

1922. *1 June 1920*
(SECOND SESSION.)

LEGISLATIVE ASSEMBLY.
NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30TH JUNE, 1920.)

Presented to Parliament pursuant to Act No. 61, 1902, Sec. 10.

Printed under No. 1 Report from Printing Committee, 20 July, 1922.

TO HIS EXCELLENCY THE GOVERNOR,—

The Trustees of the Australian Museum have the honor to submit to your Excellency their Sixty-sixth Report, being for the year ended 30th June, 1920.

The office of Crown Trustee, which had been vacant since the death on 23rd November, 1918, of Mr. H. H. B. Bradley, was filled by the appointment of Mr. James McKern, on 5th December, 1919.

Dr. T. Storie Dixon, M.B., Ch.M., President of the Medical Board, was re-elected President of the Board for the year 1920.

Sir James Burns and Mr. W. H. Hargraves received leave of absence for part of the year.

1. TRUSTEES.

The following is a list of the Trustees, with records of their attendances at Board Meetings during the year:—

Crown Trustee.

James McKern, Esq. (since 5th December, 1919)	7
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Official Trustees.

Statutory—

His Honor the Chief Justice	—
The Hon. the Colonial Secretary	—
The Hon. the Attorney-General	...	...	...	...	...	—
The Hon. the Colonial Treasurer	...	...	...	...	...	—
The Auditor-General	...	...	...	...	...	13
The President of the Medical Board (Dr. T. S. Dixon, President)	...	...	...	...	...	13

Appointed—

The Hon. the President of the Legislative Council	...	...	...	...	...	—
The Crown Solicitor	...	...	...	...	...	—
The Surveyor-General and Chief Surveyor	...	...	...	...	...	—
*Mr. R. T. Ball, late Secretary for Public Works and Minister for Railways	...	...	...	...	...	—
*Mr. A. G. F. James, late Minister for Public Instruction	...	...	...	...	...	—

Elective Trustees.

Prof. W. A. Haswell, M.A., D.Sc., F.R.S....	...	...	...	...	...	9
Prof. T. W. E. David, B.A., C.M.G., F.R.S.	...	...	...	...	...	6
Prof. J. T. Wilson, M.B., Ch.M., F.R.S.	...	...	...	...	...	4
W. H. Hargraves, Esq.	...	...	...	...	...	10
Colonel R. E. Roth, C.M.G., D.S.O., V.D., M.R.C.S.E....	...	...	...	...	...	5
Eric Sinclair, Esq., M.D.	...	...	...	...	...	5
Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C.	...	...	...	...	...	4
J. R. M. Robertson, Esq., M.D., C.M.	...	...	...	...	...	10
Ernest Wunderlich, Esq.	...	...	...	...	...	7
G. H. Abbott, Esq., B.A., M.B., Ch.M.	...	...	...	...	...	6
J. Vernon, Esq.	...	...	...	...	...	2
The Right Hon. D. Levy, LL.B., M.L.A....	...	...	...	...	...	2

* Vacated office 13th April, 1920.

2. SECTIONAL COMMITTEES.

During the year the Trustees appointed the members of the Finance Committee to be also a Publicity Committee, for the purpose of making the Museum better known to its owners the public, and suggested to the Committee that, in addition to methods to be by them decided, it take steps by press notices and otherwise to invite with frequency the attention of the public to the advantage and treasures of the Museum, and for the continuance of interest therein by judicious change, and by rearrangement of the Museum so that the present unexhibited specimens may be displayed in the Museum, or elsewhere by sectional exhibits.

The other Committees, all of which meet monthly, are the House Committee, which deals generally with all matters affecting the Staff of the Museum and other matters assigned to it by the Trustees, such as structural improvements, alterations and additions; and the Scientific and Publication Committee, which controls the publications of the Museum, the acquisition of collections and books, and makes periodical inspection of the contents of the Museum.

The members of these Committees and their attendance during the year are as follows, the President of the Board (Dr. T. Storie Dixon) when present, being Chairman *ex officio* of each Committee:—

Finance and Publicity Committee—

Mr. Wunderlich (Chairman)	8
Dr. Dixon	1
Mr. McKern (since 6th May)	2
Mr. Hargraves	7
Colonel Roth (resigned 22nd March)...	1
Sir James Burns	5
Dr. Robertson	1

House Committee—

Mr. Coghlan (Chairman)	8
Dr. Dixon	12
Professor Haswell	7
Mr. Hargraves	6
Dr. Robertson	9

Scientific and Publication Committee—

Professor Wilson (Chairman)	3
Professor David	4
Dr. Abbot	6
Professor Haswell	8
Dr. Sinclair	7

3. STAFF.

It is with the deepest regret that the Trustees report the death of their valued Director, which occurred rather suddenly at his country home during the Christmas vacation. Mr. Robert Etheridge had been associated with the Museum for a long term of years, first as one of the scientific staff, and afterwards as Executive Officer. During his period of office the buildings were greatly extended and the collections largely increased. For many years he was never absent from his office for more than a few days, and at the age of 73 he died in harness. His researches in Palaeontology and Ethnology are highly esteemed both at home and abroad. An appreciative record of his career is being prepared for publication in the Museum "Records," a journal founded by him.

By a few weeks Mr. W. J. Rainbow predeceased his chief. This gentleman had been in charge of the Entomological department since 1896, and as a specialist in the study of spiders had a wide reputation. For some years his health gradually failed, and he passed away after a lingering illness. His cheerful and amiable disposition endeared him to his colleagues.

To fill the vacancy caused by the loss of Mr. Etheridge the Trustees invited by advertisement applications from Great Britain and the British Dominions for the Directorship, closing on 31st July. Meanwhile Mr. Hedley, the officer next in seniority, was placed in charge.

In recognition of the high reputation of Mr. G. A. Waterhouse as an authority on Entomology, he was elected Honorary Entomologist. His handsome gift of Lepidoptera to the Museum deserves special mention.

In answer to advertisements several applications were received for the position vacated by the death of Mr. Rainbow. The Board decided to promote Mr. A. Musgrave, as from 1st June, to be Entomologist.

To fill the vacancy caused by the resignation of Mr. E. A. Briggs, the Board promoted Mr. R. W. Bretnall to be a First-class Assistant, and to take charge of the Lower Marine Invertebrata.

Mr. E. Le G. Troughton, Second-class Assistant, has been entrusted with the care of the Mammalia, as well as that of the vertebrate skeletons.

Mr. B. S. Lucas, Senior Carpenter, entered on extended leave prior to retirement on a pension, on 1st June. Mr. W. A. Cleary, Junior Librarian, resigned on 31st July, was succeeded by V. R. K. Reynolds, who resigned on 17th March, was succeeded by F. D. McCarthy on 29th March, 1920.

All the six officers who volunteered for military service have now resumed their former occupations, the last being Mr. Troughton, who came back to the Museum on 20th October, and Mr. Kingsley on 10th May.

Messrs. Percy H. Eldershaw and Arthur A. Livingstone were appointed as Scientific Cadets.

The last amending Act, which dealt with pensions and superannuation in the Government Service, was extended to include the Staff of the Museum. A Board appointed to administer the Act has enrolled our officers and collected pension levies, so that the scheme is now in operation.

This year the Museum employees each received an advance of £44 per annum, granted by the Government to compensate for the high cost of living.

During the year a Staff Committee, consisting of Mr. Hedley and Dr. Anderson, was appointed and made recommendations which were adopted by the Trustees. In one selection of applicants they had the assistance, at the desire of the Trustees, of Professor Haswell.

Following

Following is a list of the Museum Staff as at 30th June, 1920:—

Name and Office.	Date of first appointment in the Museum.	Date of appointment to present position.
Charles Hedley, Acting Curator	1 April, 1891	12 Jan., 1920
Charles Anderson, M.A., D.Sc., Mineralogist, Acting Assist. Curator ...	22 July, 1901	12 Jan., 1920
Allan R. McCulloch, Zoologist	1 July, 1901	1 July, 1906
Wm. W. Thorpe, Ethnologist	9 Oct., 1899	1 July, 1906
Reg. W. Bretnall, Zoologist	11 Feb., 1907	2 May, 1919
Anthony Musgrave, Entomologist	7 Feb., 1910	1 June, 1920
T. Harvey Johnston, M.A., D.Sc., Hon. Zoologist	1 Jan., 1908	1 Jan., 1908
Edw. F. Hallmann, B.Sc., Hon. Zoologist	1 Jan., 1911	1 Jan., 1911
A. F. B. Hull, Hon. Ornithologist	7 Sept., 1917	7 Sept., 1917
A. G. Waterhouse, B.Sc., Hon. Entomologist	3 Oct., 1919	3 Oct., 1919
Ellis Le Geyt Troughton, Second-class Assistant	13 Jan., 1908	7 Mar., 1919
J. Roy Kinghorn, Second-class Assistant	1 Sept., 1907	7 Mar., 1919
F. A. McNeill, Second-class Assistant	18 May, 1914	7 Mar., 1919
Percy H. Eldershaw, Cadet	7 May, 1920	7 May, 1920
Arthur A. Livingstone, Cadet	7 May, 1920	7 May, 1920
Wm. A. Rainbow, Librarian	13 July, 1902	1 Oct., 1916
Jas. A. Trimble, Accountant, and Secretary to Director	1 July, 1909	1 Oct., 1916
T. A. Murphy, Clerk	1 May, 1911	1 Oct., 1916
F. D. McCarthy, Junior Librarian	29 Mar., 1920	29 Mar., 1920
Jas. W. Woodhead, Printer	27 Sept., 1897	27 Sept., 1897
Thos. A. Henson, Carpenter	1 May, 1902	8 May, 1906
G. Chas. Clutton, Senior Articulator	25 April, 1904	1 May, 1913
Henry S. Grant, Senior Taxidermist	5 Oct., 1909	22 Feb., 1918
Herbert Jackson, Junior Carpenter	9 June, 1910	9 June, 1910
Joseph Kingsley, Junior Articulator	21 July, 1913	21 July, 1913
J. H. Wright, Junior Taxidermist	13 May, 1908	1 July, 1917
H. O. Fletcher, Messenger	6 Aug., 1918	6 Aug., 1918
John Cronin, Chief Attendant	5 July, 1909	5 July, 1909
Arthur Barnes, Senior do	— April, 1897	1 May, 1920
Robert Long, Attendant	3 April, 1894	8 Feb., 1897
J. T. Lee, do	11 Sept., 1905	5 April, 1909
T. Rochford, do	1 May, 1911	1 May, 1911
John Watson, do	8 May, 1914	8 May, 1914
T. Johnston, do	13 Dec., 1915	13 Dec., 1915
E. T. Hill, do	8 Oct., 1917	8 Oct., 1917
D. Massey, do	8 Dec., 1917	8 Dec., 1917
A. B. Welsh, do	4 Nov., 1918	4 Nov., 1918
Mrs. K. Fraser, do	1 April, 1889	1 April, 1889
Alexander Mackay, Night Watchman	13 Mar., 1915	13 Mar., 1915
Murdock Mackay, do	11 Sept., 1915	5 Oct., 1917

4. RESUMPTION OF PORTION OF SITE.

After a dispute existing since 1916, the Municipal Council of Sydney has arranged to compensate the Trustees for the William-street and College-street frontage resumed in 1916, of 371 feet frontage to William-street by a depth of 34 feet. The sum accepted is £5,000, with annual interest at 4 per centum from the date of resumption. The amount is grossly inadequate, but as the alternative was costly litigation at the expense of the taxpayer, this loss in value was accepted as the lesser of two evils.

