
Builders' Weekly Reporter.
Building News.
Broad Arrow.
Chemical News.
Civilian.
Comptes Rendus.
Economist.
Engineer.
Engineering.
Engineering and Building News.
English Mechanic.
Era.
Examiner.
Fun (2 copies).
Graphic (2 copies).
Iron.
Journal of Gaslighting, &c.
Journal of the Society of Arts.
Judy (2 copies).
Lancet.
Land and Water.
London News (2 copies).
Nature.
Naval and Military Gazette.
Notes and Queries.
Orchestra.
Pharmaceutical Journal.
Porcupine.
Public Opinion.
Punch (2 copies).
Saturday Review.
Spectator (2 copies).
Volunteer Service Gazette.
Vanity Fair.
Weekly Notes.

THE LENDING LIBRARIES.

The Lending Branches maintain their full complement of readers, though the issues show a falling-off over last year of 11,168 vols. As there is a marked improvement in the class of literature lent, no doubt the decrease is due to the books being kept their full time for more careful and studious reading. The whole of the above decrease, with 1,774 vols. additional, making 12,942, comes under the head of fiction. Miscellaneous Literature (principally Magazines) shows a decrease of 2,902 vols.; History and Biography is 547 vols. less; Politics, 107; and Political Economy, 81. On the other hand, Theology shows an increase of 1,165 vols.; Natural Philosophy and Mathematics, 642; Natural History, 538; Arts and Sciences, 1,570; of which 333 vols. are Music; Topography, 368; Travels, 244; Education and Languages, 587; Poetry, 284; Classics, 24; and Books for the Blind, 9.

The large number of tickets cancelled results, in a great measure, through the neglect of readers to renew them at the proper time (every twelve months from the date of issue); thus they become void. In some respects this is advantageous both to the Library and guarantors, as by those who rejoin new vouchers are supplied to the Library, and guarantors have the option of declining being again responsible should they think fit. Of the 75 Books lost 11 were replaced by guarantors, and the remainder by the borrowers themselves. The 14 wholly lost were found missing at stock-taking, but could not be traced. The Books worn out and replaced consist almost wholly of works of fiction, among which the names of Dickens, Scott, Lytton, Lever, Marryat, Cooper, Mayne Reid, Mrs. Wood, Braddon, are the most conspicuous. The cancelled portion consists principally of Magazines which are not considered necessary to replace. In addition, however, to these 777 vols. worn out and withdrawn, there has been at the South Library a further withdrawal of 650 duplicate Magazines now no longer in demand, which, after being properly stamped, were presented to the following charitable institutions, viz. :—Royal Infirmary, 200 vols.; Northern Hospital, 150; Royal Southern Hospital, 150; Convalescent Institution, Woolton, 100; Newsboys' Home, 50. They were in every case very thankfully accepted for the patients, and will, no doubt, prove useful in lightening many an otherwise weary hour. By deducting the volumes withdrawn from the new works added it will be seen that the net increase—383 vols.—is very moderate, and this has been the case for some years past; but as there is a constant stream of new books flowing in, the Libraries are maintained in numbers, usefulness, and popularity.

The following are the Statistics:—

	North.	South.	TOTAL.
Volumes lent	211,673	199,690	411,363
New Tickets issued	2,268	2,262	4,530
Tickets renewed	2,450	2,484	4,934
Tickets cancelled	2,334	2,307	4,641
Total readers on the books	4,718	4,746	9,464
Books lost or injured and paid for	40	35	75
Books lost	7	7	14
Volumes worn out—replaced	466	516	982
Volumes worn out—withdrawn	389	388	777
New volumes added	583	577	1,160
Total number of volumes in the Libraries	20,225	*20,388	40,563

* Less 650 duplicate Magazines, presented to Hospitals, &c.

Table showing the classification of Books lent :—

Theology, Moral Philosophy, &c.	4,383	3,993	8,376
Natural Philosophy and Mathematics	2,833	2,429	5,262
Natural History	1,812	2,199	4,011
Science and the Arts	6,681	5,272	*11,953
History and Biography	10,301	7,991	18,292
Topography and Antiquities	1,107	1,282	2,389
Voyages and Travels	5,532	5,706	11,238
Miscellaneous Literature—being collected Works, Essays, } Magazines, &c.	16,152	16,728	32,880
Jurisprudence, Politics, &c.	275	191	466
Commerce and Political Economy	664	358	1,022
Education, Languages, Logic, &c.	2,289	2,127	4,416
Poetry and the Drama	1,981	2,073	4,054
Prose Fiction	157,157	149,043	306,200
Latin and Greek Classics	274	216	490
Books for the Blind	232	72	304
TOTAL	211,673	199,690	411,363

* This includes 4,225 vols. of Vocal and Instrumental Music.

MUSEUM.

STATISTICS.

	1872-3.	1873-4.	Decrease.
Total Day Visitors	428,501	413,591	14,910
Weekly Average	8,240	7,953	287
Daily Average	2,012	1,941	71

The entire building was repainted during the Spring and Summer months; and, although the Museum was never entirely closed, but as many of the rooms as possible kept open to the public, the number of visitors was doubtless affected thereby.

DONATIONS.

A fine specimen of Sea Fan (*Gorgonia flabellum*); a specimen of Coralline (*Plexaura porosa*); two Corals; a Basket Fish (*Astrophyton*); five Cake

Urchins (*Clypeaster*); two Starfish (*Ophidiaster*); two Sea Urchins, and three Crabs; all from Port Royal, Jamaica; also a Second Collection of Marine Specimens from Port Royal, consisting of Sponges, Corals, and Corallines, Echinoderms, and Molluscan Spawn; collected and presented by Samuel Archer, Esq., Staff Surgeon-Major.

A small Saw Fish (*Pristis*) from the River Bonny, West Africa; collected and presented by Dr. Arkins, s.s. Ethiopia.

Two young living Terrapins, for the Aquaria; presented by Rev. W. Banister.

A very young Rattlesnake, from Brazil; presented by Mr. H. Beasley.

Specimens of Sponges, collected at Douglas, Isle of Man, and presented by Mr. George Beves, per Mr. T. Higgin.

An extensive collection of Freshwater Shells of the Genus *Unio* (cleaned and mostly named by Anthony); also a collection of Fossil *Terebratulæ* and Tertiary Fossils; presented by Mr. John Bewley.

A fine male specimen of the Margin-tailed Otter (*Pteronura Sandbachii*, Gray), from Demerara, and the Skin and Skeleton of a Manatee (*Manatus Australis*), captured in the Abury Creek, Demerara, specially for the Museum, and presented by Mr. Samuel Booker.

Two living Horned Frogs (*Phrynosoma cornubica*), from Galveston; presented by Mr. John Brotherton.

A Kingfisher shot at Storeton; presented by Mr. Wm. Brown.

A piece of Obsidian; two small Saw Fishes (*Pristis*); a Hammer-Headed and three other small Sharks; a File Fish; a *Rhinobatis*; two *Tetraodons*; one *Ostracion*; one Ray (*Mileobatis*); two Jaws of Rays, and one Jaw of *Mileobatis*, from India; presented by Captain Alexander Browne, Associate of the Literary and Philosophical Society of Liverpool.

A Spur-winged Goose (*Plectropteris Gambensis*) from West Africa; presented by Mrs. Carpenter.

Specimens of *Hydractinia echinata* (encrusting Zoophyte on *Buccinum*), from Budleigh Salterton; presented by Dr. H. J. Carter.

A very large Fish Vertebra; presented by Mr. William Cheshire.

A Sponge from the Red Sea; presented by Captain Chisholm, per Mr. Alfred Higginson.

One hundred and thirty-one specimens of eighty-seven species of British Insects, named and set; presented by Mr. Benjamin Cooke.

A living King Crab (*Limulus*), from New York; presented by Mr. Crane.

Nineteen Eggs of Prairie Hen or Ruffed Grouse, from the United States ; presented by Mr. William Cross.

Two Adult, one Immature, and three Chicks of the Common Tern, and one young Oyster-Catcher, from Walney Island ; collected and presented by Mr. Henry Durnford.

Skull of a large Gavial, and two Skulls of Crocodiles from India ; presented by Mr. C. E. Elliston.

A Lump Fish (*Cyclopterus lumpus*) ; presented for the Aquaria by Captain Fletcher.

One Horned Screamer (*Palamedea cornuta*), and one Yellow-footed Egret, from Demerara ; presented by Mr. Alexander Garnett.

A Common Snake ; presented by Mr. J. H. Gibson.

An Albatross ; presented by Mr. Robert Girvin.

Twenty-one specimens of Fossil Teeth and Bones from the Phosphate Beds of South Carolina ; presented by Mr. William H. Graham, per Mr. Stewart H. Brown.

A File Fish (*Balistes*), two small Geckos and specimens of *Salpæ* ; presented by Captain H. Griffiths, ship "Sir John Mandeville," per Messrs. T. Joynson and Co.

Two Starfishes from Queensland ; presented by Mr. J. Ground.

Three small samples of Gold Quartz, and one of Tin Ore, from New South Wales ; presented by Mr. John Hale.

A large Monitor Lizard from the River Danger, West Africa ; living specimens of three species of Freshwater Fish from Cabenda, near the River Congo, West Africa ; and specimens of Beetles destructive to Cigars ; presented by Captain Hannah, s.s. "Angola."

A specimen of rare Sponge (*Halisarca dujardini*), without fibre and without spicules, from the Isle of Man ; a horny-fibred Sponge ; a fine specimen of Toilet Sponge, with shade and stand, and three other Sponges ; a Ventriculite in Chalk ; one do. in Flint, with polished side ; and four specimens of Polyzoa (mounted for the microscope), from Carnarvon Bay ; presented by Mr. Thomas Higgin.

A South American Monkey, presented by Mrs. Hopkins.

Living specimens of Anemones, Mollusca, Hermit Crabs, and Crustacea, dredged in Gibraltar Bay, and presented for the Aquaria by Captain Horsfall, s.s. "Canopus," Associate of the Literary and Philosophical Society of Liverpool.

Five young Moles, presented by Rev. W. Houghton.

A living Horned Frog (*Phrynosoma cornubica*) from Galveston ; presented by Miss Hughes.

Two Skulls of Snow Bear (*Ursus Isabellinus*) ; Skin and Skull of Indian Pine Marten (*Martes flavigula*) ; flat Skin and Skull of Musk Deer (*Moschus moschiferus*) ; and a Musk Pod from the same, all from Cachmere ; collected and presented by Mr. H. Heywood Jones.

A Trunk Fish from Port Adelaide ; a Flying Squid ; and a small undetermined specimen, probably Echinoderm, from West Africa ; presented by Mr. R. J. Keen.

The Carapace of a Peba (*Tatusia peba*), brought from Monte Video ; presented by Messrs. Lamport and Holt.

A Radiated Monkey (*Macacus radiatus*) ; presented by Mrs. George Lee.

Two Horse Skulls (*Equus*) ; Right Ramus of Ox (*Bos*) ; Left Ramus of Stag (*Cervus elaphus*) ; Right Femur of do. ; Metatarsal of do. ; and five Ribs ; found under trunks of trees in bed of Old Gully, at New North Dock Excavations ; presented by Mr. G. F. Lyster, C.E., Chief Engineer, Mersey Docks and Harbour Board.

A large specimen of the Common Snake, from Huyton Quarry ; presented by Mr. James Mackarell.

A fine specimen of Branched Starfish (*Astrophyton*) or " Basket Fish " of American fishermen, taken clinging to a coralline in 12 fathom water, off Charleston, South Carolina, by Captain Manterola, Commander of the Spanish ship, " Concepcion ;" and presented by him per Mr. Thomas Ibbotson.

A fine specimen of the Cotton Plant, from the State of Georgia, with the pods fully developed ; presented by Captain Thomas Masson, ship " George Hurlbut," per Messrs. Rathbone, Brothers and Co.

An Electric Eel (*Gymnotus*) from Maranham ; presented by Mr. John McFarlane.

Three living Chameleons, from Smyrna ; presented by Mr. W. R. McKaig.

Two Sponges from Ceara, North Brazil, showing a lining membrane of fibrous tissue to some of the internal cavities ; presented by Captain McKinney.

A living Turtle from Maceio, Brazil ; presented by Captain John Metcalfe, s.s. " Belgic."

A living specimen of a large species of Silk Moth (*Saturnia cecropia*), from a Cocoon brought from Melbourne by the " Great Britain," November, 1873, presented by Mr. R. Mitchell.

A Bottle of Gulf Weed, from lat. 7 N., 30 W.; presented by Mr. S. F. Mogg,

Two Stems of Giant Sea-Pen (*Osteocella septentrionalis*, Gray), from Burrard Inlet, British Columbia; presented by Messrs. Moody, Dietz, and O. Nelson.

A Sitka Canoe from Alaska; the Head of a Walrus from do.; a beautifully-mounted specimen of Chain Salpæ; a collection of Marine Specimens; and a large Photograph of Professor Agassiz; presented by Captain J. H. Mortimer, ship "Isaac Webb," Associate of the Literary and Philosophical Society of Liverpool.

A Seal (*Callocephalus vitulina*), taken at Lynn; and a young Otter caught at Leasowe; presented by Mr. J. Naylor.

A young Crocodile and Skin of Lizard, from the river Niger; presented by Mr. Olliver.

A Black Sponge and six other species of Sponge, on one specimen of Coral (*Millepora*), from Port-au-Prince, Hayti; and a collection of Starfishes, and other marine specimens, dredged off the coast of Peru; presented by Captain J. A. Perry, Associate of the Literary and Philosophical Society of Liverpool.

Four living Perch for the Aquaria; presented by Mr. J. H. Pring.

A specimen of *Zamia*, and the Jaws of an *Ichthyosaurus*, from Street, Somersetshire; and a sample of Iserine, from Egremont; presented by Mr. T. Mellard Reade, C.E.

Two small Sponges from the S. E. Pacific, and three Birds from Juan Fernandez; presented by Mr. Edwyn C. Reed, Museo Nacional, Santiago de Chile.

Two Rock specimens of Upper Llandovery Conglomerate, from the Worcestershire Beacon; presented by Dr. Ricketts.

Two Snakes, a Lizard, and a Limbless Lizard, from San Francisco; presented by Mr. Rowlands.

A common Snake from Newtown, Montgomeryshire; presented by Mr. A. Royds.

A large specimen of the Tobacco-pipe Fish (*Fistularia*) from St. Vincent, Cape de Verde; a Coral from the Reef of Pernambuco; seven species of Shells from do.; a large specimen of Rock Agate from Rio Grande, South Brazil; a Millepore Coral from Cape Agostinho; two Eggs of the Rhea, or American Ostrich; and three Moths taken in the Roads of Buenos Ayres; collected and presented by Capt. Slack.

A living King Crab (*Limulus*) from New York; presented by Mr. G. T. Smith.

Specimens of Fish and Fish Skulls; presented by Mr. Henry Smith.

A Snake from Ceara ; presented by Miss Squire.

Remains of Stag, Ox, and Boar, from excavations at Blowick, near Southport ; presented by Mr. E. Thomas.

A young Crocodile from the River Bonny ; presented by Mr. J. W. Thompson.

Ten specimens of six species of Freshwater Fish from the Sette Camma or Ndogo River, West Africa ; and ten Spears from Gaboon ; presented by Mr. R. B. N. Walker, F.R.G.S., Corr. Memb. Lit. and Phil. Soc. of Liverpool.

A very young Tortoise and a Squilla from the Gulf of Mexico ; presented by Mr. John Watt.

A young Alligator from the Mississippi ; presented by Mr. D. B. Wells.

A small collection of Reptiles and Insects (chiefly *Orthoptera*) ; also a specimen of *Callianassa* and a small Rodent from Old Calabar ; collected and presented by Mr. T. H. White.

A specimen of Cassiterite or Tinstone from Carnyorth Mine, St. Just, Cornwall ; presented by Mr. Wm. White.

A specimen of *Mygale* or Birdcatching Spider from Cape Hayti ; presented by Mr. J. W. Windeatt.

Ten specimens of Minerals (Blende, Specular Iron, &c.) from Pennsylvania ; presented by Mr. John H. Winning.

A Longicorn Beetle (*Astinomus adelis*) from Garston ; presented by Dr. J. V. Worthington.

A coloured cast of Skull of Fossil Tooth-billed Bird (*Odontopteryx toliapicus*, Owen) from the London Clay ; presented by Mr. B. M. Wright.

Ten Sea-Anemones (*Actinia mesembryanthemum*) ; presented for the Aquaria by Miss Wrigley.

A Silver Medal, by Wyon, commemorative of the National Exhibition of Industry in the City of Cordova, Argentine Republic, 1871 ; presented by H. E. Governor D. Mariano Balcarcis, Minister Plenipotentiary to Great Britain from the Argentine Republic, per W. Rodger Gilmour, Esq., Argentine Consul, Liverpool.

An earthenware Dish, Willow pattern, impressed " Ferry Bridge 8 " ; An earthenware Plate " Leeds Pottery " ; a ditto " Whitenine " ; and a Cream Coloured ditto, " Sewell and Donkin " ; presented by Mrs. A. Briggs.

Specimens of Pottery, from Cyprus and Greece ; a pair of Slippers (bearing an inscription), from a female mummy found near Bennah, in excavating for

the Railway from Alexandria to Cairo ; presented by Captain Alexander Brown, Associate of the Literary and Philosophical Society of Liverpool.

A Japanese Circular Bronze Mirror ; presented by Mr. J. Pitcairn Campbell.

A modern Sicilian Jar with handle, from Palermo ; two Ivory Hair Pins, found at Rome ; Fragment of Ancient Greek Pottery, from Athens ; ten small circular Tiles of Egyptian Pottery for inlaying ; small broken figure of Horse ; stone Scarabæus ; an Anatolian Saucer ; a carved Amber Head ; two small Egyptian Pottery Tiles ; one Arabic Pipe Head, and other specimens ; collected and presented by Rev. Greville J. Chester.

A Liverpool Willow pattern Dish ; presented by Mr. Joseph Ellisdon.

A Cup and Saucer of German Ware, and a Cup and Saucer of Nantgarw Porcelain ; presented by Mr. A. W. Franks.

A small Jug of Grey German Stoneware ; presented by Mrs. Gass.

A Burmese Palm-leaf Book on Metaphysics ; a Sacred Book of the Buddhists of Burma, in Pali character ; six Books of Instruction in Drawing, from Sunan ; a Chinese Novel ; eighteen Drawings depicting various punishments ; a Shan Book ; two Stone Celts from Yenangyoung, Burmah ; three Stone Celts from Yunan, China ; a Bronze Celt from Gungeria, Central India, and eight other Ethnological Specimens, chiefly from Burmah ; collected and presented by Mr. Robert Gordon, C.E.

A red Earthenware Plate from Peru ; presented by Mr. W. Healing.

A Burmese Idol ; presented by Mr. Timothy B. Hughes.

A specimen of Stone Carving, representing flowers and foliage ; presented by Mr. Benjamin Kent.

A model of a Japanese Trading Junk, from Kobi, near Osaha ; presented by Captain Mackey.

An Urn, hammered out from brass rods by the natives, from the Niger ; presented by Messrs. Oliver and Lee.

An Antique Earthen Sarcophagus (with traces of Greek inscription), found near Karadash, on the Gulf of Scanderoon ; and presented by Captain Pernie, s s. " Ararat."

An Earthenware Plate, with printed birds and painted flowers ; presented by Mr. P. H. Rathbone.

Two Plaster Casts, of small wooden Slabs carved with Hieroglyphics, from Easter Island ; presented by Mr. Edwyn C. Reed.

Cast of Seal of Henry VII, taken from the original, found in Durham ; presented by Mr. J. W. Reid.

An Inscribed Brick, 13 inches square, from Babylon, containing the name of Nebuchadnezzar ; presented per Mr. A. W. Franks.

A Plaster Medallion of William Roscoe ; presented by Mr. Elias Schleich.

Six specimens of Ancient Pottery, or Huachos, found in excavations on the Paramanga Estate, near Horca Hill, Peru ; presented by Mr. George D. F. Stephens.

A Hat, made of light basket-work, from Cebu, Philippine Islands ; presented by Mr. Thomas Stevens.

Three small circular Japanese Bronze Mirrors ; presented by Mr. William Walthew.

A Jar of Peruvian Pottery, from Santa Fé, West Coast of South America ; presented by Mr. Robert Wyte.

PURCHASES.

The principal Purchases have been as follows:—

Three rare Lemurs from Madagascar ; a Chimpanzee ; a young specimen of the Great Ant-eater, and twenty-four other Mammals.

An Owen's Apteryx ; a Six-Shafted Bird of Paradise, and forty-one other Birds.

A fine specimen of the *Ceratodus* from Queensland, Australia, (a recently discovered form of Ganoid Fish previously supposed to have been extinct since the close of the Triassic period,) and twelve other Fish and Reptiles.

Mounted Skeletons of Hoffman's Sloth (showing *five* cervical vertebra) ; large African Hornbill ; one Humming Bird, and eleven other Osteological specimens.

Twenty-five selected *Sphingidæ*, and other Lepidoptera.

Twenty Mounted British Larvæ ; forty other Insects, and twenty-nine Crustacea, Starfishes, &c.

Specimens of *Pholas* Borings, and ninety other specimens and illustrations of Mollusca.

Fifteen Corals and Coralines, and thirty-four Sponges from Mauritius, Madagascar, &c.

An *Ichthyosaurus* from the Lias of Street, Somerset ; the Skull of a Beaver from the Fens, near Topham, Suffolk, and eighteen other Fossils.

