

1918.

LEGISLATIVE ASSEMBLY.

NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30TH JUNE, 1918.)

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

Printed under No. 18 Report from Printing Committee, 5 December, 1918.

TO HIS EXCELLENCY THE GOVERNOR,—

The Trustees of the Australian Museum have the honour to submit to your Excellency their Sixty-fourth Report, being for the year ended 30th June, 1918.

1. TRUSTEES.

Within a day of the close of the last financial year took place the death of the Hon. Frederick Earle Winchcombe, M.L.C., on the 29th June, 1917, at Bombay, India, through the sinking of the R.M.S. "Mongolia." By Mr. Winchcombe's death the Institution has to deplore the loss of an energetic, wise and courteous counsellor.

Only one change took place in the personnel of the Board during the past year, by the seat of the Director-General of Public Works (J. Davis, Esq., M.I.C.E.) becoming vacant through Mr. Davis leaving New South Wales. The vacancy was filled by the appointment of the Hon. Richard Thomas Ball, Secretary for Public Works and Minister for Railways. Prof. T. W. E. David is still absent on military duty; and six months' leave of absence was granted to Colonel R. E. Roth, C.M.G., D.S.O., &c., for the performance of similar home duties. In May, owing to the temporary absence of the President (Mr. H. H. B. Bradley), Dr. T. S. Dixon was appointed Acting-President.

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

*Crown Trustee.*

H. H. B. Bradley, Esq., President	...	...	...	...	...	...	...	9
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*Official Trustees.*

His Honor the Chief Justice	...	...	...	...	...	...	...	—
The Hon. the President of the Legislative Council	...	...	...	...	...	...	...	—
The Hon. the Colonial Secretary	...	...	...	...	...	...	...	—
The Hon. the Attorney-General	...	...	...	...	...	...	...	—
The Hon. the Colonial Treasurer	...	...	...	...	...	...	...	—
The Hon. the Secretary for Public Works and Minister for Railways	...	...	...	...	...	...	...	—
The Hon. the Minister for Public Instruction	...	...	...	...	...	...	...	—
The Auditor-General	...	...	...	...	...	...	...	11
The President, Medical Board	...	...	...	...	...	...	...	—
The Surveyor-General and Chief Surveyor	...	...	...	...	...	...	...	—
The Crown Solicitor	...	...	...	...	...	...	...	—



*Elective Trustees.*

Prof. W. A. Haswell, M.A., D.Sc., F.R.S....	...	...	...	...	...	...	10
*Prof. T. W. E. David, B.A., C.M.G., F.R.S.	...	...	...	...	...	...	—
Prof. J. T. Wilson, M.B., Ch.M., F.R.S.	...	...	...	...	...	...	7
T. Storie Dixon, Esq., M.B., Ch.M.	...	...	...	...	...	...	9
W. H. Hargraves, Esq.	...	...	...	...	...	...	7
*Colonel R. E. Roth, C.M.G., D.S.O., V.D., M.R.C.S.E.	...	...	...	...	...	...	3
Eric Sinclair, Esq., M.D.	...	...	...	...	...	...	6
Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C.	...	...	...	...	...	...	6
J. R. M. Robertson, Esq., M.D., C.M.	...	...	...	...	...	...	8
Ernest Wunderlich, Esq.	...	...	...	...	...	...	5
G. H. Abbott, Esq., B.A., M.B., Ch.M.	...	...	...	...	...	...	8
J. Vernon, Esq.	...	...	...	...	...	...	6

In July, 1917, the Trustees, desirous of abridging the proceedings at Board Meetings, established two Committees—the House Committee and the Scientific and Publication Committee—in addition to the already existing Finance Committee. The duties assigned to the House Committee are to deal generally with (a) all matters affecting the Staff, (b) structural alterations or additions, and (c) to approve of that portion of the Annual Report dealing with internal matters. The functions of the Scientific and Publication Committee are to control publications, the acquisition of collections and books, periodical inspection of the Museum and its contents, and to approve of that portion of the Annual Report dealing with Scientific matters in general. In addition to a supervision of the general financial operations of the Institution, the Finance Committee has control of requisitions for stores, and a similar duty in relation to the Annual Report as vested in the other two Committees.

The members of these Committees are as follow, the President of the Board (Mr. H. H. B. Bradley), when present, being Chairman *ex officio* of each Committee:—

*House Committee—*

Mr. F. A. Coghlan (Chairman).  
Prof. W. A. Haswell.  
†Mr. J. Vernon.  
Dr. T. S. Dixon.

*Scientific and Publication Committee—*

Prof. J. T. Wilson (Chairman).  
\*Prof. T. W. E. David.  
Prof. W. A. Haswell.  
Dr. E. Sinclair.  
Dr. G. H. Abbott.

*Finance Committee—*

Mr. E. Wunderlich (Chairman).  
Sir James Burns.  
Mr. W. H. Hargraves.  
\*Colonel R. E. Roth.

## 2. STAFF.

Two important alterations were made in the constitution of the Staff. After mature consideration and inquiry, the Trustees decided to abolish the two positions of Secretary and Ornithologist, formerly occupied by the late Messrs. S. Sinclair and A. J. North respectively. The duties of the first mentioned were undertaken by the Curator, whose official title was at the same time changed to that of Director and Curator, bringing the Institution in line with modern usage and securing an unquestionable directorate. As a referee in Ornithological matters, an Honorary Ornithologist was appointed in the person of Mr. Arthur Francis Basset Hull, of the Department of Mines, and a well-known bird lover and authority. As a secondary consequence of the late Secretary's death, Mr. W. A. Rainbow, who held the position of Assistant Librarian, was promoted to that of Librarian.