5. NECESSITY FOR EXTENSION OF BUILDINGS.

The necessity for additional accommodation is urgent and much valuable possessions of the State remain stored for want of exhibition space.

6. PROPOSED ADDITION TO SITE.

Mr. James, late Minister for Public Instruction, made a minute some time prior to leaving office, that if the William-street Public School were closed, as was his intention, that part of the land should be added to the Museum area. One of the early plans for the Museum buildings included the public school site.

7. MUSEUM EXHIBITION IN COUNTRY TOWNS.

It was decided recently by the Trustees that, to provide for the public of the State generally greater facility for viewing and studying the resources of the Museum, arrangements should be made whereby parcels of specimens should be placed on view in local centres.

8. LIBRARY.

During the year the Library acquired by purchase and exchange 346 volumes, independent of loose parts and reprints, which are detailed in Appendix II, Additions to the Library. A selection from the Library of the late Director forms a notable part of the year's increase; this includes a series of classified reprints, the fruit of many years' accumulation. As in former years, economy has been exercised both in binding and in purchasing. New exchanges with learned institutions have been arranged and others are in

in course of negotiation. Since the Department of Trade and Customs approved of the importation of scientific and educational publications from ex-enemy countries, steps have been taken to procure this literature, which is much needed.

9. ATTENDANCE OF VISITORS.

On Mondays, when galleries are closed to the general public, students are given special facilities for study. An angle of the Ethnological room has been furnished as a cosy corner for ladies and children. Two drinking fountains have been installed for the use of visitors. The largest attendance for a single day exceeded 4,000.

Year.		Summary.	Week-days.	Sundays.	Total.
1913-1914	(1st July to 30th June)...	...	104,830	49,313	154,243
1914-1915	" "	...	109,922	46,611	156,533
1915-1916	" "	...	125,978	52,669	178,647
1916-1917	" "	...	133,645	52,399	186,044
1917-1918	" "	...	140,977	59,920	200,897
1918-1919	" "	...	142,977	63,520	206,497
1919-1920	" "	...	145,058	52,490	197,548

10. EXHIBITS.

In accordance with the plan of the Board to popularise the Museum by installations attractive to the general public, scenic groups have been devised. One represents an Antarctic coast, the painted background showing a vista of water lane hedged by floes and distant icebergs. In the foreground, a Weddell and a Crab-eating Seal are grouped round a breathing hole. Attendant on these are a party of Emperor and Adelie Penguins in characteristic attitude, while a Skua gull looks round seeking what it may devour. This stands in the main hall near the entrance, facing the Lion group. The latter has been embellished with a painted background of appropriate scenery.

In continuation of this policy a fine series of plaster casts of Hawaiians is in preparation, with a view to presenting a Polynesian family engaged in domestic vocations.

11. GUIDE-BOOKS.

The Board planned the preparation of a series of popular official Guide-books to the exhibits, taking each subject separately. It was hoped that the educational value of the Museum would be thus enhanced. Considerable progress has been made with the undertaking, but interruption, due to the death of the Director, has delayed the appearance of the books.

12. LECTURES.

Popular Science Lectures were continued as usual in the Museum Lecture room. The numerous and appreciative audience that regularly attend indicate that a public want is satisfied by our programme. Subjects and speakers were arranged this year as follows:—

- 1919—10 July—"In Search of Sponges," A. R. McCulloch.
- 24 July—"Common Objects by the Sea Shore," E. A. Briggs, B.Sc.
- 14 August—"Australian Petrels," A. F. Basset Hull.
- 14 September—"Crystals," C. Anderson, D.Sc.
- 9 October—"Birds and their Relation to Plants, Mostly Australian," A. G. Hamilton.
- 13 November—"The Beginning of Life," E. A. Briggs, B.Sc.
- 1920—6 April—"Mesopotamia: The Land and the People," L. Harrison, B.Sc., B.A.
- 13 May—"The Balance of Nature," C. T. Musson, F.L.S.
- 24 June—"Pond Life," F. L. Grutzmacher, F.C.S.

The lecture delivered by the President (Dr. Thomas Storie Dixson) on 10th June, 1919, entitled "The Australian Museum: Its Origin, Growth and Work," was published in pamphlet form during the year.

13. CURATORIAL WORK.

Spirit House (Mr F. A. McNeill in charge).—The space in the isolated and fireproof building, devoted to specimens preserved in alcohol, is fast filling up; 180 feet of shelving added this year covers almost the last vacant space. Many fungus-infected formaline tanks have been siphoned out, cleaned, the contents washed, and refilled. The large collections which arrived during the year have been put away and catalogued. The Mollusca and Porifera have received a general overhaul, having been re-sorted, spaced, and placed in fresh receptacles. Evaporation has been kept in check. All the shelving has been re-indexed, and a classification devised for the ordering and control of specimens.

Mammals (Mr. E. Le G. Troughton in charge).—As Mr. Troughton did not return from Military Service till October, 1919, and has also been absent collecting in South Australia for four and a half months, most of the routine duty was carried out under the direction of the late Director. All the large Mammalia exhibited in the gallery were taken out, fumigated, cleaned, and placed on new stands. On returning them to their places labels were renovated as required. The foreign and Australian Bats were similarly treated, being replaced on stands of grass and rockwork. An Australian Fur Seal (*Otaria cinerea*) was mounted and added to the series on exhibition.

As usual much material of value and interest has been received from Taronga Zoological Park. Mr. Harry Burrell, who was studying the breeding habits of the Monotremata, presented us with a fine series of the young of the Platypus and a young Echidna.

A cast of a Bottled-nosed Dolphin (*Tursiops catalania*), 9 feet in length, made by Mr. G. C. Clutton, has been coloured by Miss P. F. Clarke, and affords an admirable exhibit. Stuffed skins of such animals shrink, wrinkle, and drip with oil, so that a cast presents a life-like appearance unattainable in the preserved hide.

From Mr. Troughton's tour we derived skins and skulls of Kangaroo, Wallaby, Phalanger, Echidna and Rats from Kangaroo Island, also skins, skulls and spirit specimens of bats, and a large series of rats from Kangaroo Island, Eyre's Peninsula and Farina, Central Australia. Foxes and wild cats are destroying the native animals so seriously that the need of obtaining such specimens while they may yet be had becomes more and more important.

Skeletons (Mr. E. Le G. Troughton in charge).—The skeleton of the Dolphin, the body of which was cast and coloured, was also prepared.

To improve definition, the background of the Osteological gallery was painted dead black. Against this the bones stand out more clearly than before. The specimens were twice removed from the cases and cleaned.

A popular Guide to this department was prepared by the late Director.

Birds (Mr. A. F. Basset Hull, Honorary Ornithologist; Mr. H. S. Grant in charge).—Some progress was made in re-labelling the gallery exhibits. Both the exhibited and the large stored collection have been regularly overhauled and disinfected, so that the collection is maintained clean and in good order. Since the series on exhibition are already crowded, it has not been possible to show any additions to the Bird collection.

A fine series of Birds of Paradise, including the King, the Four-Wired, Hunstein's Magnificent, and the Red-plumed, were received from the Zoological Gardens. Mr. C. H. Gorrick presented the rare Red-chested Quail, and Mr. W. Dixon the New Zealand Kiwi.

Among the nests and eggs which reached us were the elaborate structures, with examples of the different stages, built by the South African Weaver Bird. In another case the Black-backed Magpie had used such uncongenial material as fencing wire to build a nest.

For several months Mr. Grant and his Assistant, Mr. Wright, were engaged on the preparation of the Antarctic beach scene already described.

Reptiles and Amphibia (Mr. J. R. Kinghorn in charge).—Forty-eight specimens were presented to this department. Exhibits have been increased by the addition of a carapace and plastron of the Hawksbill Turtle, prepared by Mr. Clutton, to show the relative positions of the various plates and shields used in classification. Drawings of skulls of certain snakes, accompanied by descriptions, were introduced to explain the difference in dentition between various poisonous and non-poisonous forms. A large specimen of the Green Turtle was coloured and renovated.

Several weeks were spent in the preparation of a popular illustrated gallery guide to this section, and drawings were made for similar guides written by Mr. Etheridge and Mr. Rainbow.

Publication.—R. Etheridge, "Note on the Galapagos Tortoise formerly at Gladesville"; *Rec. Austr. Mus.*, xii, 1919, p. 337.

Pisces (Mr. A. R. McCulloch in charge).—The rearrangement of the reference collection of Fishes under the decimal system was completed during the year by Mr. F. A. McNeill, so that it is now possible to refer to any of its contained 15,000 specimens within a few minutes. The history and other data concerning each has been written in full on catalogue cards which are arranged on the same principle. A number of the families have been revised and their identifications checked, particular among which is the large group of Gobies.

Considerable changes have been effected in the exhibited collection, and a number of coloured casts have replaced preserved specimens in bottles.

The collection has been enriched by two very valuable additions. The first consists of a number of fishes collected in New Zealand by Mr. C. Hedley, which not only include many species hitherto unrepresented on our shelves, but also a valuable series for comparison with Australian representatives. The second is a large collection of some thousands of fishes, mostly from freshwater, presented by the General Manager of the State Trawling Industry, which is quite the most representative collection of our inland fishes hitherto brought together. This also includes types of some of the species described by Mr. Stead.

Some further work has been done in the preparation of another report upon the fishes collected by the Federal Trawler "Endeavor," dealing principally with the sharks and rays.

The following ichthyological papers were published:—

"Some Australian Fishes of the Family Gobiidae," *Rec. Austr. Mus.*, xii, 10, 1919, pp. 193-291—A. R. McCulloch and J. Douglas Ogilby.

"Check List of the Fishes of New South Wales," *Austr. Zoologist*, i, 7, 1919, pp. 217-227—A. R. McCulloch.