A Collection of Volcanic and other Rocks from the Department of the Puy de Dôme.

Living specimens of Norway Lobster (*Nephrops*) ; Sea Mice (*Aphrodita*) ; Masked and other Crabs (*Corystes*, *Gonoplax*, &c.) ; Salamanders, &c., for the Aquaria.

Fifteen Carved Spears, Paddles, &c., from the South Seas; an Esquimaux Coat from Alaska, and a Miniature Model of a Japanese Villa.

An Ancient Greek Tazza from Cumæ; a Jet Statuette of St. James of Compostella, and one of St. James and Our Lord; a small Female Figure in Amber, with Ivory Face; one Spanish-Indian, and three small Japanese Ivories; eight Japanese Mirrors, and seventeen pieces of Old Liverpool Ware.

EXCHANGES.

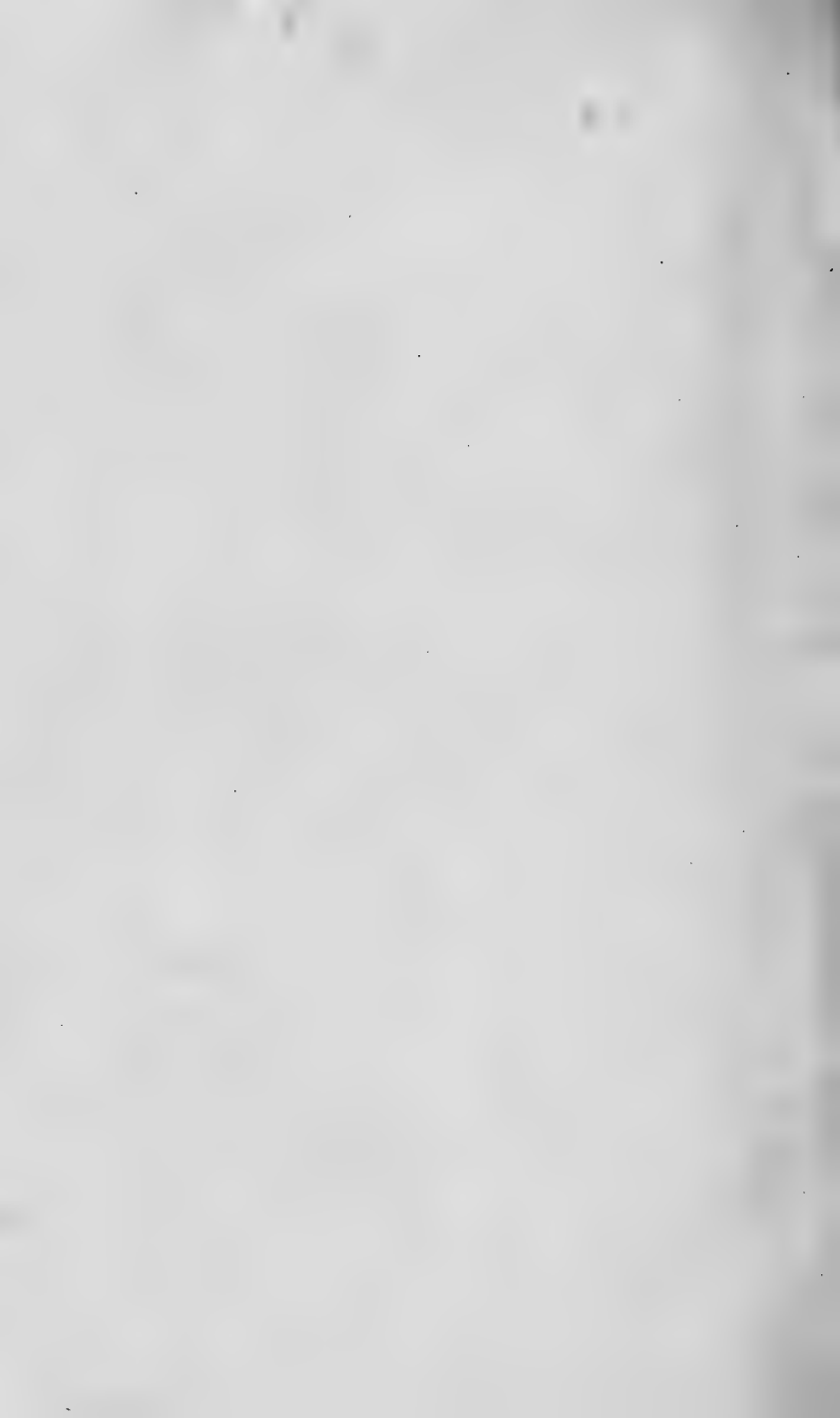
Exchanges of duplicate specimens have been entered into with Captain Hutton, Otago Museum, New Zealand; Mr. E. C. Reed, Museo Nacional, Santiago de Chile; Mr. A. W. Franks, Christy Museum, London; Mr. W. S. M. D'Urban, Albert Memorial Museum, Exeter; Dr. Grierson, Museum, Thornhill, N.B.; Canon Tristram, Dr. Whitfield, Mrs. Gardner, and others.

PRESENTED

15 JUL. 1898





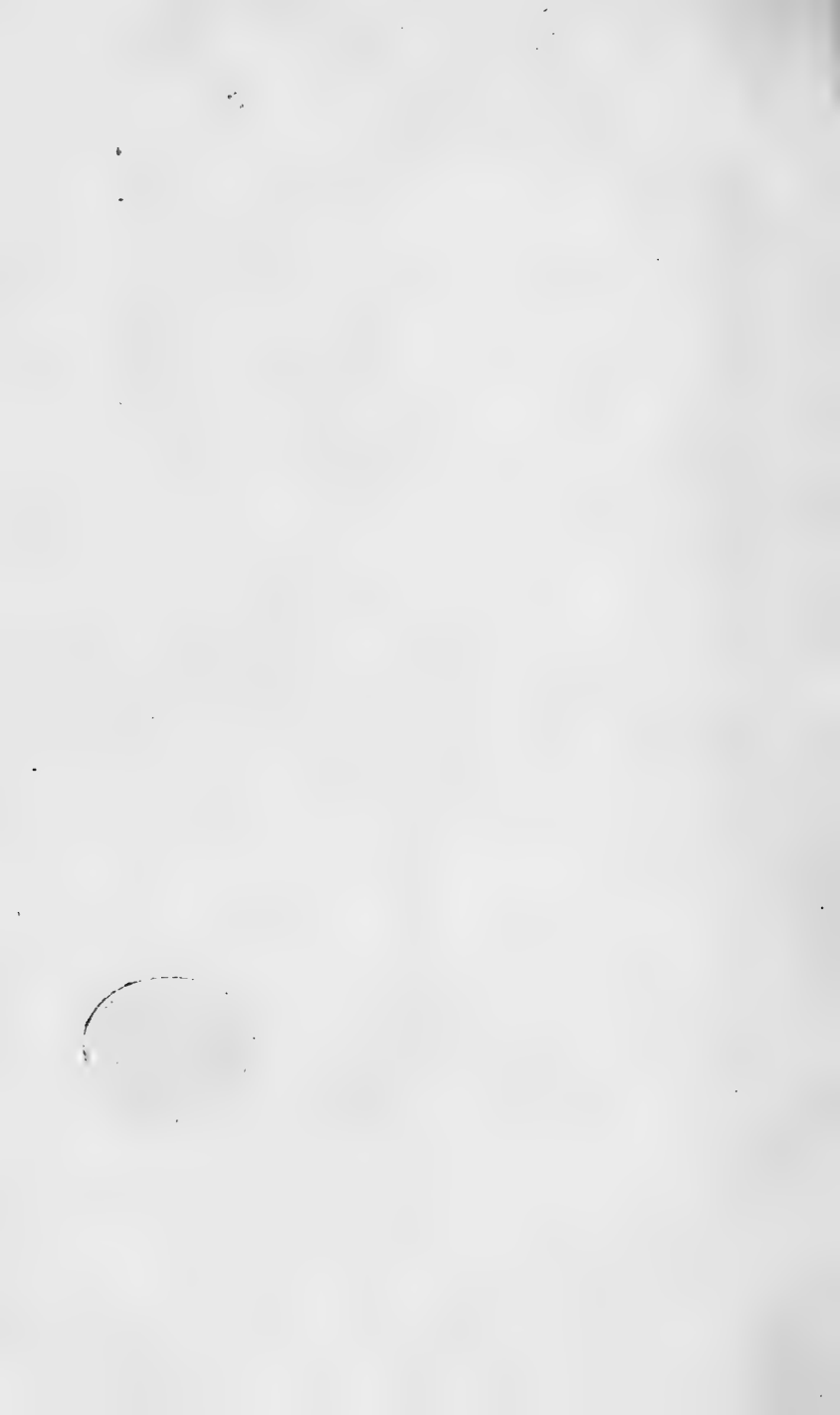


TWENTY-THIRD
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM, AND GALLERY OF ART,
OF THE
BOROUGH OF LIVERPOOL,
FOR THE YEAR 1875.



LIVERPOOL:
HENRY GREENWOOD, PRINTER, 32, CASTLE STREET.

1876.



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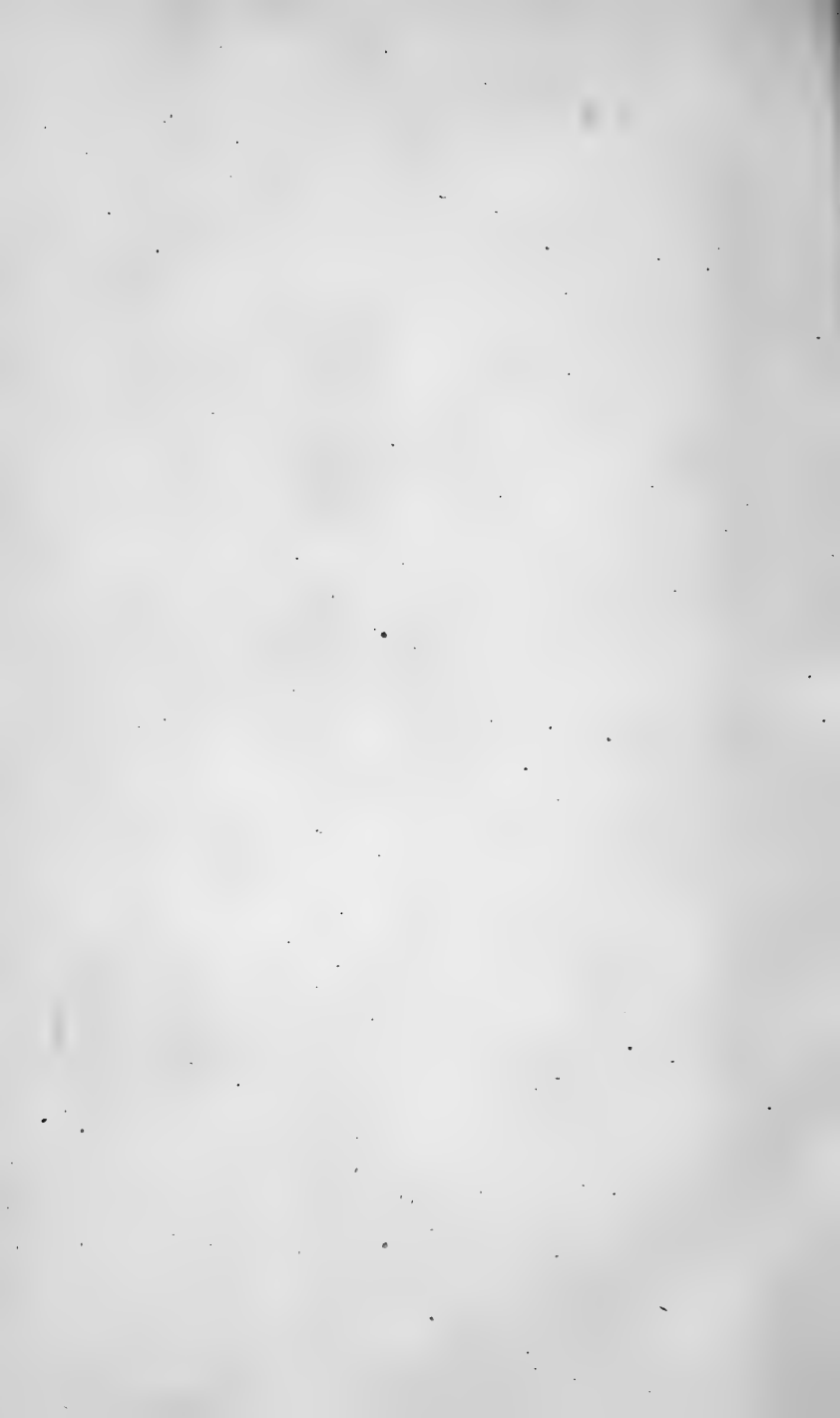
FOR THE YEAR 1875.



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OFFICERS AND COMMITTEE

FOR THE YEARS 1874-75.

Committee.

JAMES A. PICTON, F.S.A., CHAIRMAN.

E. SAMUELSON, DEPUTY-CHAIRMAN.

R. F. STEBLE, MAYOR.

T. AVISON, F.S.A.,

P. H. RATHBONE,

C. T. BOWRING,

T. HOLDER,

J. ARMSTRONG,

B. HALL,

A. B. WALKER,

R. R. MINTON,

C. TURNER, M.P.,

J. HOUGHTON,

STEWART H. BROWN,

REV. H. H. HIGGINS,

JOSEPH MAYER, F.S.A.

Chief Librarian.

PETER COWELL.

Sub-Librarian.

THOMAS FORMBY.

Superintendent of the Lending Libraries.

HENRY GRICE.

Curator of the Museum.

THOMAS J. MOORE.

Assistant Curator, Mayer Collection.

C. T. GATTY.

R E P O R T .

IN presenting their Report for the year 1875, the Committee have pleasure in recording both the increasing prosperity of the institution and the extension of its capabilities for usefulness.

The statistics of the several departments will be found under their respective heads.

The Walker Art Gallery is rapidly approaching completion. The Committee have pleasure in recording a further act of liberality on the part of the founder, who has given a commission to Mr. Warrington Wood, the eminent Sculptor in Rome, for Statues of Michael Angelo and Raphael, representing Sculpture and Painting, to be placed at the base of the pediment; an allegorical Statue of "Liverpool" at the summit; and four bas-reliefs along portions of the front, representing historical incidents in connection with the town. These sculptures will be executed in marble, selected to withstand the effects of weather, and will render the exterior of the building a fit index to the artistical purposes for which it is designed.

The unsightly gap between the existing buildings is now to be filled up in a manner which will materially add to the attractiveness of the institution.

The Council have determined on the erection of a new Reading Room, circular on plan, 100 feet in diameter, connected on each side with the other departments. Tenders have been accepted, and the work will be immediately commenced.

The first stone was laid on the 2nd of December by the Chairman of the Committee, whose name, by a resolution of the Council, has been attached to the building.

During the preparation of the designs it occurred to the Committee that, by a very moderate additional outlay, provision might be made for an Aquarium on a scale worthy of the town. This plan has been sanctioned, and is embodied in the plans now about to be carried out.

The group of buildings when completed will represent Science, Art, and Literature in a manner unsurpassed by any provincial town in the kingdom, and will, it is believed, not only confer great advantages on the inhabitants, but prove very attractive to strangers and visitors.

The Committee have to announce that the success of the recent Autumn Art Exhibition has considerably exceeded that of all the preceding ones.

The following are the statistics as furnished by the Sub-Committee of the Exhibition :—

Pictures Exhibited	1,136
Pictures Sold, amounting to	£12,300 12 4
Number of Visitors	41,584
Season Tickets	1,099
Amount received, exclusive of sales.....	£1,774 17 0

In connection with the Museum a very liberal offer has recently been made by Reginald Cholmondeley, Esq., of Conover Hall, near Shrewsbury, who has chartered a large steam yacht for the purpose of deep sea dredging and collecting in the West Indies. Mr. Cholmondeley offered a free passage to any deputation the Committee might send, with a due proportion of the collections made. The offer has been accepted, and the Rev. H. H. Higgins will go as the representative of the Committee, with two assistants from the Museum. It is to be hoped that this liberal offer will result in advantages to the parties concerned and to natural science in general.

The Reference Library has sustained a severe loss during the year by the decease of Mr. George Hudson, the Chief Librarian. He had been connected with the Library almost from its commencement, and fulfilled his duties with an earnestness and diligence above all praise. It is to be feared that his over-anxiety and refusal to take necessary relaxation contributed seriously towards the undermining of his health. Mr. P. Cowell, late Superintendent of the Lending Libraries, has been appointed his successor.

Mr. Howarth, assistant in the Museum, has been appointed Curator of the Public Museum in Sheffield, being another instance of the advantage which the training in this institution offers to young men wishing to devote themselves to natural science.

REFERENCE LIBRARY.

The following table shows the issues for the year :—

Classification.	Volumes Issued.	Daily Average about
Theology, Morals, and Metaphysics	19,205	69
Natural Philosophy, Astronomy, Chemistry, &c....	16,624	60
Natural History, Botany, Mineralogy, &c.	10,830	39
Science and the Arts, Architecture, Painting, &c.	41,362	149
History and Biography.....	27,181	98
Topography and Antiquities	9,132	33
Geography, Voyages, and Travels	17,625	63
Miscellaneous Literature	171,299	615
Jurisprudence, Law and Politics	4,002	14
Commerce, Political Economy, and Social Statistics	5,078	18
Education, Logic, Language, &c.	9,432	34
Poetry and Dramatic Literature	15,504	56
Works of Imagination	139,236	500
Classical Literature	2,779	8
Heraldry, Encyclopædias, and Works of Reference	28,104	101
	<hr/> 517,393	<hr/> 1,857

The additions for the year number 2,507 volumes, of which 205 are volumes of Patents and 84 are volumes of Parliamentary Papers :—

	Volumes Added during the Year	Total Number of Volumes in the Library
Theology, Morals, and Metaphysics.....	139	4,765
Natural Philosophy, Astronomy, &c.	37	1,398
Natural History, Botany, Mineralogy, &c.,.....	257	3,396
Science and the Arts, Architecture, &c.	460	7,157
History and Biography	272	8,316
Topography and Antiquities	183	2,822
Geography, Voyages, and Travels	106	3,613
Miscellaneous Literature	535	12,233
Jurisprudence, Law, and Politics	113	5,233
Commerce, Political Economy, and Social Statistics.....	32	620
Education, Logic, and Language	46	981
Poetry, and Dramatic Literature	105	2,706
Works of Imagination	35	5,228
Classical Literature	58	413
Heraldry, Encyclopædias, and Works of Reference.....	129	1,927
	<hr/>	<hr/>
	2,507	60,808

It may be interesting to give in a synoptical form the Reviews and other Periodicals taken :—

LIST OF REVIEWS AND PERIODICALS TAKEN IN THE REFERENCE
LIBRARY:—

QUARTERLY.

Annales des Sciences Naturelles.
Archæological Journal.
Archæologia Cambrensis.
British Quarterly Review.
Dublin Review.
Edinburgh Review.
German Magazine.
Ibis.
Journal of Anatomy.
Journal of Microscopical Science.
Journal of the Royal Agricultural Society
Journal of the Society of Antiquaries.
Journal für Ornithologie.
Journal of the Statistical Society.
Life Boat.
London Quarterly Review.
Navy List.
Naval Science.
New Quarterly Magazine.
North American Review.
Popular Science Review.
Quarterly Journal of Geological Society.
Quarterly Journal of Science.
Quarterly Review.
Revue Celtique.
Revue et Magasin de Zoologie.
Stray Feathers.
Theological Review.
Westminster Review.
Y Traethodydd.
Zeitschrift für Deutsche Philologie.

MONTHLY.

All the Year Round.
Annals and Magazine of Natural History
Army List.
Art Journal.
Atlantic Monthly.
Bankers' Magazine.
Belgravia.
Blackwood's Magazine.*
Cassell's Magazine.
Chambers's Journal.
Church of England Magazine.
Congregationalist.
Contemporary Review.
Continental Railway Guide.
Cope's Tobacco Plant.
Cornhill Magazine.
Daheim.
Die Gartenlaube.
Dietetic Reformer.
Dublin University Magazine.
Financial Reformer.
Florist and Pomologist.
Fortnightly Review.
Fraser's Magazine.*
Gazette des Beaux Arts.
Geological Magazine.
Gentleman's Magazine.
Good Words.
Homeopathic World.
Journal of the Chemical Society.
Journal of Horticulture.

REVIEWS, &c.—Continued.

Leisure Hour.
 London Society.
 Macmillan's Magazine.
 Month, The
 Musical Times.
 Nautical Magazine.
 Our Own Fireside.
 Once a Week.
 Orchestra.
 Portfolio.
 Quiver.
 Railway Guide.
 Revue Archéologique.
 Revue Britannique.
 Revue Chrétienne.
 Shipwrecked Mariner.
 St. James's Magazine.
 Shorthand Magazine.
 Shorthand Times.
 Sunday at Home.
 Tinsley's Magazine.
 Truthseeker.
 United Service Journal.
 Zoologist.

FORTNIGHTLY.

Gazette des Architectes.
 Revue des Deux Mondes.
 Unsere Zeit.

WEEKLY.

Academy.
 Athenæum.
 Architect.
 British Architect.
 Builder.
 Builders' Weekly Reporter.
 Building News.

Broad Arrow.
 Cambridge University Reporter.
 Chemical News.
 Civilian.
 Comptes Rendus.
 Economist.
 Engineer.
 Engineering.
 Engineering and Building News.
 English Mechanic.
 Era.
 Examiner.
 Fun (2 copies).
 Gardeners' Chronicle.
 Graphic (2 copies).
 Iron.
 Journal of Gaslighting, &c.
 Journal of the Society of Arts.
 Judy (2 copies).
 Lancet.
 Land and Water.
 Law Times.
 London News (2 copies).
 Mining Journal.
 Nature.
 Naval and Military Gazette.
 Notes and Queries.
 Oxford University Reporter.
 Pharmaceutical Journal.
 Porcupine.
 Public Opinion.
 Punch (2 copies).
 Saturday Review.
 Spectator (2 copies).
 Volunteer Service Gazette.
 Vanity Fair.
 Weekly Notes.

The following alphabetical list shows the more important donations during the year, irrespective of pamphlets and minor works:—

American Academy of Arts and Sciences:—Notice of Louis Agassiz; by T. Lyman.
 Archer, W. H., Esq., Victoria, New South Wales:—Statistics of the Colony of Victoria, parts 5 and 8; Victoria Patents and Patentees, vol. 7, and Indexes, for 1872.
 Australia, The Government of:—Statistics, for 1873; Victorian Year Book, for 1873; Financial Statement, 1874.
 Board of Commissioners of Public Charities, U.S.A.:—Report on Public Charities.
 Boston, the Council of the City of:—Report of the Auditor of Accounts, 1873-4.
 Bridgett, Rev. T. E. (the Author):—Our Lady's Dowry.
 Bright, H. A., Esq., M.A. (the Editor):—Some Account of the Glenriddell MSS. of Burns' Poems.

British Museum Trustees:—List of Memoirs, Papers, &c., by Dr. J. E. Gray; Catalogue of Roman Coins; Catalogue of Birds; Hand-list of Seals, &c.; Guide to Natural History Collections; Guide to the Egyptian Rooms; Guide to the Græco-Roman Sculptures; Guide to the Egyptian Galleries.
 British Association:—Report of the Forty-fourth Meeting.
 Broadwood, Messrs. J. and Sons:—Catalogue of the Books in the Library of.
 Christiania, the Royal University of:—Postola Sögur, Legendariske af G. R. Unger.
 Chubb, G. H. Esq. (the Author):—Protection from Fire and Thieves.
 Civil Engineers, The Institution of:—Minutes of Proceedings of, vols. 37, 38, 39, and 40.

- Cobden Club:—Molesworth's History of England; Local Government, &c., by J. W. Probyn.
- Elkington and Co., Messrs.:—The Ocean Waves, by Capt. C. Chapman.
- Fairchild, General Lucius, United States Consul at Liverpool:—Report of the Commissioner of Agriculture, 1872; Report on Lighthouses; Report of the Massachusetts Board of Health; Report of the Architect to the Treasury; Report on Sea Fisheries.
- Harvey, W. H., Esq., F.S.A. (the Author):—Home Dwellings.
- Higgins, Rev. H. H., M.A. (the Author):—Opuscula; A Collection of Papers, Addresses, &c.
- Historic Society of Lancashire & Cheshire:—Transactions, 1871-3.
- Holinsworth, C. B., Esq., Birmingham:—The Doctrine of Zion; by John Ward.
- India, The Secretary of State for:—Rig-Veda-Sanhita; edited by F. Max Müller, vol. 6.
- Inman, T., Esq., M.D. (the Author):—Ancient and Modern Symbolism.
- Lewis, J. H., Esq., F.L.S.:—Flora Scotica; Flora Edinensis; Flora Anglica; A Volume of Pamphlets; Flora Lapponica; Philosophia Botanica; The Improvement of Human Reason; Du Fanatisme; Connubia Florum; The Agriculture of Lancashire; A Summary View of the Slave Trade; Flora Mancuniensis
- Literary and Philosophical Society, Liverpool:—Proceedings, 1873-4.
- Liverpool Town Council:—Proceedings, 1873-4.
- Longmans and Co., Messrs. (the Publishers):—Report of the O'Keeffe Trial.
- Manchester Geological Society:—Catalogue of the Library.
- Mason and Co., Messrs. (the Publishers), Melbourne:—Homes and Homesteads; a Handbook of Victoria.
- Maude, William, Esq. (the Editor):—Our Hope; a Magazine, vol. 1.
- Mechanical Engineers, Institution of:—Proceedings, 1866-75.
- Merchant Taylors' Company, London:—Memorials of the Guild of Merchant Taylors; by C. M. Clode.
- Mulhall, Messrs. M. G. and E. T. (the Authors):—Handbook of the River Plate Republic.
- Naval Architects, The Institution of (per C. W. Merrifield, Esq.):—The Principles of Mechanical Philosophy; by J. H. Pratt, M.A.
- Nourse, Professor, United States Navy (per General Fairchild):—Catalogue of Stars; Report on Commerce and Navigation; Report of the Chief of the Engineers; Mines and Mining West of the Rocky Mountains; Report on Canals and Railroads; Invertebrate Fossils; Catalogue of the Corcoran Gallery of Art.
- Patents, The Commissioners of, London:—Specifications of Patents and Indexes, 1874-5.
- Perry, Rev. S. G. F., M.A. (the Author):—Secundam Synodum Ephesinam.
- Pesth, The Magistrates of:—Statistisches Jahrbuch der Stadt Pest.
- Philadelphia Academy of Natural Sciences:—Proceedings, 1874.
- Philadelphia Board of Public Charities:—The Fifth Report of the.
- Pitman, J., Esq., Bath:—*Phonetic Journal*, 1874.
- Quaritch, B., Esq., London:—A General Catalogue of Books, 1874.
- Rathbone, Mrs. Benson:—Lexicon Græcum Etymologicum et Reale; Goethe's Sammtliche Werke; Comedias Varias; Three Plays, by W. Hayley; Pisa Illustrata, a da Marrona.
- Richardson, W. A., Esq. (the Author):—The Public Debt and Banking Laws of the United States.
- Shipley, Rev. Orby, M.A. (the Editor):—Studies in Modern Problems.
- Smithsonian Institution, Washington:—Smithsonian Contributions to Knowledge, vol. 19; Smithsonian Collections, vols. 11 and 12; Geographical Distribution of Animals and Plants.
- Thomas, Mr. Charles, Newtown, Montgomeryshire:—Acts of Parliament of the Reign of Queen Elizabeth, 1585 to 1601.
- Thompson, Mrs., of Thingwall:—Museo Bresciano Illustrato.
- Thompson, W. P., Esq. (the Author):—A Handbook of Patent Law. Two copies.
- Vandyke, A., Esq.:—Analogy of Divine Wisdom; by R. Barton.
- Victoria, The Royal Society of:—Transactions and Proceedings, vols. 10 and 11.
- Williams and Norgate, Messrs.:—Principles of the Greek Architects; by J. Pennethorne.
- Zoological Society of London:—Transactions, vol. 8 pt. 3, vol. 9 pt. 4; Proceedings, parts 2, 3, and 4, 1874, and part 1, 1875.

The present Reading Room is occasionally inconveniently crowded, but this will be obviated when the new room is completed.

The printed volume of the Catalogue and Supplement contains the books received down to the end of 1872. It is proposed to issue a Supplement completing the list to the end of 1875.

During the last few months a system has been brought into operation, by which the list of new books is printed weekly as they are received, and placed on boards for the convenience of readers.

A catalogue of the books numerically is also in progress, which will greatly facilitate identification and the detection of errors.

A perfect check upon the issue and return of the volumes taken out is a great desideratum, but with issues sometimes of nearly 2,000 in a day the process is very laborious. Improvements have recently been introduced, which appear to be working well.

LENDING LIBRARIES.

The Lending department pursues its useful career without calling for much remark. The issues this year are less than those of last year. The quantity of light literature is about three-fourths of the entire issues. The wear and tear of these is very great. The volumes worn out are about 2,400 in the year. These are generally cheap editions of novels, which circulate through 150 to 200 hands, and are then rendered unfit for use. These worn-out works are destroyed, and about one-half have fresh editions in their place. The other half are works which have lost their interest and are replaced by others. In this way there is constant change going on without much absolute increase. The increase in the number of volumes during the last year is 1,281.

The following figures will show the statistics :—

	North Library.	South Library.	TOTAL.
Volumes lent.....	193,013	206,733	399,746
New Tickets issued.....	2,112	2,248	4,360
Tickets renewed.....	2,084	2,095	4,179
Tickets cancelled.....	2,102	2,002	4,104
Total readers on the books.....	4,162	4,355	8,517
Books lost or injured and paid for.....	34	38	72
Books lost.....	7	7	14
Volumes worn out—replaced.....	617	498	1,115
Volumes worn out—withdrawn.....	413	854	1,267
New volumes added.....	641	640	1,281
Total number of volumes in the Libraries.....	20,482	21,146	41,628

Classification of Books Lent:—

Theology, Moral Philosophy, &c.....	5,181	4,283	9,464
Natural Philosophy and Mathematics	3,226	2,696	5,922
Natural History	1,985	2,555	4,540
Science and the Arts	6,493	6,862	13,355
History and Biography	9,350	9,096	18,446
Topography and Antiquities	1,134	1,189	2,323
Voyages and Travels	4,805	5,498	10,303
Miscellaneous Literature.....	13,350	16,126	29,476
Jurisprudence, Politics, &c.	274	298	572
Commerce and Political Economy.....	647	572	1,219
Education, Languages, Logic, &c.	1,930	1,910	3,840
Poetry and the Drama.....	1,740	1,915	3,655
Prose Fiction	142,303	153,252	295,555
Latin and Greek Classics	381	260	641
Books for the Blind.....	214	221	435
TOTAL.....	193,013	206,733	399,746

Mr. Cowell, the late Superintendent, having been appointed Chief Librarian at the Reference Library, his place has been supplied by Mr. Grice, late the Librarian of the North Lending Library.

MUSEUM.

STATISTICS.

The visitors to the Museum during the year have been as follows:—

	1874-5.	1873-4.	Increase.
Total Day Visitors	461,385	413,591	47,794
Weekly Average	8,872	7,953	919
Daily Average	2,166	1,941	225

The 18th of October, 1875, was the fourteenth anniversary of the opening of the Museum in the present building. During that time the total number of visitors amounted to 6,257,702 (or slightly over six millions and a quarter), giving a yearly average of 446,978 (or very nearly 450,000).

DONATIONS.

The donations have been as under:—

The Skin and Skeleton of immature Manatee (*Manatus Australis*); specimens of 9 species of Crustacea; Egg Sacs of *Ampullaria*; a small Siliceous Sponge; a specimen of *Murex* with its Egg Capsules (taken while spawning); Egg Capsules of *Pyrula melongena* and of *Strombus gigas*; two Corals, and specimens of Mud-Wasps and Nests, all from Belize; collected and presented by Staff Surgeon-Major Samuel Archer, Corr. Mem. Lit. and Phil. Soc. of Liverpool.

Specimens of small Swimming Crabs, taken from the Gulf weed in lat. 22.12 N., long. 87.2 W.; collected and presented by Mr. C. A. Armstrong.

Two large Trumpet Sponges from Yucatan ; presented by Dr. Barry, Staff Surgeon, Corosal, per Staff Surgeon-Major S. Archer. These Sponges being new to science have been described and figured in the "Annals and Magazine of Natural History" for Sept., 1875, under the name of *Luffaria Archeri*, by Mr. Thomas Higgin, of Huyton. One of them is nearly four feet in height.

A Sea Snake (*Hydrophis*) and three Fishes from Saugor Roads ; presented by Mr. W. L. Bathgate.

The head of a 51½-lb. Salmon from the River Lune, and the Nest of a Tree Wasp, from Heysham, near Lancaster ; presented by Mr. Alderman Bennett, J.P.

200 Salmon Ova ; presented by Mr. J. Birch, per Mr. Westall Ramsbottom.

A young Manatee (*Manatus Australis*) ; presented by Mr. Samuel Booker, Georgetown, Demerara.

Two Brazilian Snakes ; presented by Rev. J. Bowman.

An East Indian Goat ; presented by Mr. H. Brown.

Two specimens of the Colorado Potato-Beetle (*Doryphora decemlineata*), and six specimens of the American Asparagus-Beetle ; brought from Staten Island, New York, and presented by Mr. Stewart H. Brown.

115 specimens of 50 species of named British Micro-Lepidoptera ; collected and presented by Mr. John T. Carrington.

A specimen of Bark from a "Red Wood Tree," fifteen feet in original diameter, from California ; presented by Capt. Carter, American ship, "Columbia," per Messrs. Emmers and Houghton.

A Skua Gull and Kittiwake, shot on the Mersey while fighting, and presented by Mr. Wm. Chard.

Two newly-hatched Terrapins for the Aquaria ; presented by Mr. E. Davies.

A specimen of Teredo, seven inches long, from a Nova-Scotia-built ship in her fourth year trading in the Atlantic, and one voyage to the Mediterranean ; presented by Mr. J. O. de Wolf.

A Common snake (*Natica torquata*) from Crosby ; presented by Mr. R. Edwards.

A small Bat ; a living Box Tortoise ; a living young Terrapin ; five living Freshwater Fish ; and four Newts, all from New York ; presented by Mr. D. E. M. Elder.

A rare Shell (*Rhodea gigantea*) from New Grenada ; presented by Mr. D. Filby, per Mr. R. J. Keen.

The Skull and Bones of a Goat, the Teeth of a Horse, &c., from the Formby and Leasowe Marine Beds; presented by Mr. R. M. Foster, per Mr. T. Mellard Reade, C.E.

An Alcyonoid Coralline with elongated branchlets and footstalks, probably undescribed; presented by Mrs. Gardner, per Rev. H. H. Higgins.

A fine mass of Polyzoa (*Eschara*) from Tuticorin, Ceylon; presented by Mr. C. T. Gatty.

Specimens of Mosquitoes from New Orleans; collected and presented by Mr. George H. Gordon.

A Gambian Pouched Rat (*Cricetomys gambianus*, Waterhouse); presented by Mr. H. E. Grant, Sierra Leone, per Mr. F. Radcliffe.

The Skull of a Hippopotamus from West Africa; presented by Messrs. Griffiths, Bettison & Co.

A living Blue Roach from Knowsley, and Five Common Roach; presented by Mr. George Hale.

Specimens of small Ganoid Fish (*Calamoichthys calabaricus*), a Lizard, and one Fish from Old Calabar; presented by Mr. Charles Haptie.

A small specimen of the Basket Fish (*Astrophyton*) from the Falkland Islands; specimens of eight species of Sponge from the West Indies, and one from the Falkland Islands; presented by Mr. Lawrence Hardman.

Two specimens of *Anthea cereus* from Jersey; collected and presented for the Aquaria by Mr. Henry Hawkins.

Thirty specimens of twenty species of Birds from Egypt; presented by Mr. Henry Heap.

Eight small specimens of six species of Sponges, chiefly from Guernsey; presented by Mr. Thomas Higgin.

Large Starfish (*Astropecten irregularis*); Parasitic Anemones; Hermit Crabs; Molluscs, specimens of *Pennatulæ*, &c., from Gibraltar Bay; a Sponge in its Natural State; a Coral (*Dendrophyllia ramea*) dredged in Alexandria Bay; a piece of Timber destroyed by Teredos, &c., Alexandra Harbour Works; two small rare Fish allied to Spinola's Deal Fish (*Trachypterus spinolæ*); a bottle of Insects; a rare Crab (*Lissa chiragra*); two Lepidopterous Larvæ; two small sections of Selenite; two specimens of *Virgularia*; and two specimens of *Triton variegatus* with opercula from Malta; Four Annelids (*Eunice*) from Alexandria; and other Marine Specimens; collected and presented by Capt. Horsfall, S.S. "Canopus," Associate of the Lit. and Phil. Society of Liverpool.

Two specimens of the Burbolt (*Lota vulgaris*); presented by Rev. W. Houghton.

Robin's Nest (built in an old Tea-pot at Knotty Ash) and two eggs presented by Mr. James Hughes.

A Pendulous Wasp's Nest from the Valley of the Tapajoy, River Amazon and a large Pod of Nuts from the Amazons; presented by Capt. Jackson, S.S. "Ambrose."

Twelve Sponges, and an Apodal or Finless Fish from West Africa; presented by Mr. R. J. Keen.

A large Locust (*Acridium cristatum?*); a Coral Snake (*Elaps fulvius*); a Green Tree Snake, all from the Isthmus of Panama, and a Flying Squid (*Onychoteuthis Banksii*), flew on board ship, lat. 20 N., long. 60 W.; collected and presented by Commander W. W. Kiddle, R.N.

Two specimens of a luminous Molluscoid (*Pyrosoma*) taken in lat. 11.27 N., long. 34.9 W.; a rare Annelid (*Chloecia*) from the Straits of Banca; and a cluster of Molluscan Spawn; collected and presented by Capt. Kruisinga, Dutch Ship "Amsterdam."

A Cocoon of large Moth (*Saturnia*) from the United States; presented by Mr. J. Lee.

A Mass of Perforated Rock with borings of Molluscs, Echini, &c., from Bogaz Bar, Alexandria; presented by Capt. McKillop, Controller of Egyptian Ports, per Capt. Horsfall, S.S. "Canopus."

A Culminated Albatross (*Diomedea culminata*); by Lieut. Angus MacLeod, R.N., H.M.S. "Barracouta," Australian Station, per Messrs. Hallett and Co.

A Lobster, weighing 7½ lbs. taken at Portellen, Islay, Scotland; presented for the Aquarium by Mr. H. McDougall.

Three Natterjacks (*Bufo calamita*) from Birkdale; presented for the Aquaria by Mr. W. H. M. Mawdsley.

A young Three-toed Sloth; a Coral Snake; a Fish; four Hornets; and a Huacho; presented by Mr. Joseph Mayer, F.S.A.

A Bat; three Snakes, &c., from Old Calabar; presented by Mr. R. H. Minns.

A living Electric Fish (*Malapterurus beninensis*) from West Africa; presented by Mr. Robert Morgan.

Specimens of various American Fish, Shells (*Solen*, *Terebratulina*, *Natica*), Spawn, &c.; a Bat; three living Shellfish for Aquaria; and a Crystal of Apatite from New York; presented by Capt. J. H. Mortimer, ship "Isaac Webb," Associate of the Lit. and Phil. Society of Liverpool.

A large Fossil Fish (*Dapedius punctatus*) from the Lias, Stone, Staffordshire; presented by Mr. R. Neilson.

A specimen of *Spongia officinalis* on piece of Rock from the Mediterranean ; and a specimen of *Cymbulia* (?) from Biarritz ; presented by Dr. J. Birkbeck Nevins.

A fine specimen of branched Coralline (*Plexaura porosa*) from Jamaica ; and a specimen of *Millepora* encrusting a *Gorgonia* stem from the same ; presented by Capt. J. A. Perry, Associate of the Lit. and Phil. Soc. of Liverpool.

A young Loggerhead Turtle from Cape Palmas, W. Africa ; presented by Mr. C. Potter.

Two specimens of Marcasite and forty specimens of Iron in various combinations ; brought from Elba, and presented by Mr. Thomas T. Ritson.

Specimens of Cray Fish, Water Beetles, and Caddis Worms, for the Aquaria ; presented by Mr. John Robertson.

Skeletons of three Pouched Rats (*Geomys bursarius*) ; collected and presented by Mr. James Roe, Belize, Assistant Commissary, Northern District, British Honduras.

A Madder Hawk-Moth (*Deilephila Galei*) ; taken at Roby, and presented by Mr. E. Samuelson, J.P.

Two Groups of Nests of Oriole from Demerara ; presented by Mr. Archibald Sandbach.

Three Birds from Demerara ; presented by Mr. Gilbert R. Sandbach.

Specimens of Lizard (*Lacerta agilis*) ; Edible Frog (*Rana esculenta*) ; and Tree Frogs (*Hyla arborea*) from Lippe Detmold ; presented for the Aquaria by Mr. F. F. Schnitger.

Three specimens of *Ampullaria* with Opercula from Calcutta ; twelve specimens of Crustacea and ten Shells from Bathurst, River Gambia ; and three specimens of *Verella* with the native colour preserved ; collected and presented by Capt. Slack, Associate of the Lit. and Phil. Society of Liverpool.

Two small bottles of *Synapta inhaerens* from Belfast Lough ; presented by Mr. Wm. Swanston.

A specimen of Fleming's Sea-Urchin (*Echinus Flemingii*) from Cornwall ; presented by Mr. J. S. Tyerman.

A Wild Cat shot about 20 miles from Alexandria ; presented by Messrs. S. Wakeham and Son.

A collection of small Marine Specimens, including Sponges, *Polyzoa*, and other Dredgings ; collected and presented by Capt. Cawne Warren, Associate of the Lit. and Phil. Society of Liverpool.

Eggs of 40 species of British Birds ; presented by Mr. T. West.

A specimen of the Great Northern Diver (*Colymbus glacialis*), shot in Skye; presented by Mr. J. M. Williams.

Three Horned Frogs (*Phrynosoma cornubica*), from Texas; presented by Capt. Gilbert Williams.

A young living Alligator, from Mobile; presented by Miss M. S. Williston.

A Humming Bird's Nest, from Hayti; presented by Capt. Winder, s.s. "Californian."

A Marble Slab with Greek inscription and figures in relief, from the mouth of the Aqueduct at Ephesus; brought from Smyrna, and presented by Mr. Edward Bibby, F.R.G.S., Hart Hill.

Anglo-Saxon Antiquities, consisting of Iron Implements (sword blade, &c.), Silver Dagger Handle, and an Ornamental Mounting from a Sword Sheath; presented by Mr. T. T. Bushell, on whose property at Gilton, Kent, they were found.