Mollusca (Mr. C. Hedley in charge; Mr. J. K. Allan, Assistant).—After the transference of Mr. Hedley to Administrative work, consequent on the death of the Director, the care of the Mollusca was undertaken by Mr. Brettnall, with the assistance of Miss Allen. Her efforts have been principally centred on the sorting of the bulk collection, especially the Cox collection. The reference collection is now being re-classified; Australian Pelecypoda are revised and indexed generically; other groups will be dealt with in turn. The space allotted to Mollusca is now fully occupied and the question of future expansion is a pressing one. The spirit collection of Cephalopoda has been sorted over and rearranged by Mr. McNeill.

The registration of receipts amounted to 2,581 entries, and included 2,152 shells from North-West Australia, New Britain, and neighbouring islands, collected and presented by Captain W. Burrows, R.A.N.; 352 species from the Great Barrier Reef, presented by Mr. A. R. McCulloch; thirty-six Japanese shells presented by Mr. C. Hedley; seventeen rare Tasmanian species, including authors' co-types, received from Mr. W. L. May; and a series of Victorian shells received in exchange from Mr. C. Gabriel.

Published papers of this department were:—

"Onchidiidae from Australia and the South-western Pacific Islands," by R. W. Brettnall; *Rec. Austr. Mus.*, xii, 1919, pp. 303-328, pl. xxxviii.

"A Review of the Australian Tun Shells," by C. Hedley; *Rec. Austr. Mus.*, xii, 1919, pp. 329-336, pls. xxxix-xliv.

Crustacea (Mr. F. A. McNeill in charge).—For some time little attention had been paid to the Decapod Crustacea which were revised this year. About half the collection is now classified, checked, and card catalogued. Both the gallery and cabinet collections have been overhauled and disinfected. A large specimen of the Giant Japanese Crab, having a span of 10 feet 5 inches from claw to claw, presented by Mr. W. E. Shaw, has been placed in the gallery, also a fine example of the Spiny Lobster, coloured from life. Prominent among the acquisitions of the year is a series collected by the "Endeavor," and described by Miss Rathbun of the United States National Museum.

Many

Many valuable specimens are contained in a large collection presented by Mr. D. G. Stead. A freshwater shrimp, apparently new to science, was collected in the Nepean River, New South Wales, by Mr. McCulloch. Several additions to the carcinological fauna of the State resulted from a search made by Mr. Kinghorn of the beach at Trial Bay.

Lower Marine Invertebrates (Mr. R. W. Bretnall in charge).—The duplicate collection of the Mollusca was transferred to a cellar in the main building, and the space in the iron shed thus vacated was utilised for the reception of the Echinodermata. This group has been rearranged and partly catalogued, while the Sponge collection has been re-spaced and arranged, but has to await cataloguing until further determination can be accomplished. The collection of Corals was checked with the rough catalogue and will receive further attention. The dry series of Polyzoa was completely overhauled and micro. mounts were prepared for comparison with the collections in Melbourne. Mr. Bretnall spent a fortnight studying the McGillivray and other collections at the National Museum, Melbourne, and named there a large number of species partly from the "Endeavor" collections and partly from our own. Research was carried out for the Railway Commissioners for the eradication by poison of marine growths choking water channels at the White Bay Power House. Ostreiculturists from Port Hacking were given a series of demonstrations in microscopy in connection with their occupation.

To the official popular guides Mr. Bretnall contributed chapters on the Lower Crustacea.

Insects and Spiders (Messrs. W. J. Rainbow and A. Musgrave in charge).—The lingering illness and death of Mr. Rainbow interrupted the work of this department. The preparation of a popular guide to the collections under his official care was the last service that this officer rendered to the institution.

Mr. Musgrave, who had acted for many years as assistant in the entomological branch, was promoted by the Board to succeed him. A large collection of spiders was catalogued and stored. Both the Cabinet and the Gallery collections were periodically overhauled and disinfected. Two cabinets were made on the premises for the accommodation of a part of a magnificent collection of Australian Lepidoptera, which Mr. A. G. Waterhouse is presenting to the Museum. A large collection of Australian Coleoptera was presented by Mr. Frank H. Taylor. The Imperial Bureau of Entomology forwarded a most useful series of named exotic Diptera. Mr. G. H. Hardy gave holotypes and paratypes of Diptera recently described by him, while Dr. E. Ferguson transferred to our care the types of Tabanidae created by Miss M. Henry and himself. Other donations of interest were from Dr. Illingworth, Mr. H. J. Carter, and Mr. A. Musgrave.

During his travels in South Australia, Mr. Troughton procured over three hundred specimens of insecta and arachnida, many of which are new to our collection. Noteworthy among these is a new species of Nycteribid, a bat parasite of which only one other kind has been found in Australia.

Publication is represented by a paper written by Mr. G. H. Hardy, a volunteer worker, entitled "Notes on the Flies of the Genus *Pelecorhynchus*," *Rec. Austr. Mus.*, xiii, 1920, pp. 33-39, pl. ix.

Ethnology (Mr. W. W. Thorpe in charge).—The Ethnological collections, both stored and exhibited, have received the usual attentions. An extra shelter was provided for a number of carved trees. A series, illustrative of the Solomon Island culture, has been laid out in a large table case and an upright floor case. An early phase of European civilisation is recalled by replicas from the Reindeer period of the Dordogne caves in France. As a temporary display, a set of Tugeri implements, shown as "A Head-hunter's Outfit," filled a gap.

By purchase and exchange, a variety of interesting additions were obtained from Australia, New Zealand, and the South Sea Islands. From the Auckland Museum an ancient canoe prow and Maori spades were received. A series of "Toas" or direction-indicators were added from Central Australia, and Papua was represented by a collection from Maty Island, contributed by Captain W. Burrows, R.A.N.

Early in the year the Australian chapter of the official guide to the ethnological department was written, and now awaits publication.

The services of the Ethnologist were largely utilised by the late Director in research work at the Public and Mitchell Libraries. Other duties devolving on him are the registration of fossils, casts, photographs, and the like. One of the two cadets is engaged alternately in the ethnological and in the mineralogical departments.

The New Guinea Government collection continues to be housed and cared for.

"List of Hieroglyphical Signs and Words in the Funerary Inscription of Neter-Nekht," by A. Rowe, *Rec. Austr. Mus.*, xii, 1919, pp. 293-301.

Numismatics (Mr. W. W. Thorpe in charge).—The coin, medal, and token collections have been maintained in good order. Progress has been made with the classification of a large collection of Chinese and other Oriental coins which have been packed away for twenty years. Coins have been identified for visitors desiring information. Donations were received from the Deputy Master of the Sydney Mint, the Minister of Munitions, and Mr. A. B. Welsh.

Palaeontology (Mr. W. W. Thorpe in charge).—A number of casts of Carboniferous fossils, prepared from Professor McCoy's types in the Sedgewick Museum, have been received.

A paper on Queensland fossils was completed by the late Director, and after his death was sent to the Government Geologist of Queensland for publication.

Mineralogy (Dr. C. Anderson, in charge).—The gallery and store collections are in a satisfactory condition. The latter were revised and catalogued to facilitate reference to specimens.

In company with Mr. D. A. Porter, the Mineralogist obtained some fine stilbite from Garawilla, near Gunnedah; axinite and albite from the Moonbi Ranges; vesuvianite and the rare colourless garnets from Bowling Alley Point. Choice specimens of New England minerals were received in exchange from Mr. George Smith. Mr. T. W. Steel presented a fine series of Phosphates from Ocean and Pleasant Islands. Other donations were presented by Messrs. W. T. Watkin Brown, Arthur Combe, and D. A. Porter, and Mrs. Hubert Kelly.

Publication was represented by "Mineralogical Notes No. X," by Dr. Anderson, *Rec. Austr. Mus.*, xiii, 1920, pp. 1-31, pls. i-vii.

14. COLLECTING, &c.

A week in January was spent by Mr. Kinghorn collecting marine fauna on the North Coast of New South Wales; he succeeded in obtaining an interesting series.

Dr. Anderson spent the end of December and part of January in the field. Under the guidance of Mr. D. A. Porter he visited several localities in New England, including Gunnedah, Moenbi, and Nundle, New South Wales. He gathered there an interesting collection of gems and minerals, and studied their occurrence in the matrix.

The first quarter of 1920 was spent by Mr. Troughton collecting in South Australia. In company with Mr. Charles Hoy, of the United States National Museum, he visited Central Australia, Kangaroo Island, and Eyre's Peninsula. The far interior was spoilt for collecting by the prevailing drought, but profitable work was done in the coastal districts. A large series, amounting to 280 vertebrates and 1,180 invertebrates, was gathered. These have not yet been exhaustively determined, but some species new to science have been detected, and others are rarities not previously contained in the Museum collections. Not the least of the advantages gained from the tour was the professional training which our officer enjoyed from association with a naturalist of such wide experience as Mr. Hoy.

In May, Mr. Brettnall visited the National Museum, Melbourne, taking a large collection of Polyzoa, partly the property of this Museum and partly "Endeavor" material belonging to the Commonwealth. By the kind help of the Director and officers of that institution he was enabled to identify a number of difficult species. The information thus obtained will be used in the preparation of Mr. Brettnall's report on the "Endeavor" collection.

15. FINANCIAL.

Statement of Receipts and Expenditure for the year ended 30th June, 1920.

	Endow- ment Account.	Public Account.	Totals.		Endow- ment Account.	Public Account.	Totals.
	£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.
Balance from last year...	1,720 4 2		1,720 4 2	Salaries—			
Statutory Endowment ...	1,000 0 0		1,000 0 0	Director, and Assistant Curator...	1,338 13 3		
Parliamentary Appropriations—				First-class Scientific Assistants ...	1,500 1 9		
Salaries ...		8,940 0 0		Second-class Scientific Assistants...	839 0 9		
Contingencies...		1,590 0 0		Clerical Staff...	987 6 9		
			10,530 0 0	Mechanics ...	1,776 18 3		
Basic Wage Increase ...		863 6 8		Attendants ...	2,436 0 5		8,878 1 2
Special Account ...		7 7 8		Overtime and Sundays ...		438 17 9	438 17 9
			863 6 8	Building and Maintenance—			
Sales of Publications—				Repairs ...	127 8 5		
Records ...	6 0 6			Cases ...	298 3 6		425 11 11
Post Cards ...	3 6 11			Superannuation—			
Nest and Egg Catalogue ...	25 4 7			Trustees' Contributions ...	818 4 4		
Catalogues ...	0 18 9			Employees' " ...	179 4 11		997 9 3
			35 10 9	Insurance ...		165 0 11	165 0 11
Miscellaneous—				Statutory and Additional Endow- ment—			
Fines ...	0 10 0			Working Expenses ...	347 10 7	390 7 9	
Miscellaneous ...	2 14 0			Insurance ...	2 6 0		
			3 4 0	Cases ...	105 14 11	7 7 11	
Interest—				Tools and Plant ...	65 7 10	35 16 10	
Reserve Account ...	33 16 2			Catalogues (Pub. "Records," &c.)	275 7 11	1 9 3	
War Loan ...	37 10 0			Books and Bookbinding ...	391 13 3	9 3 4	
Peace Loan ...	21 0 0			Preservation of specimens ...	61 8 8	51 14 7	
			92 6 2	Purchase of specimens ...	42 14 0	1 14 6	
				Collecting and travelling ...	157 12 2		
				"Guide," Preparation of ...	13 13 9		
				Miscellaneous ...	75 18 8	2 2 0	
							2,039 3 11
				Peace Loan ...	400 0 0		400 0 0
				Refund of Unexpended Balances ...		4 17 2	4 17 2
				Balance ...	911 17 4		911 17 4
£ 2,851 5 1	11,409 14 4	14,260 19 5		£ 2,851 5 1	11,409 14 4	14,260 19 5	

* Examined and found correct,—

N. BLACK,

Senior Inspector of Public Accounts,

5th August, 1920.