An antique circular Bronze Mirror, found at Damanhour, Lower Egypt; presented by Rev. Greville J. Chester.

Two small working Model Looms, for weaving ribbon and for weaving braid, constructed by the late Mr. W. D. Chidson, of Liverpool; presented by his son, Mr. W. H. Chidson.

Six cases of Moulds of Runic Monuments of the Isle of Man; presented by Sir Henry Dryden, Bart.

A rude Stone Axe, found at Wilmington, Delaware, U.S.A.; presented by Mr. S. D. Jennison, Wilmington, U.S.A.

A MS. Roll or Horoscope, drawn up by a Mahratta Brahmin Priest at Bombay, 1873; presented by Mr. Bryan M. King.

The Boots, Gloves, and Silver Spoon of King Henry VI. (stamped with earliest-known Hall mark), given by him to Sir Ralph Pudsey in 1463; a carved Oak Chest containing the same; also, an Engraving, Printed Book, and MS., relating thereto; four small Braggart Cups and one of Pennington (?) Ware; a minute Gold Medal of "Napoleon, Empereur" ($\frac{1}{4}$ -inch only in diameter); a Brass Tobacco Box, dated 1659; a modern Chinese Money Scale; a Chinese Ivory Carving of a Mother and Child; a Triptych containing Indian Ivory Carvings; an Italian carved Ivory Medallion; four Anglo-Saxon ornamented Silver Tags for Straps; two Gold Anglo-Saxon Fibulæ; and one late Celtic Bronze Spoon, found in Ireland; presented by Mr. Joseph Mayer, F.S.A.

Specimens of Native Hair, from the Fiji Islands; presented by Mr. W. Merriman.

Eighteen specimens of Peruvian Pottery; presented by Mr. William Todd Naylor, per Mr. Joseph Mayer, F.S.A.

A specimen of Tappa, or Native Cloth, made from the inner bark of the Paper Mulberry (*Broussonetia papyrifera*), from Pitcairn Island; presented by Fleet-Surgeon J. Linton Palmer, R.N.

A Portrait, in oil, of Seth Pennington, the Liverpool Potter, and a pair of blue and white Porcelain Pickle Dishes, made by him, and preserved in his family; presented by Mr. C. L. Pennington.

Samples of Gun Flints, from Norfolk, and samples of Venetian Beads (both being shipped at present date to West Africa); presented, for comparison with antiques, by Mr. F. Radcliffe.

A Box of Money Changer's Weights and Scales, bought at Sienna, 1873; a small Earthenware Jug, of Schramberg Ware; and a cream-coloured Pottery Mug, of Liverpool Ware (?); presented by Mr. P. H. Rathbone.

A Wedgwood Cup and Saucer, red and blue floral pattern, gilded; presented by Mr. Benson Rathbone.

A printed Bowl of Cream Ware (portraits of Washington, T. Fletcher, and Shelton), and an opaque Glass Mug with landscape and figures, old Bristol glass (?); presented by Mr. John Sale.

A carved Wood Block, till lately used in Liverpool for printing Wall Papers by hand; and a Snake, in terra cotta, from Central America; presented by Mr. H. Ecroyd Smith.

Cast taken from a Danish Tombstone found in St. Paul's Churchyard, London; presented by the Society of Antiquaries.

PURCHASES.

The principal purchases have been as follows:—

Two specimens of rare Lemurs and fifty other Mammals, including several kinds from Madagascar.

A young specimen of Owen's Apteryx and thirty-six other Birds.

Ten specimens of Fish.

A Skeleton of the Lyre Bird of Australia and forty-five other Skeletons and Skulls.

A specimen of the Bee Parasite (*Stylops*) and twenty-three other Insects mounted for the Microscope.

Forty specimens of Crustacea and forty-eight specimens of Starfishes, &c., chiefly from the Mauritius and Western Australia.

The Marrat Collection of Shells of the Genus *Oliva*, in which are included the specimens figured in the Monograph of the Genus published in Sowerby's "*Thesaurus Conchyliorum*"; also ninety-eight specimens of Shells of various genera.

Twenty-five specimens of Corals and seven of Sponges.

A very fine and perfect Tusk of the Siberian Mammoth (*Elephas primigenius*), with a small Tazza, or Cup, of similar Ivory; and seventy other Fossils, including Teeth of Mastodon, Rhinoceros, Tapir, Hipparion, &c.

A Collection of Antiquarian and other Remains from the Cheshire Sea-shore.

Four specimens of Japanese Porcelain, two of Chinese, twenty-six of Liverpool Ware, and three others.

EXCHANGES.

Exchanges have been carried on with the following:—

Capt. Hutton, Director of the Otago Museum, Dunedin, New Zealand; from whom has been received, among other specimens, a very fine skeleton of the Elephant-footed Moa (*Dinornis elephantopus* of Owen), which has been successfully mounted for exhibition.

Dr. Millen Coughtrey, Professor of Anatomy, University of Otago, Dunedin; from whom has been received a collection of New Zealand Sponges, Zoophytes, Shells, Crustaceans, Native Stone Implements, &c.

Mr. F. W. Putnam, Director of the Peabody Academy of Sciences, Salem, Massachusetts.

Professor Leidy, Philadelphia.

Mr. W. E. Baker, Aquarial Garden, Boston, per Mr. Henry S. Hale, Curator.

Mr. A. B. French, Boston.

Rev. A. Lakes, Curator, School of Mines, Golden City, Colorado.

Prof. George W. Allyn, High School, Fort Wayne, Indiana, U.S.A.

Prof. Schnitger, Lippe Detmold.

Lieut.-Col. McMahon, Officiating Commissioner, Hissar, Punjab:

The Southport Winter Garden and Aquarium Company.

Prof. E. Ray Lankester, Exeter College, Oxford.

Mr. W. Kitchen Parker, Hunterian Professor, Royal College of Surgeons, London.

Mr. W. S. M. D'Urban, Albert Memorial Museum, Exeter.

Mr. G. B. Rothera, Free Public Museum, Nottingham.

Mr. S. Trice Martin, Altrincham, from whom have been received several rare Sponges from the Philippines, including a large and fine new species of Glass-Rope Sponge. This has since been described and figured in the "Annals and

Magazine of Natural History" for June, 1875, under the name of *Hyalonema cebuense*, by Mr. Thomas Higgin, of Huyton.

Miss Gatty, Ecclesfield Vicarage, Sheffield.

Mr. Wm. Cash, Halifax.

Mr. W. P. Sladen, Halifax.

Mr. T. Tate, Bradford.

Mr. Thomas West, Eccleston, and

Mr. A. Overbeck.

LOAN COLLECTION.

Two Suits of Japanese Armour, and a collection of Weapons, &c., deposited by Mr. Edward Bibby, F.R.G.S., Hart Hill, by whom they were collected, in 1874-5, in Persia, India, Japan, Borneo, South Sea Islands, and America.

ART DEPARTMENT.

The following donations have been presented during the year :—

A large Oil Painting, "Forest in Finland," by Lindholm; presented by Mr. A. Baruchson.

Two Modern French Vases; presented by Mr. James Harrison.

An Oil Painting representing the "Opening of the Dutch Fishery" (an old State ceremonial); presented by Mr. Wm. Mann, per Mr. T. Hardman.

A Bust of Sir Jeffrey Wyattville, Architect; presented by Mr. W. H. Wordley.

A copy of the Venus de Medici in marble, by Bartolini; presented by the late Alderman Carey.

The large Oil Painting, "Julian the Apostate Presiding at a Council of Sectaries," by E. Armitage, R.A.; presented by Mr. Alderman Bennett, J.P.

A Marble Group "Cupid and Psyche;" purchased at the sale at Hooton Hall, and presented by Mr. John Torr, M.P.

LECTURES.

During several years Free Courses of Lectures have been delivered during the winter months, and have met with such success that they now form part of the regular business of the Institution.

The Lectures in 1875 were as under :—

One Lecture on a Few Important Events in English History, by James A. Picton, Esq., J.P., F.S.A.

Six Lectures on Art, by Mr. W. J. Bishop, Drawing Master of the Liverpool College, and Head Master of the Liverpool North District School of Art.

Six Lectures on the Chemistry of Gas Manufacture, and of the Products Resulting from it, illustrated with specimens, diagrams, and numerous experiments, by Mr. Edward Davies, F.C.S.

Three Lectures on Art and Antiquities, by Mr. Charles T. Gatty, Assistant Curator of the Mayer Museum.

One Lecture on the Unity of Plan and Evidence of Design in the Animal Frame, from the Fish to the Man, by Mr. B. Waterhouse Hawkins, F.L.S., F.G.S.

Two Lectures on the Voice in Singing, and the Art of Reading Vocal Music at Sight, illustrated by diagrams, by Mr. James Veacock.

Six Lectures on Navigation and Astronomy, by Mr. J. T. Towson, F.R.G.S.

Three Biological Lectures, by Dr. Millen Coughtrey, Professor of Anatomy and Physiology in the University of Otago, New Zealand.

One Lecture on the Bradshaw's Guide of Thirty Years Ago, or Travelling as it Was Compared with Travelling as it Is, by the Rev. Hugh Stowell Brown.

Two Lectures on Local Exhibitions of Pictures, by Mr. B. H. Grindley.

One Lecture on the Influence of the Fine Arts on the Moral and Intellectual Life of Great Cities, by P. H. Rathbone, Esq.

Three Lectures on the Political and Social History of England in the Middle Ages, by Mr. James Birchall, formerly Government Lecturer on History in the Normal College, York, and Author of "England under the Normans and Plantagenets," &c.

One Lecture on the History and Practice of the Art of Etching, with illustrations, by Mr. John Finnie, Head Master of the Government School of Art, Southern Division.

Four Readings, by Mr. Frederick Kempster, M.A.

During two seasons a course of French instruction has been gratuitously conducted by Professor J. D. Gaillard, and has met with great success. Another course is in progress during the present winter.

The Institution has now assumed a very extensive and important position, and if properly conducted is calculated to produce very important results in the diffusion of knowledge and the promotion of education. The Committee feel their responsibility, and are determined that no effort shall be wanting to render the machinery in operation perfectly efficient.

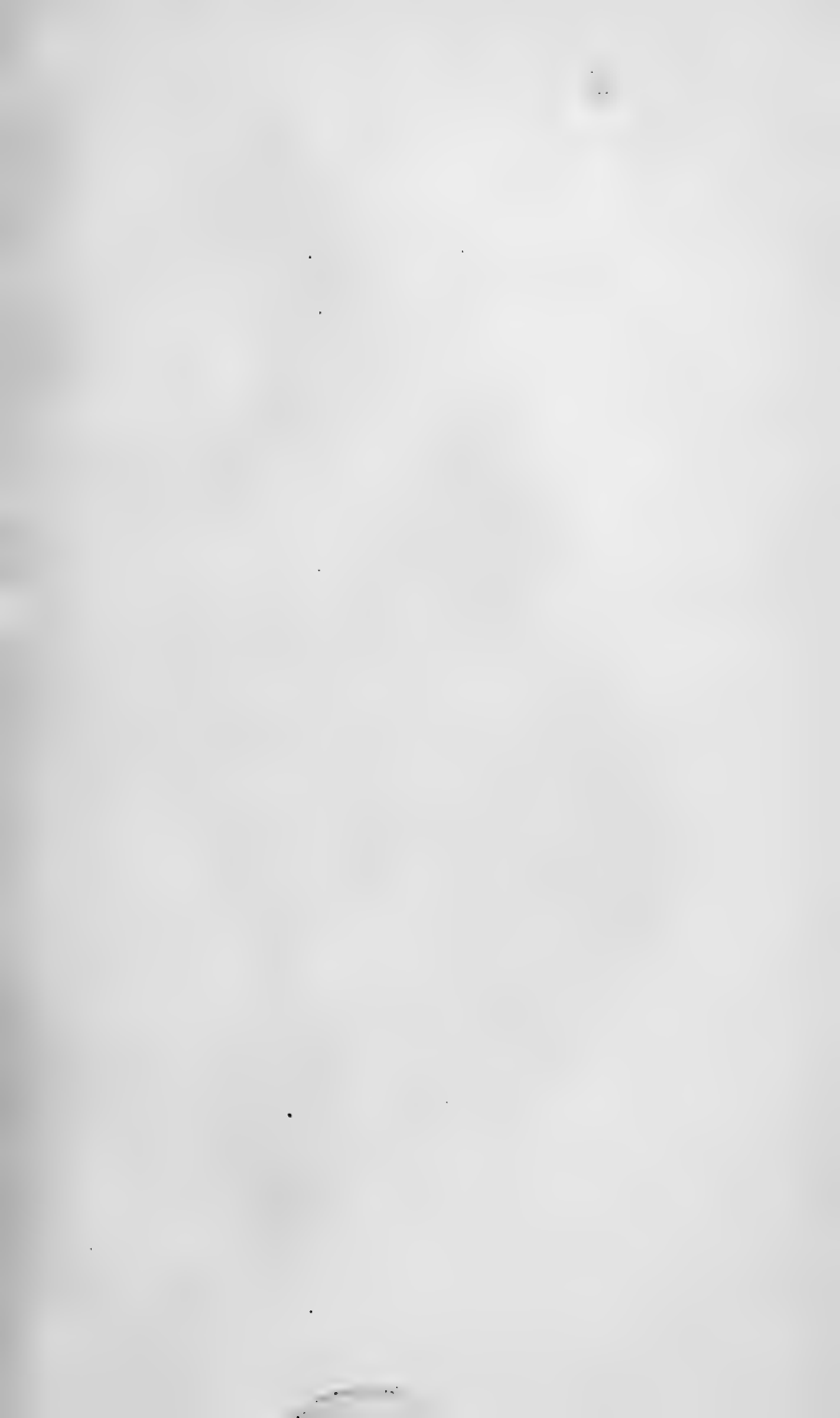
Signed, on behalf of the Committee,

PRESIDENT J. A. PICTON,

CHAIRMAN

15 JUL 1898



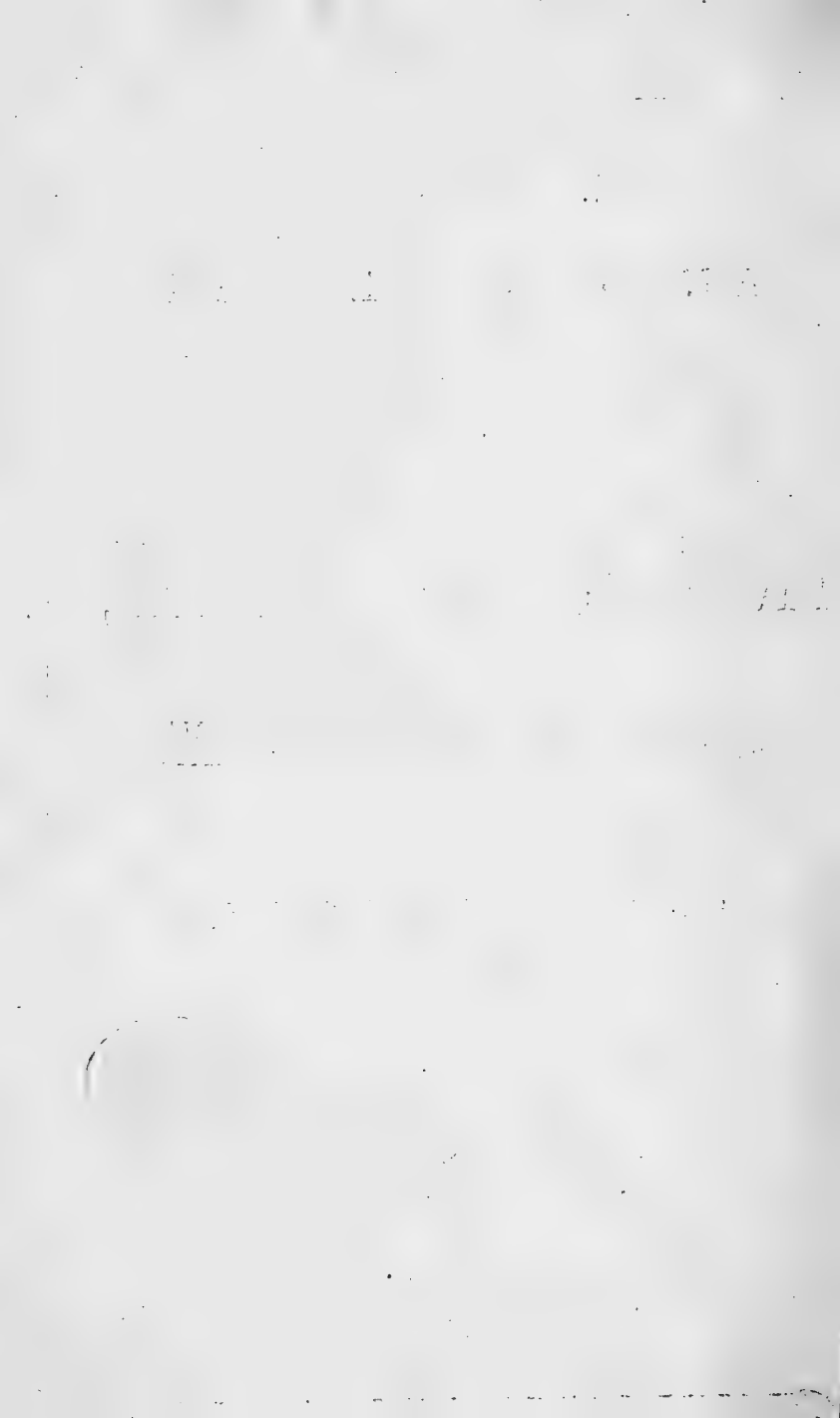




TWENTY-FOURTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM, AND GALLERY OF ART,
OF THE
BOROUGH OF LIVERPOOL,



LIVERPOOL:
HENRY GREENWOOD, PRINTER, 32, CASTLE STREET.
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OFFICERS AND COMMITTEE

FOR THE YEARS 1876-77.

Committee.

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A. B. WALKER, MAYOR.

T. AVISON, F.S.A.,

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Chief Librarian.

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Superintendent of the Lending Libraries.

HENRY GRICE.

Curator of the Museum.

THOMAS J. MOORE.

Assistant Curator, Mayer Collection.

C. T. GATTY.

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R E P O R T .

THE year just expired has been one of continued usefulness and success in every department of the Institution, as will be found on reference to the statistics presented below.

The opening of the Walker Art Gallery has been deferred, mainly owing to the delay in completing the sculptural decorations, arising from the difficulty experienced by the artist in obtaining perfect blocks of suitable marble. This having been surmounted, it is hoped that within a short period this valuable addition to the accommodation will be thrown open, and form a centre for the study of Art for future generations.

REFERENCE LIBRARY.

This department increases in usefulness every year. The collection of books on all subjects has become extremely valuable, and, as it is better known, is more and more appreciated by students, who frequently come from long distances to consult the works.

The advantage of a private room for special students has been so highly appreciated that the applications for reading tickets are more than the present space will accommodate. When the new reading room is completed this difficulty will be surmounted.

One great desideratum in a Reference Library is that the catalogue should be so kept up as to make the latest additions available, and bring them under the notice of readers. By a plan adopted during the past year, the additions are now printed weekly and inserted alphabetically in the catalogue.

An alteration has been made in the form of the returns by which the issues of periodicals are separated from those of volumes. There has been on the whole a considerable increase of issues during the year.

TABLE I.—Showing the total issues in the various classes, together with the daily average :—

Classification.	Volumes Issued.	Daily Average.
Theology, Morals, &c.	17,923	64
Natural Philosophy, Astronomy, &c.	11,639	41
Natural History	6,792	24
Science and the Arts	23,692	84
History and Biography	26,060	93
Topography and Antiquities	6,118	22
Voyages and Travels	14,306	51
Miscellaneous Literature (principally Collected Works, Magazines, &c.)	113,861	405
Jurisprudence, Law, and Politics	2,984	11
Commerce, Political Economy, and Statistics	2,675	9
Education and Language	5,914	21
Poetry and Dramatic Literature	14,753	53
Prose Fiction	152,438	543
Latin and Greek Classics, and Translations	2,214	8
Heraldry, Encyclopædias, and Works of Reference	7,745	27
Total	409,114	1,456

TABLE II.—Showing the issue of weekly periodicals (Directories, Dictionaries, &c.), classified according to their character. Quarterly and Monthly Magazines, &c., are reckoned as Books, and included in TABLE I. :—

Classification.	Issues.	Daily Average.
Natural Philosophy	3,328	12
Natural History	3,172	11
Science and the Arts	15,132	53
Miscellaneous Literature (principally illustrated and literary periodicals)	95,784	341
Law and Politics	1,040	4
Commerce and Political Economy	780	3
Directories and Dictionaries	13,156	47
Total	132,392	471

TABLE III.—Showing the new books added, together with the totals of each class of literature now in the Library :—

Classification.	Volumes added.	Totals.
Theology, Morals, &c.	231	4,996
Natural Philosophy, Astronomy, &c.	79	1,477
Natural History	97	3,493
Science and the Arts	364	7,521
History and Biography	282	8,598
Topography and Antiquities	170	2,992
Voyages and Travels	117	3,730
Miscellaneous Literature (principally Collected Works, Magazines, &c.)	502	12,735
Jurisprudence, Law, and Politics	159	5,392
Commerce, Political Economy, and Statistics	40	660
Education and Language	72	1,053
Poetry and Dramatic Literature	71	2,777
Prose Fiction	39	5,267
Latin and Greek Classics and Translations	44	457
Heraldry, Encyclopædias, and Works of Reference	71	1,998
Total	2,338	63,146

The patents consulted number 5,640, being an average of 20 per day.

It may be interesting to give in a synoptical form the Reviews and other Periodicals taken :—

QUARTERLY.

Annales des Sciences Naturelles.
 Archæologia Cambrensis.
 Archæological Journal.
 British Quarterly Review.
 Dublin Review.
 Edinburgh Review.
 Ibis.
 Journal of Anatomy.
 Journal of the British Archæological Association.
 Journal of Microscopical Science.
 Journal of the Royal Agricultural Society.
 Journal of the Society of Antiquaries.
 Journal für Ornithologie.
 Journal of the Statistical Society.
 Life Boat.
 London Quarterly Review.
 Mind, The.
 Navy List.
 New Quarterly Magazine.
 North American Review.
 Popular Science Review.
 Quarterly Journal of the Geological Society.
 Quarterly Journal of Science.
 Quarterly Review.
 Revue Celtique.
 Revue et Magasin de Zoologie.
 Stray Feathers.
 Theological Review.
 Westminster Review.
 Y Traethodydd.
 Zeitschrift für Deutsche Philologie.

MONTHLY.

All the Year Round.
 Annals and Magazine of Natural History.
 Army List.
 Art Journal.
 Atlantic Monthly.
 Banker's Magazine.
 Belgravia.
 Blackwood's Magazine.
 Cassell's Magazine.
 Chambers's Journal.
 Church of England Magazine.
 Congregationalist.
 Contemporary Review.
 Continental Railway Guide.
 Cope's Tobacco Plant.
 Cornhill Magazine.
 Daheim.
 Dietetic Reformer.
 Dublin University Magazine.
 Financial Reformer.
 Florist and Pomologist.
 Fortnightly Review.
 Fraser's Magazine.
 Gazette des Beaux Arts.
 Gartenlaube, Die.

Geographical Magazine.
 Geological Magazine.
 Gentleman's Magazine.
 Good Words.
 Homœopathic World.
 Journal of the Chemical Society.
 Journal of Horticulture.
 Leisure Hour.
 London Society.
 Macmillan's Magazine.
 Month, The.
 Monthly Microscopical Journal.
 Musical Times.
 Nautical Magazine.
 Our Own Fireside.
 Once a Week.
 Orchestra.
 Portfolio.
 Quiver.
 Railway Guide.
 Revue Archéologique.
 Revue Britannique.
 Revue Chrétienne.
 Shipwrecked Mariner.
 St. James's Magazine.
 Shorthand Magazine.
 Shorthand Times.
 Sunday at Home.
 Tinsley's Magazine.
 Truthseeker.
 United Service Journal.
 Zoologist.

FORTNIGHTLY.

Gazette des Architectes.
 Revue des Deux Mondes.
 Unsere Zeit.

WEEKLY.

Academy.
 Athenæum.
 Architect.
 British Architect.
 Builder.
 Builders' Weekly Reporter.
 Building News.
 Broad Arrow.
 Cambridge University Reporter.
 Chemical News.
 Civilian.
 Colonies, The.
 Comptes Rendus.
 Economist.
 Engineer.
 Engineering.
 Engineering and Building Times.
 English Mechanic.
 Era.
 Examiner.
 Fun (2 copies).
 Gardeners' Chronicle.

REVIEWS, &c.—(Continued.)

Graphic (3 copies).
 Iron.
 Jewish Chronicle.
 Journal of Gaslighting, &c.
 Journal of the Society of Arts.
 Judy (3 copies).
 Lancet.
 Land and Water.
 Law Times.
 London News (3 copies.)
 Mining Journal.
 Nature.

Naval and Military Gazette.
 Notes and Queries.
 Oxford University Reporter.
 Pharmaceutical Journal.
 Porcupine.
 Public Opinion.
 Punch (2 copies).
 Saturday Review (2 copies).
 Spectator (2 copies).
 Volunteer Service Gazette.
 Vanity Fair.
 Weekly Notes.

The following alphabetical list shows the more important donations during the year, irrespective of pamphlets and minor works:—

- American Association for the Advancement of Science:—Fossil Butterflies, by S. H. Scudder.
- Archer, F., Esq.:—Pieces of Irish History, by W. T. MacNeven; Report to the Irish House of Commons, by Viscount Castlereagh.
- Axon, W. E. A., Esq., F.S.S. (the Editor):—Genealogy of the Pilkingtons of Lancashire, by the late John Harland, F.S.A.
- Braga, J. M., Esq. (Brazilian Consul):—The Empire of Brazil at the Philadelphia Exhibition, 1876.
- Bridgett, Rev. T. E. (the Author):—The Discipline of Drink; Sermons on the Sacraments, by Thomas Watson, (Edited by the Rev. T. E. Bridgett.)
- Civil Engineers, The Institution of:—Minutes of Proceedings of, Vols. 41, 42, 43, and 44.
- Company of Clockmakers, London:—Catalogue of the Books, &c., belonging to the Worshipful Company of Clockmakers, in the Free Library, of the Corporation of London.
- Clough, James C., Esq. (the Author):—On the Existence of Mixed Languages.
- Cobden Club:—Robinson Crusoe's Money, by David A. Wells; The History of Free Trade in Tuscany, by James M. Stuart; Relations of Landlord and Tenant in England and Scotland, by William E. Bear; The Romance of Trade, by H. R. Fox-Bourne.
- Davis, Rear-Admiral C. H., United States Naval Observatory, Washington, per General Fairchild:—Astronomical and Meteorological Observations, 1873; Washington Astronomical and Meteorological Observations, 9 vols. and 4 parts; Papers relating to the Transit of Venus, 1874, 2 parts.
- Deacon, G. F., Esq., C.E. (the Author):—On Constant and Intermittent Water Supply.
- Derby, The Right Hon. the Earl of:—Catalogue of the Collection of Paintings at Knowsley Hall, by George Scharf, F.S.A.
- Dobb, Messrs. T. & Co. (the Publishers):—Diseases of the Hip, &c., by H. O. Thomas.
- East India and China Association, per J. B. Cooper, Esq.:—Parliamentary and Other Papers, 28 vols.
- Fairchild, General, United States Consul:—Labor in Europe and America, by E. Young, Ph.D., 2 vols.; Directory of Ironworks in the United States; Reports of the American Iron and Steel Association for 1874 and 1875; Congressional Record, with Indices and Appendices, 1873-5, 12 vols.
- Hume, Rev. Dr.:—An Universal Etymological English Dictionary, by N. Bailey.
- Lassell, W. (the Author):—On Polishing the Specula of Reflecting Telescopes.
- Liverpool Literary and Philosophical Society:—Proceedings, Vol. 29.
- Liverpool School Board:—Proceedings, 1874-5.
- M'Cosh, J. (the Author):—Nuova Italia; or, Tours and Retours; a Poem, Vol. 2.
- Maude, William, Esq. (the Editor):—Our Hope; a Magazine, Vol. 2.
- Mechanical Engineers, Institution of:—Proceedings, 1875-6.
- Moore, Mrs. Sarah:—Human Physiology by T. L. Nichols, M.D.; Enoch, the Second Messenger of God, 2 vols.; The Book of God; The Apocalypse; Introduction to the Apocalypse; Commentary on the Apocalypse.
- Municipal and Sanitary Engineers, Association of, per G. F. Deacon, Esq., C.E.:—Proceedings, 1875.
- Namby-Pamby; or, a Hotch Potch of Poetic Tit Bits, from the Author.
- Nicholls, J. F. Esq. (the Author):—How to See Bristol; Pleasant Trips Out of Bristol.

DONATIONS, &c.—(Continued.)

- Patents, The Commissioners of, London : Specifications of Patents and Indexes, 1875-6.
- Philadelphia Academy of Natural Sciences:—Proceedings, 1872 and 1875.
- Pitman, Isaac, Esq.:—The Phonetic Journal for 1875.
- Pollexfen, W. M., Esq., C.E.:—The Un-sinkable Vessel of War.
- Prendergast, G. L., Esq. (the Author):—Concordance to the Iliad of Homer.
- Rawlinson, Robert, Esq., C.B.:—Catalogue of the Works of Sir Edwin Landseer, R.A.
- Rochdale Free Library Committee, per Mr. Alderman Booth, Chairman:—Various Pamphlets published in Liverpool.
- Royal Colonial Institute:—Proceedings, Vols. 6 and 7.
- Russell, Logan D. H. (the Author):—Effects of Inspiration as Relating to Various Diseases of the Lungs.
- Samuelson, Mr. Alderman:—Eighteen Volumes of Books for the Blind, printed in raised letters at the American Printing House for the Blind, Louisville, Kentucky; Catalogue of the British Section of the International Exhibition, Philadelphia, 2 vols.
- San Francisco Mercantile Library:—Supplemental Catalogue.
- Science and Art Department, South Kensington.—Descriptive Catalogue of the Fictile Ivories in the South Kensington Museum, by J. O. Westwood.
- Smithsonian Institution, Washington, U.S.A.:—Report of the, 1874.
- Social Science Association, Committee of the:—Transactions, 4 vols.
- Trübner, Messrs., & Co.:—Early English Text Society's Reprints, Chaucer's *Animadversions*, 1598; Edited by G. H. Kingsley, M.D.
- United States Government, per General Fairchild, U.S. Consul at Liverpool:—United States Geological Survey of the Territories, 10 vols.; Official Gazette of the United States Patent Office, and General Index, 6 vols.; Cholera Epidemic of 1873 in the United States; Report of the Supervising Surgeon of the Marine-Hospital Service of the United States, for 1873-4, 2 vols.; Daily Bulletin of Weather Reports, 1872-3.
- Williams and Norgate, Messrs.:—*Antiquarisk Tidsskrift udgivet af det Kongelige Nordiske Oldskrift-Selskab, 1861-1863; Annaler for Nordisk Oldkyndighed og Historie udgivne af det Kongelige Nordiske Oldskrift-Selskab, 1861-3; Aarbøger for Nordisk Oldkyndighed og Historie, 1866; Tillæg til Aarbøger for Nordisk Oldkyndighed og Historie, 1866; Mémoires de la Société des Antiquaires du Nord, 1873-4.*
- Zoological Society of London:—Proceedings, 1875-6; Transactions, Vol. 9, parts 4, 5, 6, 7 and 8; Revised List of the Vertebrated Animals in the Zoological Gardens.

ENDING LIBRARIES.

This department fully maintains its usefulness. The issues during the year have increased by 16,353 volumes.

With the present staff and accommodation it is impossible to extend further the privileges of this part of the institution.

	This Year.			Last Year.		
	North.	South.	TOTAL.	North	South.	TOTAL.
Volumes lent	208,212	207,887	416,099	193,013	206,733	399,746
New Tickets issued.....	2,416	2,320	4,736	2,112	2,248	4,360
Tickets renewed.....	2,046	2,203	4,249	2,084	2,095	4,179
Tickets cancelled.....	2,211	2,115	4,326	2,102	2,002	4,104
Total readers on the books ..	4,435	4,530	8,965	4,162	4,355	8,517
Books lost or injured and paid for	57	35	92	34	38	72
Books lost.....	6	7	13	7	7	14
Volumes worn out—replaced....	531	536	1,067	617	498	1,115
Volumes worn out—withdrawn...	103	90	193	413	354	1,267
New volumes added	450	443	893	641	640	1,281
Total No. of vols. in the Libraries	20,857	21,178	42,035	20,482	21,146	41,628

Classification of Books Lent and Added, 1876 :—

	Volumes Lent.			Volumes Added.		
	North.	South.	TOTAL.	North.	South.	TOTAL.
Theology, Moral Philosophy, &c.	5,281	4,532	9,813	20	21	41
Nat. Philosophy and Mathematics	3,135	2,901	6,036	10	13	23
Natural History	2,438	2,334	4,772	28	22	50
Science and the Arts	7,219	7,045	14,264	26	22	48
History and Biography	9,453	9,224	18,677	52	49	101
Topography and Antiquities	1,202	1,294	2,496	6	7	13
Voyages and Travels	4,793	5,981	10,774	48	52	100
Miscellaneous Literature	13,431	15,783	29,214	79	82	161
Jurisprudence, Politics, &c.	271	373	644	3	3	6
Commerce and Political Economy	668	625	1,293	9	7	16
Education, Languages, Logic, &c.	2,261	2,070	4,331	8	8	16
Poetry and the Drama	1,617	1,815	3,432	6	9	15
Prose Fiction	155,980	153,445	309,425	155	147	302
Latin and Greek Classics	304	314	618	..	1	1
Books for the Blind	159	151	310	..	..	..
TOTAL	208,212	207,887	416,099	450	443	893

MUSEUM.

In the last report it was mentioned that Mr. R. Cholmondeley, of Conover Hall, Salop, had kindly invited the Committee to send a deputation on board the yacht "Argo," chartered by him for a scientific collecting expedition to the West Indies. This generous offer was gladly accepted, and the Rev. H. H. Higgins, accompanied by two assistants, Messrs. Chard and Woods, accompanied the expedition on their behalf. The yacht was absent about four months, and visited the Canary Islands, several of the West India Islands, and the Spanish Main, taking Philadelphia on the homeward voyage. The collections made by Mr. Higgins—particularly of fishes, insects, crustacea, shells, corals, and sponges—are extensive, and form a very valuable addition to the stores of the Museum.

Mr. Higgins has drawn up the following notice, which will be an interesting record of the results of the expedition :—

"The places visited were Madeira, Antigua, Barbuda, St. Kitt's, Guadaloupe, Dominica, Martinique, St. Vincent, Grenada, Trinidad, Pedernal, La Guayra, Caracas, Puerto Caballo, Tucacas, Santa Marta, Savonilla, Carthagen, Jamaica, Cuba, Vera Cruz, the Bahama Islands, and Philadelphia.

"Circumstances did not permit the use of the dredge in deep water, but it was frequently and successfully used at depths not exceeding sixty fathoms. Every opportunity was taken for the acquisition of specimens in all departments of Natural History, such as might be valuable additions to the collections in the

Liverpool Free Public Museum. In this work I have to record with satisfaction the active co-operation of my Assistants, Mr. John Chard and James Woods.

“The Shells, Crustacea, Echinoderms, and Plants (Mosses and Lichens) have been examined; but further time will be required for the determination of a considerable number of species supposed to be new to science or undescribed. The Insects, Corals, Annelides, Zoophytes, Polyzoa, and Sponges are being prepared for examination.

“A considerable number of interesting Fishes were obtained, and a few valuable animals, which died on board during the voyage, were presented to the Museum by Mr. Cholmondeley, the originator and director of the expedition.

“The series of specimens taken as a whole is an extensive one, including many rare and beautiful objects such as the Museum could not readily or in a short time, if indeed at all, have acquired by purchase. Even common objects assume a much greater scientific value when the circumstances and localities in which they were collected are accurately known.

“In order to render the collections, as far as may be, serviceable to natural science, it is most desirable that full lists of the species should be published with notes and localities, and in some cases with plates. Arrangements for this are in progress, and the subject in a more definite form will, I hope, shortly be submitted to the consideration of your Committee.”

STATISTICS.

The visitors to the Museum during the year have been as follow:—

	1874-5.	1875-6.	Increase.
Total Day Visitors.....	461,385	477,582	16,197
Weekly Average	8,872	9,010	138
Daily Average	2,166	2,211	45

The 18th of October, 1876, was the fifteenth anniversary of the opening of the Museum in the present building. During that time the total number of visitors amounted to 6,734,681, giving a yearly average of 448,978.

DONATIONS.

Thirty specimens of richly-variegated Marbles, cut and polished, from the Ancient Quarries recently discovered in Numidia by Signor Cavaliere Giovanni B. del Monte; presented by the Accademia Reale di Belle Arti, Carrara, through Signor Giovanni Fontana.

Eighty-two specimens of sixty-eight species of Fish, chiefly from the Thayer Expedition to Brazil and the voyage of the “Hassler;” presented by the Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, per Mr. Alexander Agassiz, in exchange.

Five specimens of Echinus from Bombay and other places ; presented by Staff Surgeon-Major S. Archer.

Specimens of Beetles and other Insects from Valdivia, Chili ; presented by Mr. Edward Bald.

A Reptilian Fossil Vertebra from the Isle of Wight ; a palmate form of Iron Pyrites (Sulphide of Iron) ; a specimen of Blende (Sulphide of Zinc), &c. ; presented by Mr. Alderman Bennett.

An Adder from Anglesea ; presented by Mr. H. Bennett.

A specimen of the Pomatorhine Skua Gull (*Stercorarius pomatorhinus*), shot at Hoylake ; presented by Mr. H. Brandreth.

A Giant Petrel (*Procellaria gigantea*) from the Southern Ocean ; presented by Mr. Walter Burnet.

Two small Trigger Fish (*Balistes*) from Suez ; presented by Mr. H. H. Calvert.

Nests of the Zebra Spider, from Madeira ; presented by the Honourable Lady Cust.

A fine stuffed specimen of a Crocodile, 12 feet in length, from West Africa ; a young Gorilla from the Gaboon ; and a Lizard and Snake from Loanda ; presented by Capt. Davis.

A large specimen of the Broad-Nosed Eel (*Anguilla latirostris*) from Knowsley ; presented by the Countess of Derby.

The Skeleton of an Ox ; presented by the Earl of Derby.

A specimen of Vendace (*Coregonus Willughbi*) from Keswick Lake ; presented by Mr. James Edmondson.

Specimens of Hooks and Baits for large Fish, made by the Aborigines of Australia from bones and polished shells ; presented by Mrs. Ford.

A young edible Turtle ; presented by Mr. William Gass.

Two specimens of a Fungus (*Sphaera Robertsi*) parasitic on the Caterpillar of a Butterfly, from Taupo, New Zealand ; presented by Rev. T. S. Grace.

A small living Turtle for the Aquarium ; presented by Mr. Henry Hawkins.

The upper Jaws and Teeth of a Sparoid (?) Fish from Alexandria ; a Zoophyte from Barcelona ; living specimens of small Molluscs (*Turritella*, *Venus*, *Astarte*, and *Scalavia*) from Gibraltar Bay ; three living Sea Horses from Malta ; a collection of Marine Specimens from Alexandria, Tripoli, and Gibraltar Bay ; collected and presented by Capt. Horsfall, S.S. "Canopus," Associate of the Literary and Philosophical Society of Liverpool.

A living Longicorn Beetle (*Astinomus cædilis*) from Garston; presented by Mr. J. Hough.

A specimen of Squilla from the Coast of Mexico (?); presented by Mr. Thomas Ibbotson.

Three Coal Fossils (*Stigmaria ficoides*) from Wigan; presented by Mr. J. H. Johnson.

Head and Horns of the Chiru, or Hodgson's Antelope; of the Oorial, or Wild Sheep of the Punjab; of the Burhel, or Blue Wild Sheep, and of the Himalayan Ibex; specimens of Bobac Marmot, adult and young; of *Lagomys*; of the Flying Squirrel, &c., from Cachmere and Thibet; collected and presented by Mr. Hugh Heywood Jones.

Seven specimens of Marine Sponges from Cape Palmas, including a new species (*Higginsia Liberiensis*); a rare Crab (*Lambrus*) from China; the cast shell of a rare Marine Crustacean; seven specimens of Sea Urchins and other Echinoderms from Suez; presented by Mr. R. J. Keen.

A Paradoxure Genet from Java; a Marmot and a Heron from Colorado; and a pair of Grouse (*Tetrao*) from Hakodati; the skin of an Ibex from Cachmere, and a Squirrel from the Rocky Mountains; Skulls, Horns, and Skins of Ibex from the Himalayas; of the Kemas, or Wild Goat (*Capra Waryato*) from the Neilgherries; three Skulls of Bears, &c.; collected and presented by Mr. St. George Littledale.

The Skull of a Bear, base of Skull of a Whale, two cervical Vertebrae of Whales, and Jaw and Femur of an Ox, lately found in the new North Docks Excavations, Bootle; presented by Mr. George Fosbery Lyster, C.E., on behalf of the Mersey Dock and Harbour Board.

A Fossil Coral from a Railway Cutting at Cwyle, near Wrexham; presented by Mr. A. G. Macgregor.

Eighty-four select specimens of thirty species of Shells; presented by Mr. F. P. Marrat.

A common Snake; presented by Mr. J. Miller.

Specimens of Shells from Newfoundland; collected and presented by Mr. E. L. Moore, H.M. Customs, Newfoundland.

A very young specimen of Snapping Turtle (*Chelydra serpentina*) from Minnesota; presented by Dr. Nevins.

Fifteen specimens of seven species of Indian Snakes; collected, named, and presented by Surgeon-Major E. Nicholson.

A Dog's Skull from a Grave at Lake Imoukook, Behring's Straits, 1852; presented by Fleet-Surgeon J. Linton Palmer, R.N.

A fine Sponge (*Esperia macilenta?*) from Savanilla; two Black Sponges (*Luffaria fistularis*) from Port-au-Prince; a Starfish (*Astropecten*); a Crab; a Larval Nest of a Lepidopterous (?) Insect; the Head of a Pelican (*Pelecanus fuscus*); a Fish Parasite (*Cymothoe cestrum?*); the Carapace of a Spinous Crab from the West Indies; a group of Black Sponges (*Luffaria fistularis*), with other species attached, from Hayti; two Sponges, of the genus *Esperia*, from the harbour of Savanilla; collected and presented by Capt. Perry, Associate of the Literary and Philosophical Society of Liverpool.

A specimen of Schlickensides in Sulphuret of Iron from the North of Spain; presented by Mr. C. Potter.

A Spiny Lizard (*Moloch horridus*) from Port Peire, South Australia; presented by Capt. J. G. Potter.