The Common Seal of the Museum was hereunto affixed by order
of the Board, this 27th day of September, 1920,

T. STORIE DIXSON, President.

CHARLES HEDLEY, Acting Curator.

16. APPENDICES.

The following Appendices are attached, viz. :—

1. List of the Publications of the Australian Museum.
2. Catalogue of the Additions to the Library.

APPENDIX I.

List of available publications of the Australian Museum :—

I.—Annual Reports.

Nos. 1-62. 1853-1917.

II.—Catalogues.

3. Catalogue of the Minerals and Rocks in the Collection of the Australian Museum, by G. Krefft. 1873.
4. Catalogue of the Australian Birds in the Australian Museum, by E. P. Ramsay. Part I, Accipitres, 1876. Part II, Striges, 1891. (Second edition, revised by A. J. North, 1898.) Part III, Psittaci, 1891. Part IV, Halcyones, 1894.
6. Catalogue of the Library of the Australian Museum, 1883. With two Supplements.
7. Catalogue of a Collection of Fossils in the Australian Museum. With Introductory Notes by F. Ratte. 1883.
9. Descriptive Catalogue of the General Collection of Minerals in the Australian Museum, by F. Ratte. 1885.
10. Catalogue of Echinodermata in the Australian Museum, by E. P. Ramsay. Part I, Echini, 1885. Second edition, 1890.
12. Descriptive Catalogue of the Nests and Eggs of Birds found breeding in Australia and Tasmania, by A. J. North. 1889. (See also Special Catalogue I.)
13. Descriptive Catalogue of the Sponges of the Australian Museum, by R. von Lendenfeld. 1888.
14. Catalogue of the Fishes in the Australian Museum. Part I, Palaeiethyan Fishes. By J. Douglas Ogilby. 1888.
15. Catalogue of the Marine Shells of Australia and Tasmania, by J. Brazier. Part I, Cephalopoda, 1892. Part II, Pteropoda, 1892. Part III, Gasteropoda (Murex), 1893.
16. Catalogue of Australian Mammals, with Introductory Notes on General Mammalogy, by J. Douglas Ogilby. 1892.
17. Descriptive Catalogue of the Tunicata in the Australian Museum, by W. A. Herdman. 1899.

III.—Special Catalogues.

1. Nests and Eggs of Birds found breeding in Australia and Tasmania, by A. J. North. Vol. I, 1901-1904. Vol. II, 1906-1909. Vol. III, 1910-1912. Vol. IV, 1913-1915.

IV.—Monographs.

1. Australian Lepidoptera and their Transformations, by A. W. Scott, with Illustrations by his daughters, Mrs. Morgan and Mrs. Forde, Vol. I, 1864. Vol. II, edited and revised by Mrs. Forde and A. S. Olliff, 1890-98.

V.—Memoirs.

1. History and Description of the Skeleton of a new Sperm Whale in the Australian Museum, by W. S. Wall. 1851.
2. Lord Howe Island : Its Zoology and Physical Characters, by R. Etheridge, Junr., and Others. 1889.
3. The Atoll of Funafuti, Ellice Group : Its Zoology, Botany, and General Structure, based on Collections made by C. Hedley. 1896-1900.
4. Scientific Results of the Trawling Expedition of H.M.C.S. "Thetis," off the Coast of New South Wales, in February and March, 1898. 1899-1914.

VI.—Records.

The Records contain descriptions of specimens, accounts of expeditions, and other results of the scientific work of the Museum Staff.

- Vol. iii, 1897-1900; vol. iv, 1901-3; vol. v, 1903-5; vol. vi, 1905-8; vol. vii, 1908-10; vol. viii, 1910-13; vol. ix, 1912-13; vol. x, 1913-15; vol. xi, 1916-17; vol. xii, 1917-20; vol. xiii, part 1, 1920.

VIII.—Miscellaneous Publications.

1. List of Old Documents and Relics in the Australian Museum, 1884. Reprinted with additions. 1890.
2. Descriptive List of Aboriginal Weapons, Implements, &c., from the Darling and Lachlan Rivers, by K. H. Bennett. 1887.
3. Notes for Collectors. 1887.
4. Hints for the Collectors of Geological and Mineralogical Specimens, by F. Ratte.
5. Hints for the Preservation of Specimens of Natural History, by E. P. Ramsay. 1891. 4th edition.
6. List of Duplicate Books and Pamphlets available for exchange in the Library of the Australian Museum. Prepared by S. Sinclair, Secretary and Librarian. 1900.
7. Report of a Visit to Certain European Museums in 1911, by Charles Anderson. 1912. With Notes on a Report by C. Anderson, &c., by R. Etheridge, Junr. 1912 (for private circulation only).
8. Report on Museum Administration in the United States, by Charles Hedley. 1913 (for private circulation only).
9. Rules to be observed in Writing Papers for the "Records" and "Memoirs." Revised edition. 1913 (for use of the Staff of the Museum).
10. List of Museum Publications prepared and arranged by S. Sinclair, Secretary and Librarian, assisted by W. A. Rainbow, Assistant Librarian. 1916.

APPENDIX II.
ADDITIONS TO THE LIBRARY.

Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
PART I.—AUTHORS.					
19764	ADAMS, Andrew L. Notes of a Naturalist in the Nile Valley and Malta		19790	BRIGHAM, Wm. T. Report of a Journey around the World to study Matters relating to Museums. (<i>Occasional Papers of the Bernice Pauahi Bishop Museum</i> , vol. v, No. 5).	
19757	AINSWORTH, William F. A Personal Narrative of the Euphrates Expedition. Vols. I-II.	Purchased		1 vol. 8vo. Honolulu, 1913.	Purchased
19758			19712	BROOKES, Samuel. An Introduction to the Study of Conchology, including observations on the Linnean Genera	
19568	ALDER, Joshua. A Catalogue of the Mollusca of Northumberland and Durham. (From the <i>Transactions of the Tyneside Naturalists' Field Club</i>).	Purchased		1 vol. 4to. London, 1815.	Purchased
	1 vol. 8vo. London, 1848.	Presented	19749	BROWN, J. Macmillan. The Dutch East, sketches and pictures.	
19751	ANDERSON, Robert E. The Story of Extinct Civilisations of the East.			1 vol. 8vo. London, 1914.	Purchased
	1 vol. 8vo. London, 1896.	Purchased	19686	CHENU, J. C. <i>Bibliothèque Conchyliologique</i> .	
19815	ANGELIN, N. P. <i>Paleontologia Scandinavica</i> . P.I. Crustacea Formationis Transitionis. Fasc. I-II.		19687	Ser. I, T.I.; Ser. II, T.I.	
	1 vol. 8vo. Hölmiac, 1878.	Purchased		In 2 vols. 8vo. Paris, 1845-46.	Presented by C. Hedley
19836	—Fragmenta Silurica e dono Caroli Henrici Wegelin. <i>Opus studio Nicolai Petri Angelin Inchoatum edendum curavit G Lindström.</i>		19856	COLONIAL AND INDIAN EXHIBITION, 1886. A Descriptive Catalogue of the Rocks, Minerals, and Fossils; illustrative of the Geology, Mineralogy, and Mining Resources of Victoria (Australia).	
	1 vol. 4to. Holmiac, 1880.	Purchased		1 vol. 8vo. Melbourne, 1886.	Purchased
19583	BAIRD, Spencer F. Spencer Fullerton Baird, by William Healey Dall.		19857	—Handbook and Catalogue of the West Indies and British Honduras.	
	1 vol. 8vo. Philadelphia, 1915.	Presented		1 vol. 8vo. London, 1886.	Purchased
19780	BALFOUR, John E. Introduction to the study of Paleontological Botany.		19858	—Handbook of British North Borneo.	
	1 vol. 8vo. Edinburgh, 1872.	Purchased		1 vol. 8vo. London, 1886.	Purchased
19577	BARRETT, Charles. In Australian Wilds, the gleanings of a Naturalist.		19859	—London. Catalogue of the Exhibits in the Queensland Court.	
	1 vol. 8vo. Melbourne, 1919.	Purchased		1 vol. 8vo. Brisbane and London, 1886.	Purchased
19841	BARROIS, Charles. Faune du Calcaire D'Erbay (Loire Inferieure). Contribution a L'Etude du Terrain Devonien.		19551	COMSTOCK, John H. The Wings of Insects	
	1 vol. 4to. Lille, 1889.	Purchased		1 vol. 8vo. Ithaca, 1918.	Purchased
19835	BATHER, F. A. Triassic Echinoderms of Bakony. (<i>Resultate der Wissenschaftlichen Erforschung des Balatonsees. I. Band, I. Teil, Pal. Anhang.</i>).		19713	CONCHOLOGY. Rudiments of Conchology: Intended as a familiar introduction to the science, with explanatory plates and references to the collection of shells in the British Museum. By the author of "The Geographical Present." A new and improved edition.	
	1 vol. 4to. Budapest, 1909.	Purchased		1 vol. 8vo. London, 1837.	Presented
19782	BERNARD, Felix. <i>Eléments de Paléontologie</i> .		19779	COOPER, W. R. An Archaic Dictionary: Biographical, Historical, and Mythological: from the Egyptian, Assyrian, and Etruscan Monuments and Papyri.	
	1 vol. 4to. Paris, 1895.	Purchased		1 vol. 8vo. London, 1876.	Purchased
19860	BERTRAND, C. Eg., and RENAULT, B. Album Photographique des Préparations de l'Algue du Kerosene shale de la Nouvelle Galles du Sud (<i>Reinischia australis</i>).		19635	COSSMAN, M., and A. PEYROT. <i>Conchologie neogenique de l'aquitaine</i> .	
19861			19637	Tome I-II (Plates).	
	2 vols. 8vo. Lille, 1894.	Purchased		In 2 vols. 4to. Bordeaux, 1909-14.	Purchased
19621	BEYSCHLAG, F., J. H. J. VOGT, and P. KRUSCH. (S. J. Truscott, transl.) The deposits of the useful minerals and rocks, their origin, form, and content in three volumes. . . . Vols. I-II.			Tome III. Texte.	
19622				1 vol. 8vo. Bordeaux, 1917-19.	Purchased
19814	BIGSBY, John J. Thesaurus Devonico-Carboniferus. The Fauna and Flora of the Devonian and Carboniferous Periods.		19638	DANISH INGOLF EXPEDITION.	
	1 vol. 4to. London, 1878.	Purchased		Vol. I. Wandel, C. F. Report of the Voyage.	
19813	—Thesaurus Siluricus. The Flora and Fauna of the Silurian Period, with Addenda. (From recent acquisitions).			2. Knudsen, M. Hydrography. 1899.	
	1 vol. 4to. London, 1868.	Purchased		3. Boeggild, O. B. The Deposits of the Sea-bottom.	
19750	BOUTELL, Charles. Arms and Armour in Antiquity and the Middle Ages. . . .			4. Wandel, C. F. Current-bottles. 1900.	
	1 vol. 8vo. London, 1902.	Purchased	19639	Vol. II. Lütken, Chr. The Ichthyological Results;	
19684	BOSC, L. A. G. Histoire Naturelle des Coquilles, contenant leur description, les mœurs des animaux qui les habitent et leurs usages. Tomes I-V.			2. Jungersen, Hector F. E. On the Appendices Genitales (Claspers) in the Greenland Shark, <i>Somniosus microcephalus</i> (Bl. Schn.), and other Selachians. 1899.	
19617	BOYNE, William. Tokens issued in the Seventeenth Century in England, Wales, and Ireland by corporations, merchants, tradesmen, &c., described and illustrated by. . . .			3. Bergh, R. Nudibranchiate Gasteropoda. 1900.	
	1 vol. 8vo. London, 1858.	Purchased		4. Jensen, Adolf S. The North-European and Greenland Lycodinae. 1904.	
19682	BRAUNS, Reinhard. Mineral Kingdom, translated, with additions by Leonard J. Spencer.			5. Jensen, Adolf S. Lamellibranchiata, Part I. 1912.	
19683			19640	Vol. III. I. Meinert, Fr. Pycnogonida. 1899.	
19577A	BREHM, A. E. Brehm's Zoological Atlas.			2. Hansen, H. J. Crustacea Malacostracea. I. 1908.	
	1 vol. Fol. London, n.d.	Presented by C. Hedley		3. Hansen, H. J. Crustacea Malacostracea. (II). 1913.	
				4. With, Carl. Copepoda. I. 1915.	
				5. Hansen, H. J. Crustacea Malacostracea. (III). 1916.	

Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
19641	Vol. iv. 1. Mortensen, Th. Echinoidea. 1903. 2. Mortensen, Th. Echinoidea. II. 1907. 3. Ritter-Záhony, R. von. Chaetognaths. 1914. 4. Ditlevsen, Hj. Annelids. I. 1917.		19842	ETTINGSHAUSEN, Constantin von. Beiträge zur Kenntniss der Tertiärflora Australiens. Zweite Folge. (K. Akad., Wiss. Denkschr. Math. Naturw. Kl. Bd. LIII, 1886.) Beiträge zur Kenntniss der Tertiärflora Australiens. (K. Akad. Wiss. Denkschr. Math. Naturw. Kl. Bd., XLVII, 1883.) Die Genetische Gliederung der Flora Australiens. (K. Akad. Wiss. Denkschr. Math. Naturw. Kl. Bd., XXXIV, 1875.) Über die Blattskelette der Lorantheaceen. (K. Akad. Wiss. Denkschr. Math. Naturw. Kl. Bd., XXXII, 1871.) Die Genetische Gliederung der Flora Australiens. (K. Akad. Wiss. Denkschr. Math. Naturw. Kl. Bd., XXXIV, 1875.) Beiträge zur Kenntniss der Fossilen Flora von Parschlug in Steiermark. (K. Akad. Wiss. Denkschr. Math. Naturw. Kl. Bd., XXXVIII, 1877.) Beiträge zur Erforschung der Phylogenie der Pflanzenarten. (K. Akad. Wiss. Denkschr. Math. Naturw. Kl. Bd., XXXVIII, 1877.) Beiträge zur Erforschung der Phylogenie der Pflanzenarten. (K. Akad. Wiss. Denkschr. Math. Naturw. Kl. Bd., XLIII, 1880.) in 1 vol. 4to. Wen, 1875-1886. Purchased	
19642	Vol. v. 1. Jungersen, Hector F. E. Pennatulida. 1904. 2. Mortensen, Th. Ctenophora. 1912. 3. Carlgren, Oskar. Ceriantharia. 1912. 4. Carlgren, Oskar. Zoantharia. 1913. 5. Broch, Hjalmar. Stylasteridae. 1914. 6. Broch, Hjalmar. Hydroida (I). 1916. 7. Broch, Hjalmar. Hydroida (II). 1918. 9. Kramp, P. L. Medusae Part I. Reptomedusae. 1919.		19731	FAUNA OF BRITISH INDIA, including Ceylon and Burma. . . . Edited by A. E. Shipley, assisted by Guy A. K. Marshall. Coleoptera, Chrysomelidae. (Hispanae and Cassidinae) by S. Maulk. 1 vol. 8vo. London, 1919. Purchased	
19745	Vol. vi. 1. Lundbeck, Will. Homorrhaphidae and Heterorrhaphidae. 1902. 2. Lundbeck, Will. Desmacionidae (pars). 1905. 3. Lundbeck, Will. Desmacionidae. 1910. In 6 vols. 4to. Copenhagen, 1899-1919. Presented		19884	FRENCH ARMY SURGEON, A. Untrodden Fields of Anthropology: Observations on the esoteric manners and customs of semi-civilised peoples; being a record of thirty years' experience in Asia, Africa, and America. Vols. I-II. 2 vols. 8vo. Paris, 1896. Purchased	
19769	DARWIN, Charles. Journal of Researches into the Natural History and Geology of the Countries visited during the voyage of H.M.S. "Beagle" round the World, under the command of Captain Fitzroy, R.N. Second Edition. Corrected with additions. 1 vol. 8vo. London, 1845. Purchased		19885	FRITSCH, Dr. Ant., and Jos. KAFKA. Die Crustaceen der Böhmisches Kreideformation. 1 vol. 4to. Prag, 1887. Purchased	
19754	DAWSON, Robert. The present state of Australia . . . 1 vol. 8vo. London, 1880. Purchased		19619	FERGUSON, James. Rude Stone Monuments in all countries: their ages and uses. 1 vol. 8vo. London, 1872. Purchased	
19753	DEMMIN, Auguste. Weapons of War . . . 1 vol. 8vo. London, 1870. Purchased		19626	FINSCH, Otto. Die Papageien. Bd. I-II. 1867. 3 vols. 8vo. Leiden, 1867-68. Purchased	
19866	DICTIONNAIRE Classique d'Histoire Naturelle, par Messieurs Audouin, Isid. Bourdon, Ad. Brongniart, de Candolle. Tomes I-XVII. 17 vols. 8vo. Paris, 1822-1831. Purchased		19709	FISCHER von Waldheim, Gotthelf. Zoognosia tabulas synopsis illustrata . . . Edition tertia . . . Vol. I. 1 vol. 4to. Mosquae, 1813. Vols. II-III. 2 vols. 8vo. Mosquae, 1813. Purchased	
19892	DICTIONNAIRE Universel d'histoire naturelle . . . dirigé par M. C. d'Orbigny. Tomes I-III. Atlas, Tomes I-III. 16 vols. 8vo. Paris, 1861. Purchased		19711	FITZSIMONS, F. W. The Natural History of South Africa. Mammals. Vols. I-II. 2 vols. 8vo. London, 1919. Purchased	
19597	D'ORBIGNY, Alcide. Prodrome de Paléontologie Stratigraphique Universelle des Animaux Mollusques and Rayonnés Faisant Suite au Cours Élémentaire de Paléontologie et de Géologie Stratigraphiques. Vols. I-III. 3 vols. 8vo. Paris, 1850 and 1852. Purchased		19740-19741	GEIL, Wm. Edward. Ocean and Isle. 1 vol. 8vo. Melbourne, 1902. Purchased	
19786	D'ORBIGNY, Alcide. Prodrome de Paléontologie Stratigraphique Universelle des Animaux Mollusques and Rayonnés Faisant Suite au Cours Élémentaire de Paléontologie et de Géologie Stratigraphiques. Vols. I-III. 3 vols. 8vo. Paris, 1850 and 1852. Purchased		19572	GESNER, Conrad. Icones animalium quadrupedum viviparorum. quae in historia animalium Conradi Gesneri. Libro I et II. Describuntur, cum nomenclatoris singulorum latinis, graecis, italicis, gallicis, et germanicis plerumque, et aliarum quoque linguarum, certis ordinalis digestae. Editio secunda . . . (Tiguri, 1560). Appendix Historiae, Quadrupedum viviparorum and oviparorum Conradi Gesneri Tigurini. (Tiguri, 1554.) Nomenclator aequalium animantium. Icones Animalium Aquatilium in mari and dulcibus aquis degentium plusquam DCC. cum nomenclaturis latinis, Graecis, Italicis, Hispanicis, Gallicis Germanicis, Anglicis . . . (Tiguri, 1560). In 1 vol. Fol. Tiguri, 1554-1569. Purchased	
19788	D'ORBIGNY, Alcide. Prodrome de Paléontologie Stratigraphique Universelle des Animaux Mollusques and Rayonnés Faisant Suite au Cours Élémentaire de Paléontologie et de Géologie Stratigraphiques. Vols. I-III. 3 vols. 8vo. Paris, 1850 and 1852. Purchased		19829	GIGLIOLI, Enrico H. La Collezione Etnografica, Geograficamente Classificata. Parte I. Australasia. Parte II. Antico e Nuovo Continente. 2 vols. 8vo. Firenze, 1911-1912. Purchased	
19812	DYBOWSKI, Wladislaw Nalecz. Monographie der Zoantharia sclerodermata rugosa aus der Silurformation Estlands, Nord-Livlands und der Insel Gotland, nebst einer Synopsis aller Paläozoischen Gattungen dieser Abtheilung und einer Synonymik der dazu gehörigen, bereits bekannten Arten (Arten Naturk. liv.-Est.-u. Kurlands (I) V). 1 vol. 8vo. Dorpat, 1873. Purchased				
19810	Another copy—Differently paged. Purchased				
19811	—Die Chaetetiden der Ostbaltischen Silurformation. 1 vol. 8vo. Dorpat, 1878. Purchased				
19690	EHRENBERG, C. G. Symbolae Physicae, seu Icones et descriptiones Corporum Naturalium novorum aut minus Cognitorum . . . in 2 vols. La Fol. Berolini, 1823-45. Purchased				
19691	EHRENBERG, C. G. Symbolae Physicae, seu Icones et descriptiones Corporum Naturalium novorum aut minus Cognitorum . . . in 2 vols. La Fol. Berolini, 1823-45. Purchased				
19844	ETHERIDGE, Sen., Robert. Fossils of the British Islands Stratigraphically and Zoologically arranged. Volume I. 1 vol. 4to. Oxford, 1888. Purchased				
19819	ETHERIDGE, Junr., Robert and Robert Logan JACK. Catalogue of Works, Papers, Reports and Maps on the Geology, Palaeontology, Mineralogy, Mining and Metallurgy, &c., of the Australian Continent and Tasmania. 1 vol. 8vo. London, 1881. Purchased				
19820	Another copy. Purchased				

Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
19795	GILL, Thomas. A Brief Sketch of the Coinage and Paper Currency of South Australia. 1 vol. 8vo. Adelaide, 1912.	Purchased	19834	LINDSTROM, G. On the Silurian Gastropoda and Pteropoda of Gotland. (<i>Kongl. Svenska Vetenskap.-Akad. Handl.</i> Bd. xix, No. 6). 1 vol. 4to. Stockholm, 1884.	Purchased
19801	GOULD, George M. An Illustrated Dictionary of Medicine, Biology and Allied Sciences. 1 vol. 4to. London, 1894.	Purchased	19823-19828	LYDEKKER, Richard (Editor). The Royal Natural History. Vols. I-VI. 6 vols. 8vo. London, 1893-1896.	Purchased
19569	GRONOVIVS, L. T. Bibliotheca Regni Animalis atque Lapidei, seu Recensio Auctorum et Librorum. . . . 1 vol. 8vo. Lugduni Batavorum, 1760.	Presented	19613	— The Sheep and its Cousins. 1 vol. 8vo. London, 1912.	Purchased
19629 19630	HARTMANN, A. Repertorium op de Literatuur betreffende de Nederlandsche Kolonien. I. Ost Indië, 1866-1893. II. West-Indië, 1840-1893. (1895) Iste Verlog. 1894-1900 (1900). 2de. Verlog. 1901-1905 (1906) continued by W. J. P. J. Schalker and W. C. Muller. 3de. Verlog. 1906-1910. (1912) 1911-1915 (1917). In 2 vols. 8vo. s'Gravenhage, 1895-1917.	Purchased	19570	MACGILLIVRAY, William. A History of the Mollusca of the counties of Aberdeen, Kincardine, and Banff; to which is appended an account of the Cirripedal Animals of the same district. 1 vol. 8vo. London, 1843.	Presented
19623	HEERES, J. E. The part borne by the Dutch in the Discovery of Australia, 1606-1765, by J. E. Heeres. . . . Published by the Royal Dutch Geographical Society in commemoration of the XXVth Anniversary of its Foundation. 1 vol. Fol. Leiden and London, 1899.	Purchased	19747	MAHAFFY, J. P. The Empire of the Ptolemies. 1 vol. 8vo. London, 1895.	Purchased
19575	HEWLETT, R. Tanner. A Manual of bacteriology, clinical and applied, 6th Edition. 1 vol. 8vo. London, 1918.	Purchased	19852	MANN, John F. Eight Months with Dr. Leichhardt, in the years 1846-47. 1 vol. 8vo. Sydney, 1888.	Purchased
19791 19792	HÖHNEL, Ludwig von. Discovery of Lakes Rudolf and Stefanie, a Narrative of Count Teleki's Exploring and Hunting Expedition in Equatorial Africa in 1887-1888. . . . 2 vols. 8vo. London, 1894.	Purchased	19849	MEYER, A. B. Studies of the Museums and Kindred Institutions of New York City, Albany, Buffalo, and Chicago, with notes on some European Institutions. (<i>U.S. National Museum, Reports</i> , 1903). 1 vol. 8vo. Washington, 1905.	Purchased
19324	HOUBE, E. et V. Jacques. Les Australiens du Musée du Nord. 1 vol. 8vo. Bruxelles, 1885.	Purchased	19596	MEYER, H. A., und K. MOBIUS. Die Hinterkiemer oder Opisthobranchia der Kieler Bucht. 1 vol. Fol. Leipzig, 1865.	Presented
19770 19771	HUTCHINSON, Thomas J. Two Years in Peru with Exploration of its Antiquities. Vol. I-II. 2 vols. 8vo. London, 1873.	Purchased	19766-19767	MITRA, Rájendralala. Indo-Aryans: Contributions towards the Elucidation of their Ancient and Medieval History. Vols. I-II. 2 vols. 8vo. London, 1881.	Purchased
19744	IDDINGS, Joseph H. Rock Minerals, their Chemical and Physical characters and their determination in thin sections, 2nd Edition, 2nd impression, 2nd Thousand. 1 vol. 8vo. New York and London, 1911.	Purchased	19800	MORRIS, Henry (Editor). A Treatise on Human Anatomy. 1 vol. 8vo. London, 1893.	Purchased
19854	JEWITT, Llewellyn. English Coins and Tokens, with a chapter on Greek and Roman Coins by Barclay V. Head. 1 vol. 8vo. London, 1888.	Purchased	19807	MORRIS, John. A Catalogue of British Fossils. . . . 2nd edition, considerably enlarged. 1 vol. 8vo. London, 1854.	Purchased
19831	JOHNSTON, R. M. Outline of the Geology, Fauna, and Flora of Tasmania; together with a brief account of her mineral, vegetable, and other natural products. 1 vol. 8vo. Hobart, 1892.	Purchased	19765	MORELET, Arthur. Travels in Central America, including accounts of some regions unexplored since the Conquest, from the French of the Chevalier Arthur Morelet, by Mrs. M. F. Squier. Introduction and Notes by E. Geo. Squier. 1 vol. 8vo. London, 1971.	Purchased
19748	JONES, William. Finger-Ring Lore. Historical, Legendary, and Anecdotal. New edition. 1 vol. 8vo. London, 1898.	Purchased	19759	MURCHISON, Sir Roderick Impey. Siluria. A History of the oldest rocks in the British Isles and other countries. . . . 1 vol. 8vo. London, 1867.	Purchased
19808	JAMES, Thomson. On the Development and General Relation of the Corals of the Carboniferous System of Scotland. (<i>Phil. Soc. of Glasgow</i> , 1883). 1 vol. 8vo. Glasgow, 1883.	Purchased	19714-19715	MURRAY, James A. H. A New English Dictionary on Historical Principles. . . . Vol. ix, Part I, Si-St. 1919. Vol. ix, Part II, Su-Th. 1919.	Purchased
19851	KENYON, A. S. Photographs of Australian and Pacific Stone Implements. 1 vol. 8vo. n.d.	Purchased	19822	MURRAY, Reginald A. F. Victoria, Geology and Physical Geography. Published for and on behalf of the Government, under instructions from the Hon. John Lamont Dow, M.P., Minister for Mines, and Chas. W. Langtree, Secretary for Mines. . . . 1 vol. 8vo. Melbourne, 1887.	Purchased
19620	KING, C. W. The Natural History, Ancient and Modern, of Precious Stones and Gems, and of the Precious Metals. 1 vol. 8vo. London, 1865.	Purchased	19632-19633	NEDERLANDSCHE TIMOR-EXPEDITIE, 1910-1912. I.—De Geologie van het eiland Letti naar onderzoekingen te velde verricht door H. A. Brouwer en G. A. F. Molengraaff. Beschreven door G. A. F. Molengraaff. . . . (<i>Jaarb. Mijnwezen Ned. Oost-Ind.</i> , 1914.) 2 vols. 8vo. and Fol. s'Gravenhage, 1915.	Purchased
19838	KONINCK, L. G. de. Monographie des Fossiles Carbonifères de Bleiberg en Carinthie. 1 vol. 4to. Bruxelles and Bonn, 1873.	Purchased	19821	NEW HEBRIDES COMPANY. A Description of the New Hebrides Group of Islands in the South Pacific Ocean. . . . with a brief notice of the objects, &c., of the New Hebrides Company. . . . 1 vol. 8vo. London, 1846.	Purchased
19772-19773	LAYARD, Austen H. Nineveh and its Remains. . . . Vols. I-II. 3rd edition. 2 vols. 8vo. London, 1849.	Purchased	19855	NEW SOUTH WALES INTERCOLONIAL AND PHILADELPHIA INTERNATIONAL EXHIBITION. Mines and Minerals Statistics of N.S.W. and Notes on the Geological Collection of the Department of Mines. . . . Also Remarks on the Sedimentary Formations of N.S.W. by the Rev. W. B. Clarke, and Notes on the Iron and Coal Deposits, Wallerawang, and on the Diamond Fields, by Prof. Liveridge. 1 vol. 8vo. Sydney, 1875.	Purchased
19843	LIGNIER, Octave. Végétaux Fossiles de Normandie. IV.—Bois Divers. V.—Nouvelles Recherches sur le Propalmonophyllum liasium Lignier. VI.—Flore Jurassique de Mamers (Sarthe). (<i>Mem. Soc. Linn. Norm.</i> Tome XXII-XXIV). 1 vol. 4to. Caen, n.d.	Purchased			