The Skin of a Manis (*Manis multiscutata*) from Sierra Leone, and specimens of variously-carved Pipes from Ashantee; presented by Messrs. Radcliffe and Durant.

A Gold-Crested Penguin (*Eudyptes chrysocome*) from Crozet Island; presented by Capt. Rands, ship "Gadshill."

A series of specimens illustrating the Post-Glacial Geology of Lancashire and Cheshire, and a series illustrating the Glacial Drift Deposits of the same counties and of other localities in Great Britain and Ireland; collected, arranged, and presented by Mr. T. Mellard Reade, C.E., F.G.S.

Specimens of the American Potatoe Bug (*Doryphora decemlineata*) from Alleghany Co., Pennsylvania; presented by Mr. William Roberts.

A collection of Marine Algæ from the Isle of Man, and a fine specimen of the Crested Porcupine (*Hystrix cristata*); presented by Mr. Hugh Shimmin.

Four large specimens of *Veella* retaining natural colour; specimens of *Janthina*; specimens of *Balanus* taken from a boat's bottom, River Gambia, after twenty-one days' immersion; twenty specimens of Mangrove Oysters from West Africa, with *Balani* attached; specimens of Shells, Crustacea, Zoophytes, &c., from Bombay harbour, Elephanta Island, Suez Canal, and Gibraltar Bay; collected and presented by Capt. Slack, Associate of the Literary and Philosophical Society of Liverpool.

Ten specimens of *Lepidodendron* and other Coal Plants from the Silkstone Vein, Clay Cross, Derbyshire; a specimen of Oil Shale from Italy, and its product; and one of Ferruginous Cobalt Ore (Oxide of Cobalt) from Cwm Mine; presented by Mr. Alexander Sparrow.

A specimen of Vendace (*Coregonus Willughbii*) from Lochmaben; presented by Mr. W. F. Steele.

A Leather Girdle made of Capybara skin; specimens of Tinamoo, Chimango, and other Eggs; and a remarkable Siluroid Fish of the genus *Plecostomus*, from Uruguay; presented by Mr. W. P. Steer.

A Vertebra of a Whale from the Excavations for the new North Docks, Bootle; presented by Mr. A. T. Squarey.

Three specimens of Moth (*Thysania agrippina*) from Brazil; presented by Mr. W. A. Taylor.

Specimens of Reptiles, &c., from West Africa; collected and presented by Mr. David Tinning.

A Mute Swan (*Cygnus olor*), shot on the Mersey; presented by Mr. G. F. Williams.

Two young Alligators and two Horned Frogs (*Phrynosoma cornubica*); presented by Capt. Winder.

A Flattened Stem of *Stigmaria ficoides* from Pemberton Coal; presented by Mr. J. Worsnop.

PURCHASES.

The principal purchases have been as follow:—

A Pallas's Ibex, two Saiga Antelopes, a Great Ant-Eater and twelve other Mammals; also Horns of Caribou, Reindeer, and Ibex.

A pair of Tooth-billed Pigeons, or Dodlets (*Didunculus strigirostris*) from the Samoan Islands; a Six-shafted Bird of Paradise (*Parotia sexpennis*) from New Guinea; a pair of Prince Victor's Fruit-Pigeons (*Chrysenas Victor*) from the Fiji Islands; two Dwarf Parrots; three Hornbills; and Skeletons of two species of Apteryx.

Fifty-eight Skulls of Mammals, Birds, Reptiles, and Fish.

Seventy-seven specimens of fifty-three species of Shells.

Four Sponges, and a collection of Microscopical Slides of Spicules of Algerian, Adriatic, and other Sponges.

A specimen of *Orthoceras*, three feet ten inches in length, from the Millstone Grit near Oswestry; six polished sections of Mammoth Teeth; and twelve other Fossils.

MAYER COLLECTION.

The riches of this collection are being gradually developed by the process of cataloguing by Mr. Gatty, the Curator, but a long time must elapse before any adequate idea can be formed of its extent and value.

The following additions have been made during the year :—

A Silver Crown Piece of Frederic III., of Denmark and Norway, 1656 ; presented by Mrs. Folger Clausen, Copenhagen, per Mr. Thomas Lloyd Bowen.

Four small Palæolithic Flint Implements, found at Canterbury ; presented by Mr. John Brent.

A Burmese Fishing Cage ; presented by Mr. Walter Burnet.

Part of a Roman Glass Bracelet, found at Savona, Dalmatia ; part of a White Roman Glass, with female head in relief, Yellow Rhodian Glass Bottle, &c. ; presented by the Rev. Greville J. Chester.

An ancient Mask, found in a mound at Otumba, Mexico ; presented by Mr. W. S. Crawley.

A Haucho from Ancon, Peru ; presented by Mr. Philip Falla.

Five specimens of old Venetian Glass and four modern Sanscrit MSS. ; presented by Mr. A. W. Franks, F.S.A.

Cup and Saucer of white Porcelain, decorated with green and gold ; presented by Miss Gardner.

A Papal Document in MS. on parchment, with leaden Seal of Pope Clement XI. ; and fourteen Bronze Papal Medals ; presented by Mr. C. T. Gatty.

A Roman two-handed Amphora of red earthenware, found at Pompeii ; presented by Mr. T. Hardman.

Six Flint Arrow Heads from Tennessee ; presented by Rev. H. A. Jones.

The Copper Plates of the "Inventorium Sepulchrale," and 370 Woodblocks for the same volume and for other purposes ; two Copper Plates bearing Portraits ; Six Metal Dies ; and 200 Wax Seals from Ancient European Deeds ; presented by Mr. Joseph Mayer, F.S.A.

Two printed Russian Books, brought from the Crimea during the War ; presented by Mr. J. H. B. Parsons.

Two large Blue and White Porcelain Jugs, made by Seth Pennington, of Shaw's Brow ; presented by Mr. Charles Pennington.

A large Earthenware Jug, manufactured at the Herculaneum Pottery, Liverpool, with painted flowers and symbols, inscribed "Success to the Cambrian Society." "The Town and Trade of Liverpool, H. R. 1813 ;" presented by the Cambrian Society of Liverpool, per Mr. W. H. Richards.

A large early Greek Pottery Vase, from Cyprus and a Staffordshire brown glazed Tyg, found at Garston, 1871 ; presented by Mr. G. Sinclair Robertson.

A War Club, Three Spears, Bows and Arrows, from Malayta, Solomon Islands,

brought to Brisbane, Australia, October, 1875, by John Renton, a white man eight years a prisoner on the Island; presented by Capt. Wm. Strickland, Ship "Ophelia," per Messrs. C. T. Bowring & Co.

An exact Copy, made by Mr. Joseph Johnson, Goldsmith, Dublin, of the Ancient Silver Chalice found at Ardagh, County Limerick, in 1868, and described by the Earl of Dunraven in the *Archæologia*, Vol. 24; also a Bronze Chalice or Cup, found with the same; presented by Mr. Henry Yates Thompson.

A Native Bellows, Throwing Knife, Double Bells, Two Paddles, and Three Swords, from the River Ogowe and other parts of West Africa; presented by Mr. R. B. N. Walker, F.R.G.S., Corresponding Member of the Literary and Philosophical Society of Liverpool.

An Indian Vegetable Blanket, from Ecuador; presented by Mr. W. Newall Watson.

Two Bronze Medals commemorating the French Revolution, and dated 1792; and one commemorating the removal of Napoleon's remains from St. Helena to Paris; presented by Mr. S. A. Thompson Yates.

PURCHASES.

Specimens of Antique Ivories, and two Rhodian Vessels of Glass.

Thirty specimens of old Venetian and German Glass.

A Glass Scarabæus of late Egyptian work.

Eleven Arabic Glass Coins, and a small Assyrian Hematite Weight.

A small Antique Greek Seated Figure, from Athens.

A Chinese Cloisonné Enamelled Tray.

An Italian Carved Ivory Male Figure, after the Antique.

An English Porcelain Figure of Milton.

ART DEPARTMENT.

The Exhibition of this year was fully equal in the average of pictures to the previous ones, but the number of pictures sold and the amount realised was not equal to the previous year. This is easily to be accounted for from the depression of trade. The financial results to the Institution have, however, been fully equal to any which have gone before.

The number of Pictures and other works exhibited.....	1,186
Number of Pictures sold	255
Amount realised by Sales	£8,803 10 0
Season tickets.....	1,161 = £221 1 0
Amount received, exclusive of sales	£1,959 10 0

PURCHASES.

Out of the fund accumulated from the profits of the former Exhibitions, the following Pictures and Works of Art were purchased on behalf of the Corporation :—

OIL PAINTINGS—

“Richard II. Resigning the Crown to Bolingbroke ;” by Sir John Gilbert, R.A.

“The Ancestor on the Tapestry ;” by Haynes Williams.

“Showery Weather ;” by Joseph Knight.

WATER COLOURS—

“Dinner Time at the Quarries—Purbeck ;” by A. D. Fripp.

Two Water Colour Drawings of Scenery near Bettws-y-Coed, by J. D. Watson, have also been purchased.

A Water Colour, “The Last Ray of Evening—Shannon Bridge,” by Albert Hartland, was purchased from the Autumn Exhibition by the Science and Art Department, South Kensington, for that Museum.

DONATIONS.

The following donations have been made to this department :—

A Marble Bust of Her Majesty the Queen, by Count Gleichen ; presented by Mr. Councillor Pearson.

Marble Busts of H.R.H. the Duke of Edinburgh and H.I. and R.H. the Duchess of Edinburgh, by Count Gleichen ; presented by the Mayor, Mr. Alderman Walker.

A reduced copy in Marble, by Fraccorelli, of the Venus de Milo, from the original in the Louvre ; presented, for the Walker Art Gallery, by Mr. James Harrison.

A Marble Bust of John Finch, Jun., by J. E. Jones ; presented by Mr. John Yeats, LL.D., Chepstow.

A Terra Cotta Bust of John Everett Millais, R.A., by J. E. Boehm, 1871 ; presented by Mr. A. T. Squarey.

A Plaster Bust of the late Dr. Traill, by S. Gibson ; presented by the Rev. Gilbert Sandbach.

A Plaster Bust of Charles Dickens, by Giovanni Fontana ; presented by Signor Fontana.

Three large Oil Paintings, presented by Mr. J. G. Woodhouse, viz. :—“Joseph Taken into Egypt,” by Luca Giordano ; “Joseph Embracing his Father,” by the same ; and “Coriolanus Taking Leave of his Wife and Children,” Artist unknown.

A Water Colour Painting, "By the Side of the Bog of Allan," by Albert Hartland, from the Liverpool Autumn Exhibition, 1876; presented by Mr. James Harrison.

An Oil Painting, "Interior of a Welsh Cottage," by David Bates; presented by Mr. A. M. Jones.

LOANS.

During the year the Committee, with the sanction of the Council, made Loans of Pictures and Works of Art to the Centennial Exhibition at Philadelphia; to the Art Exhibition at Wrexham; and to the Exhibition of Illuminated MSS. by the Liverpool Art Club.

To the Centennial Exhibition at Philadelphia:—

"Julian the Apostate presiding at a Council of Sectaries," Oil Painting, by E. Armitage, R.A.; presented to the Corporation by Mr. Alderman Bennett, J.P.

"The Fall of Rienzi," Oil Painting, by F. W. W. Topham.

To the Art Treasures Exhibition of North Wales and Border Counties, held at Wrexham:—

Pictures by E. J. Poynter, R.A.; Richard Ansdell, R.A.; J. W. Oakes, A.R.A.; Val. Prinsep, Mrs. Anderson, and B. Lindholm.

Five Etruscan Gold Ornaments and four other Works of Art, from the Mayer Collection.

To the Liverpool Art Club:—

Twenty-eight Illuminated MSS., chiefly from the Mayer Collection.

LECTURES.

The Eleventh Course of Free Lectures, forty in number, were delivered in January, February, and March, 1876, as follows:—

One Lecture on Michael Angelo, Sculptor, Painter, Poet, and Patriot, by Mr. Councillor P. H. Rathbone.

Two Lectures, on David Cox, and on Thrift, by Mr. B. H. Grindley.

One Lecture on Figures and Numeration, by Mr. Councillor J. A. Picton, J.P., F.S.A., Chairman of the Library, Museum, and Arts Committee.

Two Lectures on the Political and Social History of England, by Mr. J. Birchall.

Five Lectures on Vocal Music, by Mr. J. Veacock.

One Lecture on Photography, by Mr. W. Keith.

Two Lectures on Antiquities, by Mr. C. T. Gatty.

Two Lectures on Modern Progress, and Never Despair, by the Rev. H. S. Brown.

Six Lectures on Water, and the Chemistry of Pigments, by Mr. E. Davies.

One Lecture on Egypt, India, and California, by Mr. Councillor J. A. Forrest.

Two Lectures on Assyrian Discovery, by the Rev. W. H. Boscawen.

Four Lectures on Art, by Mr. W. J. Bishop, Head Master of the Government School of Art, Northern Division.

Three Lectures on Navigation, and Nautical Astronomy, by Mr. J. Gill.

Two Lectures on the Art of Engraving, by Mr. John Finnie, Head Master of the Government School of Art, Southern Division.

One Lecture on the Rise and Progress of Water Colour Painting, by Mr. W. L. Kerry, Teacher of Painting, &c., Royal Institution, Liverpool.

One Lecture on Arctic Exploration, by Mr. Councillor W. B. Forwood, J.P., F.S.S.

Four Readings, by Mr. Frederick Kempster, M.A.

Third Course of Free French Lectures, by Professor J. D. Gaillard.

The School of Science has had the usual accommodation during its Annual Session.

The Courses of Lectures delivered were as follows:—

Practical Plane and Solid Geometry; Machine Construction and Drawing. Teacher, Mr. A. J. Briant.

General Biology and Animal Physiology. Teacher, G. Shearer, M.D. (Univ. Edin.)

Navigation and Nautical Astronomy. By Mr. James Gill.

Geology and Mineralogy. Teacher, Mr. Wm. Semmons, F.G.S.

The various examinations, conducted under the management of the Universities of Oxford and Cambridge and the Civil Service, have taken place as usual.

During the meeting of the Social Science Congress in October, the rooms were made use of and a very interesting *soirée* was given to the members.

Signed, on behalf of the Committee,

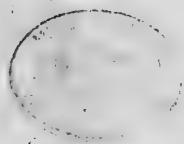
J. A. PICTON,

SECRETARY

CHAIRMAN.

15 JUL 1898



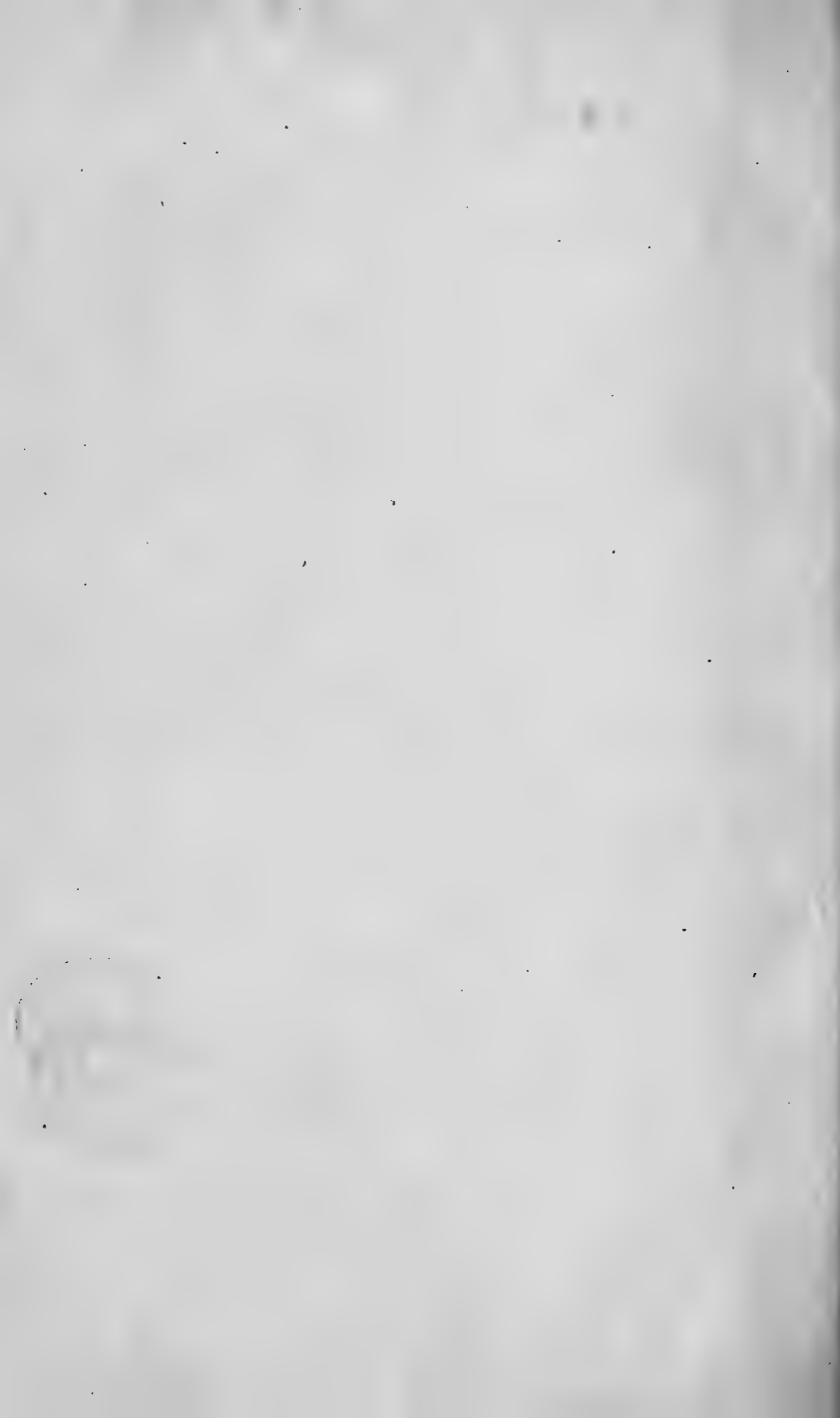


TWENTY-FIFTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC LIBRARY,
MUSEUM,
AND
WALKER ART GALLERY,
OF THE
BOROUGH OF LIVERPOOL.



LIVERPOOL:
HENRY GREENWOOD, PRINTER, 32, CASTLE STREET.

1878.



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COMMITTEE AND OFFICERS

FOR THE YEARS 1877-78.

Committee.

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E. SAMUELSON, DEPUTY-CHAIRMAN.

A. B. FORWOOD, MAYOR.

W. BENNETT,
C. T. BOWRING,
STEWART H. BROWN,
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B. HALL,
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T. HOLDER,
R. D. HOLT,
A. H. LEWIS,
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Chief Librarian.

PETER COWELL.

Sub-Librarian.

THOMAS FORMBY.

Superintendent of the Lending Libraries.

HENRY GRICE.

Curator of the Museum.

THOMAS J. MOORE.

Assistant Curator, Mayer Collection.

C. T. GATTY.

Curator of the Walker Art Gallery.

C. DYALL.

R E P O R T .

THE most important event during the last year has been the opening of the Walker Art Gallery, which took place on the 6th September last. The day was in every way a memorable one, from the interest displayed by all classes of the community, and the success which attended the celebration.

The proceedings were commenced by a procession of the Trades, with banners and bands of music, mustering about 8,000, which paraded the principal streets, terminating in front of the Gallery. The key of the building was presented by Alderman Walker to Mr. John Weightman, chairman of the Finance Committee, on behalf of the Corporation. The Right Hon. the Earl of Derby, who made a suitable address, was then requested to open the Gallery, in which the seventh annual Exhibition of Paintings had been arranged on the upper floor, and a collection of other objects of Art on the lower storey. His Lordship then proceeded to unveil the first picture of the permanent collection hung in the building, being the original cartoon by E. M. Ward, Esq., R.A., of the painting in the corridor of the House of Commons representing the Escape of Charles the Second after the Battle of Worcester.

Previous to the opening, an illuminated address and a handsome casket were presented to Alderman Walker, the result of a public subscription, out of which fund a commission has also been given to Mr. Warrington Wood for a marble statue of the donor.

A banquet was subsequently held in St. George's Hall, the Earl of Derby in the chair, attended by a large number of guests. In the evening an exhibition of fireworks was displayed in Wavertree Park, witnessed by many thousands of spectators. The day was fine, and notwithstanding the extraordinarily crowded state of the thoroughfares everything passed off without the slightest accident.

Since the ceremony Her Majesty has been graciously pleased to confer the honour of knighthood on Alderman—now Sir Andrew Barclay Walker.

In addition to the building of the Art Gallery the donor has presented three marble statues to decorate the front, from the chisel of Mr. Warrington Wood, of Rome. Raffaele representing Painting, and Michael Angelo representing Sculpture, are placed on each side of the portico, whilst an allegorical statue of Liverpool crowns the summit of the pediment. The bas-reliefs are not yet completed but are in progress. They are intended to represent several events in the history of the town, viz. :—

1. The granting of the first charter by King John, A.D. 1207.
2. The embarkation of King William III. and his army in 1690.
3. The visit of Queen Victoria in 1851.
4. The laying of the foundation stone of the Walker Art Gallery by the Duke of Edinburgh.

The Council have voted a sum of money to improve and give an architectural character to the open area in front, formerly Islington Market. A handsome cast-iron bronzed fountain has been erected immediately opposite the portico of the Gallery, presented by Col. Steble, at a cost of £1,000. When these improvements are completed, the esplanade with the noble buildings surrounding it will constitute one of the finest *Places* in the kingdom.

The New Reading Room, by attaching his name to which the Council have honoured the chairman, is now roofed in and the dome completed, forming a suitable link of connection between the Library and the Art Gallery. The space under the floor, which it was at first contemplated to form into an aquarium, it is now intended to convert into a lecture room, which will form a valuable addition to the Institution.

REFERENCE LIBRARY.

This continues to increase in usefulness and in public estimation. The issues during the last year have been the largest since the formation

of the Library. The number of readers is frequently greater than the accommodation, though large, of the present rooms. The completion of the New Reading Room will give the means of classifying the readers with advantage. The demand for students' tickets, giving the holders facilities for a course of study, has been large and increasing. Care is taken that this privilege shall not be abused, and there is every reason to believe that it is found of great advantage to clergymen, preceptors, science students, authors, and artists.

The third supplementary Catalogue is now passing through the press, containing the books received up to the 31st December last.

According to a plan suggested by Mr. Cowell, the Librarian, the list of the books received is printed weekly, and entered in the catalogue alphabetically, so that every book will be found in its proper place down to the latest volume received. This plan, it is believed, has not hitherto been adopted by any other public library. It is unnecessary to point out the great facility and saving of time which it provides.

During the past year a Conference was held in London of Librarians from all parts of the kingdom, attended on behalf of this Institution by Mr. P. Cowell, Chief Librarian. Many important subjects were discussed with advantage, and it is intended that this Conference shall be annual.

The following are the statistics in this department:—

TABLE I.—Showing the total issues in the various classes, together with the daily average:—

Classification.	Volumes Issued.	Daily Average.
Theology, Morals, &c.	22,002	79
Natural Philosophy, Astronomy, &c.	12,447	45
Natural History	6,972	25
Science and the Arts	26,959	97
History and Biography	27,014	97
Topography and Antiquities.....	6,177	22
Voyages and Travels	14,512	52
Miscellaneous Literature (principally Collected Works, Magazines, &c.)	125,127	449
Jurisprudence, Law, and Politics	3,255	12
Commerce, Political Economy, and Statistics	2,715	10
Education and Language	6,706	24
Poetry and Dramatic Literature	17,524	63
Prose Fiction	170,531	608
Latin and Greek Classics and Translations	4,051	15
Heraldry, Encyclopædias, and Works of Reference.....	7,593	27
Total	453,585	1,625

TABLE II.—Showing the issue of weekly periodicals (Directories, Dictionaries, &c.), classified according to their character. Quarterly and Monthly Magazines, &c., are reckoned as Books, and included in TABLE I. :—

Classification.	Issues.	Daily Average.
Natural Philosophy	3,189	11
Natural History	3,466	12
Science and the Arts	14,029	51
Miscellaneous Literature (principally illustrated and literary periodicals)	123,595	443
Law and Politics	780	3
Commerce and Political Economy	548	2
Directories and Dictionaries	11,875	42
Total.....	157,482	564

The patents consulted number 11,557 ; average, 41 per day.

TABLE III.—Showing the new books added, together with the totals of each class of literature now in the Library.

Classification.	Volumes added.	Total No. in the Library.
Theology, Morals, &c.	241	5,237
Natural Philosophy, Astronomy, &c.	51	1,528
Natural History	174	3,667
Science and the Arts	336	7,857
History and Biography	223	8,821
Topography and Antiquities	158	3,150
Voyages and Travels	110	3,840
Miscellaneous Literature (principally Collected Works, Magazines, &c.)	696	13,579
Jurisprudence, Law, and Politics	104	5,384
Commerce, Political Economy, and Statistics	29	689
Education and Language	29	1,082
Poetry and Dramatic Literature	127	2,904
Prose Fiction	26	5,257
Latin and Greek Classics and Translations	28	485
Heraldry, Encyclopædias, and Works of Reference	59	2,057
Total	2,391	65,537

It may be interesting to give in a synoptical form the Reviews and other Periodicals taken :—

QUARTERLY.

Annales des Sciences Naturelles
 Archæologia Cambrensis
 Archæological Journal
 British Quarterly Review
 Dublin Review
 Edinburgh Review
 Ibis
 Journal of Anatomy
 Journal of the British Archæological Association
 Journal of Microscopical Science
 Journal of the Royal Agricultural Society
 Journal of the Society of Antiquaries
 Journal für Ornithologie
 Journal of the Statistical Society
 Life Boat
 London Quarterly Review

Mind, The
 Navy List
 New Quarterly Magazine
 North American Review
 Popular Science Review
 Quarterly Journal of the Geological Society
 Quarterly Journal of Science
 Quarterly Review
 Revue Celtique
 Revue et Magasin de Zoologie
 Stray Feathers
 Theological Review
 Traethodydd
 Westminster Review
 Zeitschrift für Deutsche Philologie.

MONTHLY.

All the Year Round
Annals and Magazine of Natural History
Argosy
Army List
Art Journal
Atlantic Monthly
Banker's Magazine
Belgravia
Blackwood's Magazine
Cassell's Magazine
Chambers's Journal
Church of England Magazine
Congregationalist
Contemporary Review
Continental Railway Guide
Copes's Tobacco Plant
Cornhill Magazine
Daheim
Day of Rest
Dietetic Reformer
Dublin University Magazine
Educational Guide
Educational Times
Englishwoman's Review
Financial Reformer
Fireside, The
Florist and Pomologist
Fortnightly Review
Fraser's Magazine
Gazette des Beaux Arts
Gartenlaube, Die
Geographical Magazine
Geological Magazine
Gentleman's Magazine
Good Words
Homœopathic World
Journal of the Chemical Society
Journal of Horticulture
Leisure Hour
London Society
Macmillan's Magazine
Month, The
Monthly Microscopical Journal
Musical Times
Nautical Magazine
Nineteenth Century
Once a Week
Orchestra
Portfolio
Quiver
Railway Guide
Revue Archéologique
Revue Britannique
Revue Chrétienne
Shipwrecked Mariner
St. James's Magazine
Shorthand Magazine
Shorthand Times
Sunday at Home
Sunday Magazine
Sunday Review
Temple Bar
Tinsley's Magazine

MONTHLY—(Continued.)

Truthseeker
United Service Journal
Yachting Magazine
Zoologist.

FORTNIGHTLY.

Gazette des Architectes
Revue des Deux Mondes
Unsere Zeit.

WEEKLY.

Academy
Athenæum
Architect
British Architect
Broad Arrow
Builder
Builders' Weekly Reporter
Building News
Cambridge University Reporter
Capital and Labour
Carpenter and Builder
Chemical News
Civilian
Colonies, The
Comptes Rendus
Economist
Engineer
Engineering
Engineering and Building Times
English Mechanic
Era
Examiner
Fun (2 copies)
Gardeners' Chronicle
Illustrated London News
Jewish Chronicle
Journal of Gaslighting, &c.
Journal of the Society of Arts
Judy
Lancet
Land and Water
Law Times
Mayfair
Mining Journal
Nature
Naval and Military Gazette
Notes and Queries
Oxford University Reporter
Pharmaceutical Journal
Pictorial World
Porcupine
Public Opinion
Punch
Saturday Review (2 copies)
Scientific American
Spectator (2 copies)
Tatler
Volunteer Service Gazette
Vanity Fair
Weekly Notes
World.

DONATIONS DURING 1876-7.

- Agassiz, Alexander (the Author):—North American Starfishes.
- Australian Government, The:—Statistical Register of Victoria for 1875; Victorian Year Book for 1875, by Henry H. Hayter; Mineral Statistics of New South Wales.
- Ball, R. S. (the Author):—Experimental Mechanics.
- British Architects, Institute of:—Sessional Papers, 1868-75, 13 vols.
- British Association, The:—Report of the Forty-fifth Meeting, 1875.
- British Association, Local Committee, Glasgow:—Manufactures of the West of Scotland; Fauna and Flora of the West of Scotland; Catalogue of the Western Scottish Fossils.
- Castellain, Alfred, Esq.:—Journal of the Royal Agricultural Society, vol. 13.
- Civil Engineers, The Institution of:—Minutes of Proceedings, vols. 45, 46, 47, and 48.
- Clermont, Lord:—Supplement to the Life of Sir J. Fortesque.
- Cobden Club:—Budgets of Various Countries, by J. W. Probyn; Essays on Contracts for Land, by the Duke of Argyll.
- Colonial Institute of London:—Proceedings, vol. 8.
- Cooke, M. C., M.A. (the Author):—British Fungi, 2 vols.; Plain Account of British Fungi; Grevillea, a Record of Cryptogamic Botany, 2 vols.
- Dawbarn, W., Esq.:—Rousseau, by Thomas Craddock, B.A.
- Derby, The Right Hon. the Earl of:—Compendious Examination of Complaynts, edited by F. J. Furnivall.
- Douthwaite, W. R. (the Author):—History of Gray's Inn.
- Dwerryhouse, W., Esq.:—Pennsylvania, Dutch, and Other Essays (6 copies).
- Eastern Question Association:—Papers on the Eastern Question, 7 parts.
- Fulton, R. E. (the Publisher):—Commercial Directory for 1877.
- Gleiwitz, F. A., Esq.:—Jewish Ritual.
- Gordelier, Rev. Charles (the Author):—Fourteen Sermons.
- Halliwell-Phillips, J. O., Esq.:—Illustrations of the Life of Shakespeare; Catalogue of Shakespeare Engravings; Catalogue of the Library of J. O. Halliwell-Phillips; Catalogue of Shakespeare—Study Books; Hand List of Shakespearian Collections.
- Harris, George, D.D. (the Author):—Treatise on Man, 2 vols.; Theory of the Arts, 2 vols.; Civilization Considered as a Science.
- Harvard College, U.S.A., Museum of Comparative Zoology:—Insect Deformities, by Dr. H. A. Hagen; American Bisons, by J. A. Allen; Catalogue of the Museum of Zoology; Bulletin of Harvard College, 6 parts.
- Harvey, James, Esq. (the Author):—Paper Money.
- Heywood, James, M.A. (the Editor):—The Primæval World of Switzerland, by Prof. Heer.
- Historic Society of Lancashire and Cheshire:—Transactions, vols. 3 and 4.
- Jervis, W. P., Esq.:—Le Specie dei Cotoni, 2 vols.; Manuale delle Machine il Cotone; Prima Esposizione dei Cotoni Italiane; The Mineral Resources of Central Italy, 2 vols.; La Coltivazione del Cotoni in Italia.
- Lister, James, Jun. :—The Life of David, by Rev. T. Barber, M.A.
- Liverpool Literary and Philosophical Society:—Proceedings, vol. 30.
- Liverpool Polytechnic Society:—Journal of the, 1874-5, 2 vols.
- Liverpool School Board:—Proceedings, 1875-6.
- Liverpool Town Council:—Proceedings, 1875-6.
- Manchester Statistical Society:—Transactions, 1875-6.
- Mayer, Joseph, F.S.A. (the Author):—Early Exhibitions of Art in Liverpool.
- Mechanical Engineers, Institution of:—Proceedings, 1875-6; and General Index, from 1847 to 1873.
- Michell, Nicholas (the Author):—Ruins of Many Lands; Famous Women and Heroes; The Immortals; London in Light and Darkness; Pleasure; The Poetry of Creation; Sibyl of Cornwall.
- Palmer, Ellen (the Authoress):—Heroes of Ancient Greece.
- Patents, The Commissioners of, London:—Specification of Patents and Indexes, 1876-7.
- Pennsylvania Board of Charities:—7th Annual Report.
- Picton, J. A., Esq., F.S.A.:—Buxtorfii (Johannis) Lexicon Chaldaicum
- Pitman, Isaac, Esq. (the Editor):—Phonetic Journal, vol. 35.
- Science and Art Department, South Kensington:—Persian Art, by Major R. M. Smith, R.E.; Manual of Design, by Gilbert Redgrave; Ancient and Modern Furniture, by J. H. Pollen.
- Scotland, Society of Antiquaries of:—Proceedings, vol. 11, part 2.
- Shimmin, H., Esq. (the Publisher):—Trading Life in Africa, by John Whitford, F.G.S.
- Shoolbred, J. N., Esq., B.A. (the Author):—The River Mersey and its Estuary.
- Smithsonian Institution, The:—Contributions to Knowledge, vols. 20, 21, and 22; Annual Report of the Board of Regents.

DONATIONS.—(Continued.)

Social Science Association :— Local Government Directory for 1876; Transactions for 1876.
 Spon, E. & F. N. (the Publishers):— Engineers' Book of Prices for 1876-7 and 1877-8, 2 vols.
 Stoddart, N., Esq. :—Financial Position of Railways, by H. Ayres.
 Tartt, W. M., Esq. (the Author):— Essays on Some Modern Works, chiefly Biographical, 2 vols.
 United States Government :—United

States Coast Survey for 1869-70, 2 vols.; 1871-3, 3 vols., Astronomical Observations during 1874; Voyage of the "Polaris."
 Victoria, Royal Society of :—Transactions, vol. 12.
 Wrexham Art Treasures Exhibition :— Catalogue of the North Wales Art Treasures Exhibition.
 Zoological Society of London :—Proceedings, vol. 9, parts 9 and 10; Transactions 1875-6.

LENDING LIBRARIES.

The proceedings in this department call for no special remark. The largest proportion of the issues are of light literature, but care is taken that it shall be of a healthy, moral tone, and whilst giving the freest scope to every school of thought, that nothing shall be circulated of an offensive or doubtful character.

	This Year.			Last Year.		
	North.	South.	TOTAL.	North	South.	TOTAL.
Volumes lent	200,720	227,800	428,520	208,212	207,887	416,099
New Tickets issued	2,461	2,613	5,074	2,416	2,320	4,736
Tickets renewed	2,194	2,294	4,491	2,046	2,203	4,249
Tickets cancelled	2,055	1,978	4,033	2,211	2,115	4,326
Total readers on the books	4,628	4,899	9,527	4,435	4,530	8,965
Books lost or injured, and paid for	32	46	78	57	35	92
Books lost	6	7	13	6	7	13
Volumes worn out—replaced	597	722	1,319	531	536	1,067
Volumes worn out—withdrawn	254	160	414	103	90	193
New volumes added	437	423	860	450	443	893
Total No. of vols. in the Libraries	21,040	21,441	42,481	20,857	21,178	42,035

Classification of Volumes Lent and Added, 1877 :—

	Volumes Lent.			Volumes Added.		
	North.	South.	TOTAL.	North.	South.	TOTAL.
Theology, Moral Philosophy, &c.	4,898	4,893	9,791	47	23	70
Nat. Philosophy and Mathematics	3,245	2,927	6,172	6	7	13
Natural History	2,011	2,786	4,797	9	10	19
Science and the Arts	7,661	8,003	15,664	30	40	70
History and Biography	9,577	10,966	20,543	68	68	136
Topography and Antiquities	1,232	1,321	2,553	7	6	13
Voyages and Travels	4,712	6,027	10,739	37	37	74
Miscellaneous Literature	13,762	15,868	29,630	100	100	200
Jurisprudence, Politics, &c.	274	302	576	4	5	9
Commerce and Political Economy	589	715	1,304	4	3	7
Education, Languages, Logic, &c.	2,404	2,460	4,864	4	3	7
Poetry and the Drama	1,600	2,323	3,923	9	7	16
Prose Fiction	148,240	168,775	317,015	102	108	210
Latin and Greek Classics	410	312	722	..	..	..
Books for the Blind	105	122	227	10	6	16
TOTAL	200,720	227,800	428,520	437	423	860

MUSEUM.

In last year's Report mention was made of the "Argo" Expedition to the West Indies.

During the past year a volume has been published, entitled *Notes of a Field Naturalist in the Western Tropics*, by the Rev. H. H. Higgins, who accompanied Mr. Cholmondeley on behalf of this Committee, giving a very interesting account of the results.

Professor Alexander Agassiz, Curator and Trustee of the Museum of Comparative Zoology at Harvard College, Massachusetts, spent two days at the Museum, in February, examining the collection of Sea Urchins, Starfishes, &c.; and was entertained at a special lunch by the Mayor and at a dinner by the Liverpool Art Club, both given in honour of his visit and of the friendly relations existing between the two Museums.

Dr. Franz Steindachner, Director of the Imperial Royal Zoological Museum of Vienna, paid a visit to the Museum in August, and spent four days in the examination of the collection of Fishes.

A very important accession has been made during the year to the Mineralogical Department by the presentation of the Rutter-Phillips Collection of Minerals, formerly in the Medical Institution of Liverpool. This collection was made and classified by the late William Phillips, F.L.S., and at his decease was purchased by Dr. Rutter, formerly an eminent physician in the town. It was bequeathed by him to the Medical Institution under certain trusts, which, by the consent of the Trustees, have been superseded, and the collection has been unconditionally handed over to this Institution. Its value is estimated at about £1,300.

STATISTICS.

The visitors to the Museum during the year have been as follow :—

	1875-6.	1876-7.	Decrease.
Total Day Visitors	477,582	435,012	42,570
Weekly Average	9,010	8,365	645
Daily Average	2,211	2,051	160

The general depression of trade throughout the country has very probably tended to diminish the number of visitors during the present year. It is known to have done so at other similar institutions, by diminishing the number of excursionists and visitors from a distance.

The 18th of October, 1877, was the sixteenth anniversary of the opening of the Museum in the present building. During that time the

total number of visitors amounted to 7,164,022, giving a yearly average of 440,040.

DONATIONS.

A collection of Paris Basin and other Fossil Shells, chiefly Miocene, named by D'Orbigny; presented by Staff Surgeon-Major Samuel Archer and F. Archer, Esq.

A series of four pairs of Deer Horns, a young Hawk's Bill Turtle, two Terrapins, a Basilisk and other Reptiles, specimens of Crustacea, Insects, Sponges, Corals, &c., chiefly from Honduras; presented by Staff Surgeon-Major Samuel Archer.

Fossil Teeth of two extinct gigantic Marsupials of Australia, described and determined by Owen, viz.:—A right upper Molar of *Diprotodon Australis*, Owen, and a last lower Molar, left side, of *Macropus Titan*, Owen, both *in situ*; also specimens of three species of Shells, *Trigonia margaritacea*, *Elenchus roseus*, and a string of small *Truncatella*; presented by Dr. George Bennett, F.L.S., Sydney.

An Egg and two young Crocodiles from West Africa; presented by Mr. James Berry.

Three Shells (*Dolabella gigas*, *Ampullaria paludinoïdes*, and *Pythia albovariosa*), and two Insects, from Sumatra; collected and presented by Mr. E. C. Buxton.

Four specimens of Norwegian Grouse, *Lagopus subalpinus*, in summer, autumn, and winter plumage, from Scandinavia; presented by the Rev. E. A. Pitcairn Campbell.

A specimen of *Hislopia lacustris*, Carter (a Lacustrine Bryozoan), from Nagpoor, Central India, and a specimen of *Hydractinia echinata*, on a shell of *Buccinum undatum*, from Budleigh Salterton; presented by Mr. H. J. Carter, F.R.S.

Specimens of Fish, Starfish, Zoophytes, &c., from the Mediterranean; collected and presented by Dr. Caton.

A young Spoonbill Sturgeon, from the Mississippi; presented by Mr. Aaron Cohen.

Two specimens of the Colorado Potato Beetle, *Doryphora decemlineata*; presented by Dr. Commins.

The Skull of an Eared Seal (*Otaria*) from Callao, a Lumbar Vertebra

of a Whale from the Beach at Arica, and an Egg from Chanaral, North Chili, found at a height of 15,000 feet; presented by Mr. A. Cooper.

Ten selected specimens of Echinoderms, Crustacea, and Shells; presented by Mr. Thomas Cope.

A Northern Stone Crab (*Lithodes maia*) from North Wales; presented by Mr. Craine.

A collection of Californian Reptiles, Molluscs, Crustacea, &c., Shells from East and West of the Rocky Mountains, Trap-Door Spider and Nest, living Californian *Helices*, and a Skull from Santa Cruz; collected and presented by Mr. A. W. Crawford, California.

A young male Indian Elephant; presented by Mr. William Cross.

Specimens of *Calappa* and other Crustacea from the West Coast of Africa; collected and presented by Capt. Davis.

A fine specimen of the Striped Bonito Fish (*Thynnus pelamys*), taken by a Fishing Boat off the Isle of Man; rare in British waters; presented by Messrs. J. Duncan and Son.

Two Moustache Monkeys (*Cercopithecus cephus?*), brought from West Africa by Commander Cameron, R.N.; presented by Mrs. Walter Evans.

Six Osseous Dermal Scutes of large Alligator, from Santa Marta, Venezuela; collected and presented by Mr. George Evans.

Specimens of Land and Freshwater Shells from Dumfriesshire, and of Chalk, Upper Greensand, and other Fossils; presented by Mr. William Fingland.

Four living Sea Anemones from Torquay and Donegal; presented by Miss Gertrude Fletcher.

A fine specimen of a rare Freshwater Sponge (*Spongilla coralloides*, Bowerbank) from the Rapids of Salto, River Uruguay; collected and presented by Mr. George Higgin, C.E., per Mr. Thomas Higgin, F.L.S.

A Rib of a large Whale, showing abnormal characters, dug up on the Hoylake Shore; presented by Capt. Graham Hills, R.N.

A Diamond *in situ*, with sample of its matrix of "Maiden Blue," from Kimberley Mine, Griqualand West, South Africa; collected and presented by Mr. John Vernon Hope.

Living specimens of three species of Shells, from the Mediterranean, for the Aquaria; presented by Capt. Horsfall, Associate of the Literary and Philosophical Society of Liverpool.