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19768	NICHOLSON, H. Alleyne. The Ancient Life-history of the Earth. A comprehensive outline of the principles and leading facts of Palaeontological Science. 1 vol. 8vo. Edinburgh and London, 1877. Purchased		19865	ROTH, Walter E. North Queensland Ethnography, Bulls. 1-8. 1 vol. Fol. Brisbane, 1901-1906. Purchased	
19808	— On the Structure and Affinities of the Genus Monticulipora and its Sub-Genera, with Critical Descriptions of Illustrative Sciences. 1 vol. 8vo. Edinburgh and London, 1881. Purchased		19550	SARASIN, Fritz. La Nouvelle-Calédonie et les Iles Loyalty; souvenirs de voyage d'un naturaliste. Traduit de l'allemand par Jean Roux. 1 vol. 8vo. Bale et Paris, 1917. Presented by C. Hedley	
19781	— A Monograph of the British Graptolitidae. I. 1 vol. 8vo. Edinburgh and London, 1872. Purchased		19847	SCHUCHERT, Charles. Palaeography of North America. (Geol. Soc. America, Bull., xx). 1 vol. 8vo. New York, 1910. Purchased	
19816-19817	— Report upon the Palaeontology of the Province of Ontario. 2 vols. 8vo. Toronto, 1874-1875. Purchased		19818	SMITH, Mrs. James. The Boondik Tribe of South Australian Aborigines. 1 vol. 8vo. Adelaide, 1880. Purchased	
19830	NICHOLSON, H. Alleyne and Robert ETHE- RIDGE, junior. A Monograph of the Silurian Fossils of the Girvan District in Ayrshire, with special references to those contained in the "Gray Collection." Fasc. I-III. 3 vols. 8vo. Edinburgh and London, 1878-1880. Purchased		19794	SMITH, George. Assyrian Discoveries; an account of exploration and discoveries on site of Nineveh during 1873 and 1874. 4th edition. 1 vol. 8vo. London, 1875. Purchased	
19832	NILSSON, S. Petrificata Suecana Formationis Cretaceae. 1 vol. 4to. Londoni Gothorum, 1877. Purchased		19556	SMITH, G. S. Graham. Flies in Relation to Disease—Non-blood-sucking Flies. 1 vol. 8vo. Cambridge, 1913. Purchased	
19742	NORTHROP, John I. A Naturalist in the Bahamas. . . 12th October, 1861—25th June, 1891. A Memorial Volume, edited with a biographical introduction by Henry Fairfield Osborn. 1 vol. 8vo. New York, n.d. Presented		19862	SMITH, R. Brough. The Aborigines of Victoria. . . . 2 vols. 4to. Melbourne and London, 1878. Purchased	
19334	NORWEGIAN AND NORTH ATLANTIC EXPEDITION. 1876-1878. Zoology, Hydroids, by K. Bonnevie. 1 vol. Fol. Christiania, 1899. Purchased		19845	SHARPE, R. Bowler. A Review of Recent attempts to Classify Birds. An address delivered before the Second International Ornithological Congress on the 18th of May, 1891. (II. International Ornithological Congress). 1 vol. 8vo. Budapest, 1891. Purchased	
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19760	OWEN, Richard. Antiquity of Man as deduced from the discovery of a human skeleton during the excavations of the East and West India Dock Extensions at Tilbury, North Bank of the Thames. 1 vol. 8vo. London, 1884. Purchased		19778	SIMMONDS, P. L. The Commercial Dictionary of Trade Products, Manufacturing and Technical Terms; with a definition of the moneys, weights, and measures of all countries, reduced to the British Standard. 1 vol. 8vo. London, 1883. Purchased	
19785	PARKER, W. Newton. Elements of the Comparative Anatomy of Vertebrates. 1 vol. 8vo. London, 1886. Purchased		19762	STARCKE, C. N. The Primitive Family in its Origin and Development. 1 vol. 8vo. London, 1889. Purchased	
19761	PHILLIPS, John. Figures and Descriptions of the Palaeozoic Fossils of Cornwall, Devon, and West Somerset; observed in the course of the Ordnance Geological Survey of that district. 1 vol. 8vo. London, 1841. Purchased		19547	STEAD, David G. Notes on Eggs and Breeding Habits of Fishes. 1 vol. 8vo. Sydney, 1907. Presented	
19752	QUEKETT, John. Lectures on Histology, delivered at the Royal College of Surgeons of England, in the session 1850-51. Elementary tissues of plants and animals. 1 vol. 8vo. London, 1852. Purchased		19561	STEJNEGER, Leonard, and Thomas BARBOUR. A Check-list of North American Amphibians and Reptiles. 1 vol. 8vo. Cambridge (Mass.), 1917. Purchased	
19850	RATHBUN, Richard. A Descriptive Account of the Building recently erected for the Departments of Natural History of the United States National Museum. (U.S. Nat. Mus., Bull. 80.) 1 vol. 8vo. Washington, 1913. Purchased		19846	STERZEL, J. T. Die Flora Rotliegenden von Oppenau im Badischen Schwarzwalde. (Blatt. Petersthal-Reichenbach.) (Mittheilungen der Grossh. Badischen Geologisch. Landesanstalt, III, 2, 1895). 1 vol. 8vo. Heidelberg, 1895. Purchased	
19614	REDI, Francesco, of Arezzo. Experiments on the Generation of Insects. Translated from the Italian edition of 1688 by Mab. Bigelow. 1 vol. 8vo. Chicago, 1909. Purchased		19853	STOW, J. P. South Australia; its History, Productions and Natural Resources. Written for the Calcutta Exhibition by the request of the South Australian Government. Second edition. 1 vol. 8vo. Adelaide, 1884. Purchased	
19571	REEVE, Lovell. Initamenta Conchologica or Elements of Conchology, comprising the Physiological History of Shells and their Molluscous Inhabitants. 1 vol. 8vo. London, 1846. Purchased		19874	SQUIER, E. George. Peru. Incidents of Travel and Exploration in the Land of the Incas. 1 vol. 8vo. London, 1877. Purchased	
19789	RICHTHOFEN, Ferdinand von. China. Ergebnisse eigener Reiser und darauf gegründeter Studien. Band IV. Palaeontologischer Theil. 1 vol. 4to. Berlin, 1883. Purchased		19793	SUSSMILCH, C. A. An Introduction to the Geology of New South Wales. (Dept. of Public Instruction, Techn. Education Branch.) 1 vol. 8vo. Sydney, 1911. Purchased	
19774	ROBINSON, Charles Henry. Hausaland, or Fifteen Hundred Miles Through the Central Soudan. 1 vol. 8vo. London, 1896. Purchased		19576	THOMPSON, D'Arcy W. On Growth and Form. 1 vol. 8vo. Cambridge, 1917. Presented by C. Hedley	
			19763	THOMPSON, Rev. Joseph B. Photographic Views of Egypt, Past and Present. 1 vol. 8vo. Glasgow, n.d. Purchased	
			19783	TOUCHE, J. D. La. A Handbook of the Geology of Shropshire. 1 vol. 8vo. London and Shrewsbury, 1884. Purchased	
			19848	ULRICH, E. O. Revision of the Paleozoic Systems. (Geol. Soc. of America, Bull., xxii). 1 vol. 8vo. Rochester, N.Y. 1911. Purchased	
			19625	UNITED STATES EXPLORING EXPEDITION during the years 1838, 1839-1842, under the command of Charles Wilkes, U.S.N. Ethnography and Philology by Horatio Hale. 1 vol. 4to. Philadelphia, 1846. Purchased	

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19615	VAYSSIERE, A., and Louis GERMAIN. Mollusques de la France et des Régions Voisines. Tome I.—Amphineures, Gastéropodes, Opisthobranches, Hétéropodes, Marséniadés et Oncidiides par A. Vayssiere. Tome II.—Gastéropodes Pulmonés et Proso-branches Terrestres et Fluviales par Louis Germain. 2 vols. 8vo. Paris, 1913. Purchased		19697	COMMONWEALTH OF AUSTRALIA. Historical Records of Australia, Series I, Governor's Despatches to and from England. Vol. XII, June, 1825—December, 1826. 1 vol. 8vo. Sydney, 1919. Presented	
19541	WAUGH, James W. The Stranger's Guide to Sydney, arranged in a series of walks, with a map of the city, and directory of the various streets and public buildings . . . 1 vol. Sm. 8vo. Sydney, 1861. Purchased		19592	—Official Year Book . . . 1901-1918. . . . No. 12, 1919. 1 vol. 8vo. Melbourne, 1919. Presented	
19839	WAWN, William T. The South Sea Islanders and the Queensland Labour Trade. A Record of Voyages and Experiences in the Western Pacific from 1875-1891. 1 vol. 8vo. London, 1893. Purchased			NEW SOUTH WALES.	
19557	WEGENER, George. Deutschland im Stillen Ozean; Samoa, Karolinen, Marshall-Inseln, Marianen, Kaiser Wilhelm's Land, Bismarck-Archipel und Salomo-Inseln. (Land und Leute Herausg. von A. Scobel, xv). 1 vol. 8vo. Bielefeld und Leipzig, 1903. Purchased		19701	ENGINEERING ASSOCIATION OF N.S.W. Minutes of Proceedings. Vol. XXXIII, 1917-18. 1 vol. 8vo. Sydney, 1919. Presented	
19776	WHITE, C. A., and H. Alleyne NICHOLSON. Bibliography of North American Invertebrate Palaeontology; being a report upon the publications that have hitherto been made upon the Invertebrate Palaeontology of North America, including the West Indies and Greenland. 1 vol. 8vo. Washington, 1878. Purchased		19542	GEOLOGICAL SURVEY. Mineral Resources, No. 25. The Limestone Deposits of N.S.W., by J. E. Carne and L. J. Jones. 1 vol. 8vo. Sydney, 1919. Presented	
19678	WIEGMAN, F. Landmollusken (Stylommato-phoren) Zoatomischer Teil. 1 vol. 4to. Frankfurt, a.m., 1898. Purchased		19702	PUBLIC INSTRUCTION, Minister of. Report (together with appendices) for the year 1918. 1 vol. Fol. Sydney, 1919. Presented	
19755	WILKINSON, J. Gardiner. A popular account of the Ancient Egyptians. Revised and abridged from his larger works. Vols. I-II. New edition. 2 vols. 8vo. London, 1871-74. Purchased		19591	TARONGA ZOOLOGICAL PARK. Wild Animals of the World, being a popular guide to . . . by Charles Hedley. 1 vol. 8vo. Sydney, 1919. Presented by C. Hedley	
19756	WILKINSON, J. Gardiner. A popular account of the Ancient Egyptians. Revised and abridged from his larger works. Vols. I-II. New edition. 2 vols. 8vo. London, 1871-74. Purchased		19703	TECHNOLOGICAL MUSEUM. Technical education series, No. 23, the Hardwoods of Australia and their Economics, by Richard T. Baker. 1 vol. Fol. Sydney, 1919. Presented	
19395	WOLF, Joseph. The Life and Habits of Wild Animals, illustrated by designs by Joseph Wolf, engraved by J. W. and E. Whymper, with descriptive letterpress by Daniel G. Elliot. 1 vol. 4to. London, 1874. Purchased			NEW ZEALAND.	
19563-	WOOD, J. G. The Illustrated Natural History, Class Mammalia, Birds, Reptiles, Fishes, Molluscs, &c. 3 vols. 8vo. London, 1862-1863. Presented by C. Hedley		19545	NEW ZEALAND. Official Year-book, 1918-19. 2 vols. 8vo. Wellington, 1918-1919. Presented	
19565	WOOD, J. G. The Illustrated Natural History, Class Mammalia, Birds, Reptiles, Fishes, Molluscs, &c. 3 vols. 8vo. London, 1862-1863. Presented by C. Hedley		19743	NEW ZEALAND INSTITUTE. Transactions and Proceedings, Vol. LI (new issue). 1 vol. 8vo. Wellington, 1919. Presented	
19566	WOOD, W. Index Testaceologicus; or, A Catalogue of Shells, British and Foreign, arranged according to the Linnean System, with the Latin and English names, references to figures, and places where found. Edition corrected and enlarged. 2 vols. 8vo. London, 1818 and 1828. Presented			LONDON.	
19567	WOOD, W. Index Testaceologicus; or, A Catalogue of Shells, British and Foreign, arranged according to the Linnean System, with the Latin and English names, references to figures, and places where found. Edition corrected and enlarged. 2 vols. 8vo. London, 1818 and 1828. Presented			ANNALS AND MAGAZINE OF NATURAL HISTORY.	
19775	WOODS, Henry. Catalogue of the Type Fossils in the Woodwardian Museum, Cambridge, with a preface by T. McKenny Hughes. Additions to type fossils in the Woodwardian Museum. (Geological Magazine (3) x, 1893). 1 vol. 8vo. Cambridge, 1891. Purchased		19646	8th Series, Vol. XVII, 1916.	
19802-	ZITTEL, Karl A. Traité de Paléontologie par Karl A. Zittel avec la collaboration de W. Ph. Schimper et A. Schenk, traduit par Charles Barrois, Partie I . . . Tome I, 1883; II, 1887; III, 1893; IV, 1894. Partie II, Paléophytologie, 1891. 5 vols. 8vo. Paris, Munich, and Leipzig, 1891. Purchased		19647	" " " XVIII, 1916.	
19806	ZITTEL, Karl A. Traité de Paléontologie par Karl A. Zittel avec la collaboration de W. Ph. Schimper et A. Schenk, traduit par Charles Barrois, Partie I . . . Tome I, 1883; II, 1887; III, 1893; IV, 1894. Partie II, Paléophytologie, 1891. 5 vols. 8vo. Paris, Munich, and Leipzig, 1891. Purchased		19648	" " " XIX, 1917.	
			19649	" " " XX, 1917.	
			19650	9th " " " I, 1918.	
			19651	" " " II, 1918.	
			19652	" " " III, 1919.	
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				8 vols. 8vo. London, 1916-1919. Purchased	
			19560	BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Report, 1918. 1 vol. 8vo. London, 1919. Presented	
			19777	BRITISH MUSEUM. A Guide to the First and Second Egyptian Rooms. 1 vol. 8vo. London, 1898. Purchased	
				GEOLOGICAL MAGAZINE.	
			19659	New Series, Decade VI, Vol. III, 1916.	
			19660	" " " VI, " IV, 1917.	
			19661	" " " VI, " V, 1918.	
				3 vols. 8vo. London, 1916-1918. Purchased	
			19662	GEOLOGISTS' ASSOCIATION. Proceedings, Vols. XXVI-XXVII, 1915-1916. 1 vol. 8vo. London, 1915-1916. Purchased	
				LINNEAN SOCIETY.	
			19675	Journal—Zoology. Vol. XXXII, 1911-1916.	
			19676	" " " XXXIII, 1916-1919. 2 vols. 8vo. London, 1911-1919. Presented	
				QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE.	
			19679	Vol. LXI, New Series, 1916.	
			19680	" LXII, " 1917.	
			19681	" LXIII, " 1919.	
				3 vols. 8vo. London, 1916-1919. Purchased	
				NATURE.	
			19654	Vol. xcvi, 1916.	
			19655	" xcvi, 1916-1917.	
			19656	" xcix, 1917.	
			19657	" c, 1917-1918.	
			19658	" ci, 1918.	
				5 vols. 4to. London, 1916-1918. Purchased	