Three Reptiles from West Africa ; presented by Mr. Lewis Hughes.

Two Bottles of Insects from Lower Egypt ; collected and presented by Mr. F. L. James.

Specimens of four species of Shells (*Helix*) from Setubal, Portugal ; a Female specimen, with pupa case and pensile nest, of a Wingless Moth (*Oiketicus*) ; and other specimens of Insects and Insect Architecture from Sao Paulo, Brazil ; collected and presented, with notes and drawings, by Mr. E. Dukinfield Jones.

A living Electric Fish (*Malapterurus Beninensis*) from Bonny River ; presented by Capt. W. L. Keene.

A Caudal Spine of a Sting Ray (*Trygon*) from Port Adelaide ; a tubular, horny Sponge ; a Type specimen of a new encrusting calcareous Zoophyte (*Hydractinia calcarea*, Carter) from West Africa ; presented by Mr. R. J. Keen.

Two Heteropterous Insects, allied to *Catacanthus*, from the Amazons ; collected and presented by Mr. Joseph Leyland.

The Skin and Horns of a Caribou (*Tarandus rangifer*), and a Rock Ptarmigan (*Lagopus rupestris*), from Newfoundland ; collected and presented by Mr. St. George Littledale.

A specimen of *Hydractinia calcarea*, Carter, on a Turritella Shell, from Kabenda, West Africa ; presented by Mr. F. P. Marrat.

A Mole Cricket (*Gryllotalpa*) from Bagneres de Luchon, Pyrenees ; collected and presented by Mrs. Mason.

Sixty specimens of Silurian Fossils (chiefly from the Miami Valley, Ohio) and two Stone Celts ; ninety bottles of small Marine Invertebrates from the Atlantic and Pacific Oceans ; specimens of *Phyllosoma*, *Velella*, *Porpita*, *Salpæ* ; two rare compound *Calycophoridae* ; and a fine dried specimen of the *Physalia* or Portuguese Man-of-War from the North Atlantic, with Photographs by Dr. John Habirshaw, F.R.M.S.L., showing the thread cells, &c., highly magnified ; presented by Capt. J. H. Mortimer, Associate of the Literary and Philosophical Society of Liverpool.

Three Snakes from South. America ; presented by Mr. G. H. Morton.

Two Freshwater Terrapins (*Emys Amazonica*, Spix) from the River Ucayali, Peru ; presented by Mr. L. Nash.

A Japanese Silk Moth (*Bombyx Yamamai*), bred in England ; presented by Messrs. Leo Negri and Co.

A Sea Fan (*Gorgonia flabellum*) from the West Indies; presented by Capt. Thomas Neill.

Two Thick-spined Sea Urchins (*Acrocladia mammillata*) from the Red Sea; presented by Mr. R. H. Nesbit.

A Fish (*Chromis niloticus*) from the Sea of Galilee; Shells (*Melanopsis prærosa*) from the River Jordan; Rock from Mount Sinai; Shells, Insects, &c., from Beyrout and Port Said; collected and presented by Mr. John Nicol, Jun.

A young Edible or Green Turtle (*Chelonia midas*), caught off the harbour of Alexandria; presented by Capt. Horatio Paul.

Two Silk Moths (*Telea polyphemus*) and Cocoons from New Orleans; collected and presented by Capt. J. A. Perry, Associate of the Literary and Philosophical Society of Liverpool.

A Python from West Africa; presented by Mr. T. Rogers.

The Nest of a Tree Wasp from Arnside; presented by Mr. R. Saul.

Specimens of Fish, Reptiles, and Crustacea from Bombay and Rangoon; two Pendulous Nests from Elephanta; Amygdaloidal Trap from Matheran; and three living Gold Fish from Port Said; collected and presented by Capt. Sibthorpe, S.S. "European."

A Twaite Shad (*Alosa finta*) taken in the Mersey; and specimens of Mangrove Oysters from the hull of the S.S. "Torcados," after two and a-half years' cruising on the coast of Africa; presented by Lieut. F. O. Simpson, R.N.

Marine Specimens from Rio and St. Vincent, Cape de Verd, comprising example of Fish (*Amphioxus*, *Dactyloptera*, and *Siluroids*), Echinoderms (*Encope* and *Comatula*), *Polyzoa*, &c.; collected and presented by Capt. J. S. Slack, Associate of the Literary and Philosophical Society of Liverpool.

A large Sea Urchin (*Acrocladia mammillata*) from the Red Sea; presented by Capt. Stark.

A young living Alligator, and a specimen of Brown Coal from Brazil; presented by Capt. J. P. Sweetzer.

A Fish (*Aulostoma*), two Lizards, three Snakes, and *Mygale* Spiders; presented by Mr. Owen Taylor.

Two specimens of Apteryx or Kiwi (*Apteryx Mantelli*) from Taranaki,

New Zealand, specially collected for the Museum ; also samples of Iron Sand and Iron Earth from the same district ; presented by Lieut. Col. Trimble, Taranaki.

A Green Monkey (*Cercopithecus sabæus*) from West Africa ; presented by Mr. G. A. Trout.

Specimens of Slow Worms, with their young, bred in confinement ; presented by Mr. J. S. Tyerman.

A collection of rare Shells from Fuca Straits and California ; collected and presented by Dr. David Walker, California.

A Photograph of a Restoration of the Mammoth, from the specimen in his collection at Rochester, New York, founded on the remains at St. Petersburg and Stuttgart ; presented by Prof. H. A. Ward, Rochester, U.S.A.

A Boomerang, Throwing Stick and Shield, from Victoria, Australia ; a Port Jackson Shark (*Cestracion Phillipi*), a File Fish (*Balistes*), two Bonitos, a Sphyrænid Fish, the Skull of Shark, a Cray Fish ; also specimens of Algæ, Sponges, Polyzoa, Crustacea, Shells, Fishes and Reptiles, from Portland Bay, Australia ; collected and presented by Capt. W. H. Cawne Warren, Associate of the Literary and Philosophical Society of Liverpool.

Specimens of Teredos or Shipworms and their borings, from the stock of an anchor dredged up in Queenstown Harbour ; presented by Mr. W. Wilson.

A Long-nosed Frog Fish (*Malthe*) from Galveston ; presented by Mr. Abner Woore.

Other Donations have been received from Messrs. Adam, Son & Co., Mr. T. Ashton, Mr. H. Baverstock, Mr. A. Connolly, Mr. A. J. Harvey, Mr. W. A. L. Henderson, Dr. J. Linton Palmer, R.N., and Mrs. Evans.

PURCHASES.

The principal purchases for the Museum have been as follows :—

A Group of Three Tigers, shot at Seharumpore by Col. Bagot, and mounted by Mr. Edwin Ward.

A Mandrill Baboon, a Burchell Zebra, fifteen other Mammals, a large Rhinoceros Horn, and six pairs of Horns of Caribou, Rein Deer, Ibex, &c.

A Peregrine Falcon, Secretary Falcon, and eight other Birds, chiefly for osteological specimens.

Mounted Skeletons of the Cassowary and of the Night Parrot of New Zealand (*Stringops habroptilus*).

Twelve Mammalian Skulls, Teeth, &c.

Twenty specimens of fourteen species of Shells.

A collection of Reptiles, Insects, and Crustacea (including examples of *Cryptolithodus typicus*) from Fuca Straits and Arizona, collected by Dr. David Walker.

A Vitreous Sponge (*Eurete farreaopsis*, Carter), from Cebu, Philippine Islands.

A collection of Dried Plants, chiefly Ferns, Algæ, and Mosses, formed by Messrs. Shepherd and Shillito.

EXCHANGES.

Specimens of the Big Horn or Rocky Mountain Sheep (*Ovis montana*), male and female; of the Prong-Horn Antelope (*Antilocapra americana*) male and female; and a stuffed specimen and skeleton of the Leather Turtle (*Sphargis coriacea*), received from Prof. H. A. Ward, Rochester, New York, in exchange for duplicate specimens of Mammals and Birds.

A specimen of the Vicuna (*Lama Vicugna*) from Mr. Edwyn C. Reed, Museo Nacional, Santiago de Chili, in exchange.

MAYER COLLECTION.

The Curator has been engaged in compiling a Catalogue of this Collection, but the extent of its treasures is such that a considerable time must elapse before it can be completed.

The extent and value of the Egyptian Collection led the Committee to invite the aid of Dr. Birch, the head of this department in the British Museum. It will be interesting to insert his Report, which is as follows:—

“BRITISH MUSEUM,

“London, W.E., 12th March, 1877.

“Dr. Birch has the honour of reporting that in accordance with the arrangement he has examined the Egyptian collection belonging to the Public Museum at Liverpool. This collection comprises an extensive and valuable series of Egyptian objects of all branches, and comprises several specimens of unique character and rare interest. Amongst these he would direct particular attention to the valuable alabaster vase incised with the standard name of Cheops, the builder of the

Great Pyramid, the numerous sepulchral tablets, many of which are of great interest, some for their excellent execution and remote antiquity, amongst which the most remarkable is one in *bas relief* of a person named Ankh-enteta, of an age at least as old as the Pyramids of Gizeh.

“Several of the statues, although small in size, are yet valuable, either for their period or style of art, some being as old as the twelfth Egyptian dynasty, and others of the period of Saite dynasty which reigned from about the 7th to the 5th century, B.C., are fine specimens of the style of that age. The torso of one statue, unfortunately imperfect, bears the name of Alexander—either Alexander the Great or his son and successor, Alexander Aigos.

“The pedestal of a statue of calcareous stone is also of considerable interest, as it bears the name and titles of a monarch named Amenmessu, the successor of Menepthah, the supposed Pharaoh of the Exodus. Amongst the smaller objects, Dr. Birch would particularly cite the belt dated in the second year of Rameses III., a rare and remarkable object, the tablet with Demotic inscriptions recording astronomical observations, the draughtsman in shape of an Asiatic prisoner with his hands bound, and the ends of leather straps stamped with the name of Osorchon I., all of which will always give a great interest to the valuable collection of the Museum.

“The same observation may be applied to the sealed lip of an ancient amphora or wine cask of terra cotta, which bears the inscription and seal of the Temple of Amen Ra, or the Theban Jupiter, where it was formely deposited.

“The collection comprises several Mummies and their coffins, and here Dr. Birch would observe that these objects of the sepulchral rites of the Egyptians have become of great value and rarity; they are also most attractive, as the public interest excited by them is always greater than that of any other kind of Egyptian antiquities. Some of these are brilliantly coloured and contain prayers and formulas very important for the proper comprehension of the religious system of Ancient Egypt. One fine specimen consists of three coffins which fit into one another, but the Mummy, as is usual in this kind of burial, is only wrapped in bandages. Dr. Birch also examined the collection with a view to such portions as might be removed as duplicates without impairing its utility, and a few objects have been selected which might advantageously be disposed of for that purpose—either that they are inferior specimens of better types, or in an unsatisfactory state of preservation, or that they will give space for the display of other objects.

“Dr. Birch would recommend that all objects in wood, magnesian limestone, and perishable materials should be placed under glass and their condition watched.

“The fact that objects exhumed from ancient soils often contain deliquescent or other salts often rapidly decay when exposed to a humid climate like that of Britain, and the greater security afforded by glass against accidental injury or wanton destruction, render this proceeding imperatively necessary where possible. The harder stone, such as basalt and granite, or even sandstone, do not require this precaution.

“In conclusion, Dr. Birch congratulates the Corporation of Liverpool on the possession of this valuable collection, which will always be of great interest to Egyptian students.

“S. BIRCH.”

An illustrated catalogue of a portion of the Egyptian collection has been prepared by Mr. Gatty, and printed, which will enable the public to appreciate better this very interesting collection. The illustrations are from wood blocks included in the Mayer collection.

DONATIONS.

The following additions have been made during the year:—

Seventy Roman Coin Moulds in clay, fifteen small Egyptian Amulets, and forty volumes octavo of the *Bulletino* and *Annali del Instituto de Corrispondenza Archeologica*, Roma, 1829—1852; presented by Mr. Joseph Mayer, F.S.A.

Two Bronze Greek Coins; presented by Mr. Joseph T. Ellerbeck.

A Native model of a Canoe and Paddles from Vancouver's Island, two small Gilt Wooden Idols from Burmah, and other specimens; presented by Captain G. P. Lock.

Three Unique Pottery Jugs, with Dogs, Pheasants, &c., painted by hand at the Herculaneum Pottery early in the present century; presented by Mr. John Rishton Lonsdale.

Twelve specimens of Ancient Peruvian Pottery and three Musical Instruments from Yokohama and Shanghai; presented by Messrs. R. J. Ward & Son.

A Model of the Samuel Plimsoll Lifeboat stationed at Lowestoft; presented by the Executive of the Plimsoll Lifeboat Committee, Liverpool.

PURCHASES.

Four Carved Ivory and one Japanese Porcelain Figures or Netzkes.

A Wedgwood Medallion Portrait of Ferdinand, King of Sicily.

A large Ivory Crucifix, Portuguese Indian Work; a small Crucifix, probably Italian, 16th century; a large Figure of Infant Christ; a small Figure of Infant Christ; an Ivory Head from a Figure; a Kneeling Figure of Samuel; and a Figure of St. Sebastian.

A collection of twelve specimens of Spanish Glass, Mediaeval and Modern; and 120 small Egyptian, Etruscan, Greek, and Roman Antiquities.

Thirty-nine Babylonian Tablets, with Cuneiform Inscriptions of the reigns of Nebuchadnezzar, Darius, Cambyses, Evil Merodach, and other kings.

Two Carved Human Figures, in wood, Burmese; two Playing Sticks, two Boomerangs, and Shield, from Australia; and two Clubs from the South Seas.

Ninety-five specimens of Japanese Lacquer Work.

FREE LECTURES.

No part of the operations of the Institution has been more popular and satisfactory than this.

The construction of the New Lecture Room, alluded to above, will prevent the inconvenience and crowding occasionally experienced.

The Twelfth Course of Free Lectures was delivered in January, February, and March, 1877, and was well attended. On several evenings the doors had to be closed and large numbers of persons refused admittance for want of room.

The following is a list of these Lectures:—

One Lecture on Bruges and Ghent, their History and Art, by Mr. Councillor P. H. Rathbone.

One Lecture on the Voyage of the *Argo* to the West Indies and the Spanish Main, by the Rev. H. H. Higgins, M.A.

Three Lectures on the Chemistry of Explosive Compounds, by Mr. Edward Davies, F.C.S.

Two Lectures on the Reign of Charles the First and the Puritan Revolution, by Mr. James Birchall.

One Lecture—A Peep into the Liverpool Directory, by Mr. Councillor J. A. Picton, J.P., F.S.A., Chairman of the Library, Museum, and Art Committee.

One Lecture on Turkey and the War, by Mr. Councillor J. A. Forrest.

One Lecture on Constantinople, Past and Present, by Mr. Henry Duckworth, J.P., F.R.G.S.

Three Lectures on the Art of Assisting the Memory, by Mr. William Relton.

Three Lectures on Vocal Music, by Mr. J. Veaco.

One Lecture on the Education of the Deaf and Dumb, by Dr. Buxton.

One Lecture on Animal Life in the Arctic Regions, by Mr. T. J. Moore.

One Lecture on Mottoes, and one on the Wit and Wisdom of Thomas Fuller, by the Rev. Hugh Stowell Brown.

Two Lectures on Recent Assyrian Discoveries, by the Rev. W. H. Boscawen.

Two Lectures on Photography, by Mr. William Keith.

One Lecture on the Geology of the Country around Llangollen, by Mr. G. H. Morton, F.G.S.

Two Lectures on Conchology, by Mr. F. P. Marrat.

Three Lectures on Navigation, by Mr. James Gill.

Four Readings by Mr. Frederick Kempster, M.A.

One Lecture on the Value and Uses of Galleries of Art, by Mr. B. Herdman Grindley.

Two Lectures on Art, by Mr. W. J. Bishop, Drawing Master of the Liverpool College, and Head Master of the Government School of Art, Northern Division.

One Lecture on the Rise and Progress of Art in connection with Water Colour Painting, from a Remote Period to the Present Time, by Mr. W. L. Kerry, Teacher of Painting, &c., at the Royal Institution.

One Lecture on the History and Practice of Painting on Glass, by Mr. John Finnie, Head Master of the Government School of Art, Southern Division.

The Fourth Course of Free French Lectures, by Prof. J. D. Galliard.

The Liverpool School of Science has had the usual accommodation during its Annual Session.

The Courses of Lectures delivered were as follow :—

Practical Plane and Solid Geometry; and Machine Construction and Drawing. Teacher, Mr. A. J. Briant.

General Biology and Animal Physiology. Teacher, Dr. G. Shearer, M.R.C.S. (Edin.)

Navigation and Nautical Astronomy. Teacher, Mr. James Gill.

Geology and Mineralogy. Teacher, Mr. W. Semmons, F.G.S.

The various examinations, conducted under the management of the Universities of Oxford and Cambridge and the Civil Service, have taken place as usual.

The following Societies have also had the use of rooms:—The Amateur Photographic Society, the Liverpool Numismatic Society, and the Lancashire and Cheshire Entomological Society.

ART DEPARTMENT.

The opening of the Walker Art Gallery has been recorded above. The results of the recent autumnal Exhibition have more than realized the most sanguine expectations. The public appreciation has been manifested by the large increase in the number of visitors, of season tickets, and of sales.

The exhibition rooms are all that can be desired in regard to light and arrangement. The permanent Gallery pictures have been hung, with the exception of those sent to the forthcoming Paris Exhibition. The arrangement of the lower rooms is a matter for future consideration.

The results of the Exhibition are as follow:—

	1877.	1876.
Number of Pictures and other works exhibited ..	1,320	1,186
Number of Pictures sold	302	255
Amount realised by sales ..	£10,989	6 0 £8,803 10 0
Season tickets	2,316	443 14 0 221 1 0
Admissions at one shilling ..	38,572	1,928 12 0 1,118 0 0
Ditto threepence ..	33,533	419 3 3 232 7 6
Ditto sixpence ..		86 9 6
Catalogues sold	454	10 1 301 12 0
Commission on sales	537	11 2 440 13 0
Amount received, exclusive of sales	3,245	19 4 1,959 10 0

Above 300,000 persons have visited the Gallery since its opening.

PURCHASES.

OIL PAINTING—

“A Nautical Argument;” by C. Napier Hemy.

WATER COLOUR—

“The Castle Rock of the Bridal of Triermain, Cumberland;” by H. Clarence Whaite.

“View of the Old Town Hall, Liverpool;” by W. G. Herdman.

TWO VASES OF DOULTON WARE, designed by Miss H. B. Barlow—
Subject No. 1—"Horses Chased by a Herd of Bison."

Do. No. 2—"A Pastoral Scene"—Horses, Cattle, Sheep, and
Fowl at Rest.

DONATIONS.

Marble Bust of Sir John Tobin, Knight, Mayor of Liverpool, 1829 ;
presented by Mr. William Taylor.

A Marble Group, "The Pet Lamb;" presented by Mr. John Bramley-
Moore.

A Marble Figure, entitled "Self Help, or Time is Precious," by
A. Rossetti;" presented by Mr. G. C. Schwabe.

Two Busts in Marble—one of Michael Angelo, by Canova, and one of
Canova, by himself; presented by Mr. J. Neale Lomax.

A Bust of Sir A. B. Walker, carved in Wood, by Messrs. Allen and
Sons; presented by the Artists.

A Marble Figure "La Fiorentina," by Fedi; presented by Col. Bourne.

A Berlin China Vase, enriched with a painting of "Otto III. Visiting
the Tomb of Charlemagne in the Crypt of the Cathedral of Aix-la-
Chapelle," after a picture by Kaulbach, in the Germanic Museum at
Nuremberg; presented by Mr. W. Litherland.

OIL PAINTINGS—

"Serf Emancipation; an Anglo-Saxon Noble on his Death-bed gives
Freedom to his Slaves," by E. Armitage, R.A.; presented by Mr.
Alderman Bennett, J.P.

"The Best of Husbands," by Arthur Stocks; presented by Mr.
Alderman B. Hall, J.P.

"A Venus and Cupid," by Luca Giordano; presented by Mr.
James L. Bowes.

WATER-COLOUR DRAWING—

"St. Paul's from Blackfriars Bridge," by Geo. Dodgson; presented
by Mr. Thos. Dodgson.

A Proof Engraving of "Napoleon and his Staff at the Battle of
Austerlitz;" presented by Mr. Richard Wingfield.

Roberts's Self-Acting Machine for Painting Blind Laths; presented
by the Inventor.

LOANS.

In response to a letter from H.R.H. the Prince of Wales, as President of the Royal Commission for the Paris Exhibition of 1878, the Committee have promised to lend, for the Department Illustrative of British Art, the following pictures :—

“ Serf Emancipation ; ” by E. Armitage, R.A.

“ Richard II. Resigning the Crown to Bolingbroke ; ” by Sir John Gilbert, R.A.

“ Dinner Time at Purbeck Quarries ; ” by A. D. Fripp.

During the holding of the Autumn Exhibition the lower rooms were open gratuitously to the public. They were filled by the Pictures, Sculpture, and other Works of Art, the property of the Corporation, including a Collection of the Works of the late L. R. Mignot, and the valuable Ceramic Ware, chiefly Satsuma, the property of Major Walter.

In addition to the Works of Art presented to the Gallery, Mr. Casartelli, of Oldhall Street, has gratuitously furnished the rooms with Self-acting and other Thermometers, in addition to a handsome Barometer and Thermometer for the lower Vestibule.

Signed, on behalf of the Committee,

J. A. PICTON,

CHAIRMAN.

15 JUL. 1898