PART II.—PERIODICALS.

INTERNATIONAL.

INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.

19573	14th Annual Issue, D. Chemistry.
19574	" " K. Palaeontology.
19593	" " O. Anatomy.
19698	" " P. Anthropology.
	4 vols. 8vo. London, 1919. Purchased

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19559	RAY SOCIETY. The British Freshwater Rhizopoda and Heliozoa, by James Cash and George Herbert Wailes, assisted by John Hopkinson. Vol. iv. Supplement to the Rhizopoda by G. H. Wailes, and bibliography by John Hopkinson. (Issued for the year 1918.)	1 vol. 8vo. London, 1919. Purchased		LIVERPOOL MARINE BIOLOGY COMMITTEE—	
	ROYAL COLONIAL INSTITUTE. United Empire, N.S.		19704	The Marine Biological Station at Port Erin being the 33rd annual report . . . along with a short summary of the History and work of the L.M.B.C.	Presented
19663	Vol. vi, 1915.			1 vol. 8vo. Liverpool, 1919.	
19664	" vii, 1916.			L.M.B.C. Memoirs on Typical British marine plants and animals, edited by W. A. Herdman.	
19665	" viii, 1917.		19706	II. Cardium, by W. J. Dakin, Liverpool, 1899.	
19666	" ix, 1918.		19707	XVII. Pecten by W. J. Dakin, London, 1909.	
19667	" x, 1919.		19708	XVIII. Eledone by Annie Isgrove, London, 1909.	
	5 vols. 8vo. London, 1915-1919.	Presented		3 vols. 4to. London and Liverpool, 1899, 1909.	Presented
19618	ROYAL GEOGRAPHICAL SOCIETY. The Antarctic Manual for the use of the Expedition of 1901. Edited by George Murray . . . with a preface by Sir Clements R. Markham. Presented to the Expedition and issued by the Royal Geographical Society.	1 vol. 8vo. London, 1901. Purchased		CANADA.	
	ROYAL MICROSCOPICAL SOCIETY.		19864	ONTARIO. The Minister of Education. Annual Archaeological Report, 1903-1907.	
19677	Journal, 1916.			1 vol. 8vo. Toronto, 1904-1908.	Presented
19678	" 1917.			UNITED STATES OF AMERICA.	
	2 vols. 8vo. London, 1916-1917.	Purchased		District of Columbia.	
	ROYAL SOCIETY OF LONDON, Philosophical Transactions.		19562	U. S. DEPARTMENT OF AGRICULTURE.	
19716	Ser. A, vol. 212, 1913.			'Year Book, 1918.	
19717	" 213, 1914.			1 vol. 8vo. Washington, 1919.	Presented
19718	" 214, 1914.		19643	—Bureau of Animal Industry, Bull. 39, Index-Catalogue of Medical and Veterinary Zoology.	
19719	" 215, 1915.			1 vol. 8vo. Washington, 1902-1911.	Presented
19720	" 216, 1916.			AMERICAN ETHNOLOGY, Bureau of—	
19721	" 217, 1918.		19584	Bulletin 59. Kutenai Tales, Franz Boas, 1918.	
19722	" 218, 1919.		19585	" 64. The Maya Indians of Southern Yucatan and Northern British Honduras, T. W. F. Gann, 1918.	
19723	" 219, 1919.			" 65. Archaeological Explorations in North-eastern Arizona. Alfred V. Kidder and Samuel J. Guernsey, 1919.	
19724	B, vol. 202, 1912.		19699	" 60. Handbook of Aboriginal American Antiquities, Part I, Introductory Note by W. H. Holmes, 1919.	
19725	" 203, 1913.		19700	" 70. Prehistoric villages, castles, and towers of south-western Colorado by J. Walter Fewkes, 1919.	
19726	" 204, 1914.			5 vols. 8vo. Washington, 1918-1919.	Presented
19727	" 205, 1914.		19587	" 32. Annual Report, 1910-1911.	
19728	" 206, 1915.			1 vol. 4to. Washington, 1918.	Presented
19729	" 207, 1916.			CARNEGIE INSTITUTION OF WASHINGTON, Department of Marine Biology.	
19730	" 208, 1918.		19552	Papers from the Tortugas Laboratory, Vol. V-VI, 1914.	
	15 vols. 4to. London, 1912-1919.	Purchased	19553	Papers from the Department of Marine Biology, VII-XII, 1915-1918.	
19544	ROYAL SOCIETY OF LONDON, Year-book, 1919.		19555	4 vols. 8vo. Washington, 1914-1918.	Purchased
	1 vol. 8vo. London, 1919.	Presented		U. S. FISHERIES, Bureau of—	
19543	YEAR-BOOK of the Scientific and Learned Societies of Great Britain and Ireland; a record of the work done in Science, Literature, and Art during the session 1917-1918, by numerous societies and institutions (Government). Compiled from official sources, 35th and 36th annual issues, 1918-1919.		19579	Bulletin, vol. xxxv, 1915-16.	
19694	" 2 vols. 8vo. London, 1918-1919.	Purchased		1 vol. 4to. Washington, 1918.	Presented
	ZOOLOGICAL MUSEUM, TRING—		19695	Report for the year 1916, with appendices (1917).	
19668	Novitates Zoologicae, vol. xxii, 1915-1916.		19696	Report for the year 1916, with appendices (1919).	
19669	" " xxiii, 1916-1917.			2 vols. 8vo. Washington, 1917-1919.	Presented
19670	" " xxiv, 1917-1918.		19580	U. S. COMMISSION ON FUR-SEAL INVESTIGATIONS. The Fur Seals and Fur-Seal Islands of the North Pacific Ocean, by David Starr Jordan . . . Commissioner in charge of fur-seal investigations of 1896-97 . . . with special papers by other contributors. Parts 1-3.	
19671	" " xxv, 1918-1919.		19582	3 vols. 4to. Washington, 1898-1899.	Presented
	4 vols. 8vo. London, 1915-1919.	Presented	19541	U. S. NATIONAL MUSEUM, Report . . . for the year ending 30th June, 1918.	
19692	ZOOLOGICAL RECORD, vol. LIII-LIV			1 vol. 8vo. Washington, 1919.	Presented
19693	Relating chiefly to the years 1916-1917.				
	2 vols. 8vo. London, 1919.	Purchased			
	ZOOLOGICAL SOCIETY OF LONDON—				
19672	Proceedings, 1916.				
19673	" 1917-18.				
	2 vols. 8vo. London, 1916-1918.	Presented			
19674	ZOOLOGIST. A Monthly Journal of Natural History, 4th Series, vol. xx, 1916. (Ceased publishing as separate journal, but amalgamated with "British Birds").				
	1 vol. 8vo. London, 1916.	Purchased			
	ENGLAND.				
19705	LIVERPOOL BIOLOGICAL SOCIETY. Proceedings and Transactions, vol. XXXIII, Session 1918-1919.				
	1 vol. 8vo. Liverpool, 1918-1919.	Presented			