The Trustees were applied to by the University of Sydney authorities, towards the end of the year, for tutorial assistance, in consequence of a serious depletion in their teaching staff, accompanied by a large increase in the attendance of students. The services of Dr. C. Anderson and Mr. E. A. Briggs, the former as Lecturer in Mineralogy for Trinity Term, and the latter as Demonstrator in Zoology for Lent Term, were conditionally lent to the Senate.

Mr. Rex W. Bretnall, Junior Assistant, returned from abroad and was discharged from military duty on 19th January, 1918, and resumed his duties. Mr. J. Roy Kinghorn, Junior Assistant, returned on 13th June, but in consequence of necessary medical treatment will not receive his discharge for some little time. Mr. E. Le Geyt Troughton, Junior Assistant, left for abroad in the Army Medical Corps on 8th August, 1917. Messrs. J. Kingsley, Articulator's Assistant, and A. Mackay, Senior Night Attendant, are still on active service abroad.

To replace Mr. R. Grant, retired from the position of Taxidermist, Mr. Henry Sneddon Grant was promoted to the position from that of Taxidermist's Assistant, and again to fill the latter J. H. Wright was transferred from the body of Attendants. The two vacancies amongst the latter, caused by Mr. Wright's transfer and that of Mr. John Flanagan, to be Messenger, were filled by the appointment of Messrs. E. T. Hill and D. Massey respectively.

The

\* Leave of absence granted for military duty.

† Resigned and was succeeded by Dr. J. R. M. Robertson.



The Trustees much regret to report the loss of the services of their Honorary Collector in the Bismarck Archipelago and Bougainville Island (Private W. J. Potter, A.I.F.), who returned in March, 1918, and received his discharge. His efforts, often carried out under trying circumstances, were highly appreciated by the Trustees.

In consequence of the resignation of Night Attendant C. E. Long, Temporary Night Attendant M. Mackay was promoted, and to take his place ex-Sergeant J. T. Healy was appointed on 1st February, 1918.

Following is a list of the Museum Staff during 1916-17:—

Name and Office.	Date of first appointment in the Museum.	Date of appointment to present position.
Robert Etheridge, Junr., J.P., Director and Curator ... ..	18 April, 1887	1 Jan., 1895 & 3 Aug., 1917
Charles Hedley, J.P., Assistant Curator ... ..	1 „ 1891	20 Dec., 1908
Charles Anderson, M.A., D.Sc., Mineralogist ... ..	22 Sept., 1901	22 July, 1901
Wm. J. Rainbow, J.P., Entomologist ... ..	1 „ 1896	1 Sept., 1896
Allan R. McCulloch, Zoologist ... ..	1 „ 1901	1 July, 1906
Wm. W. Thorpe, Ethnologist and Curator's Assistant ... ..	9 Oct., 1899	1 „ 1906
E. A. Briggs, B.Sc., Zoologist ... ..	1 June, 1912	1 June, 1912
T. H. Johnston, M.A., D.Sc., Hon. Zoologist ... ..	6 Mar., 1908	5 Mar., 1909
Edw. F. Hallmann, B.Sc., Hon. Zoologist ... ..	9 „ 1909	1 April, 1912
A. F. B. Hull, Hon. Ornithologist ... ..	7 Sept., 1917	7 Sept., 1917
Wm. A. Rainbow, Librarian ... ..	1 Aug., 1904	10 „ 1917
Jas. A. Trimble, Accountant ... ..	1 July, 1909	1 Oct., 1916
T. A. Murphy, Clerk ... ..	1 May, 1911	1 „ 1916
W. Cleary, Library Clerk ... ..	13 April, 1917	13 April, 1917
*Rex W. Bretnall, Junior Assistant ... ..	11 Feb., 1907	1 July, 1911
*Ellis Le Geyt Troughton, Junior Assistant ... ..	13 „ 1908	1 Jan., 1913
*J. Roy Kinghorn, Junior Assistant ... ..	1 Sept., 1907	1 July, 1915
Anthony Musgrave, Entomologist's Assistant ... ..	7 Feb., 1910	1 Jan., 1915
F. A. McNeill, Zoologist's Clerk ... ..	18 May, 1914	14 Dec., 1914
Benton S. Lucas, Artificer ... ..	1 Mar., 1883	4 May, 1906
Jas. W. Woodhead, Printer ... ..	27 Sept., 1897	27 Sept., 1897
Thos. A. Henson, Carpenter ... ..	1 May, 1902	8 May, 1906
Chas. G. Clutton, Articulator ... ..	25 April, 1904	1 „ 1913
Henry S. Grant, Taxidermist ... ..	5 Oct., 1909	2 Mar., 1918
Herbert Jackson, Assistant to Artificer ... ..	9 June, 1910	9 June, 1910
*Joseph Kingsley, Assistant to Articulator ... ..	21 July, 1913	21 July, 1913
J. H. Wright, Assistant to Taxidermist ... ..	13 May, 1908	5 Nov., 1917
John Flanagan, Messenger ... ..	1 July, 1909	1 Oct., 1916
— John Cronin, Chief Attendant ... ..	5 „ 1909	5 July, 1909
— Robert Long, Senior do ... ..	3 April, 1894	8 Feb., 1897
— Arthur Barnes, First do ... ..	7 Dec., 1897	1 Jan., 1905
— J. T. Lee, Attendant ... ..	11 Sept., 1905	5 April, 1909
— T. Rochford do ... ..	1 May, 1911	1 June, 1911
— R. L. Carrick do ... ..	14 June, 1911	1 July, 1911
— John Watson do ... ..	8 May, 1914	1 June, 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
— Mrs. K. Fraser do ... ..	1 April, 1889	1 April, 1889
*Alexander Mackay, Night Attendant ... ..	13 Mar., 1915	13 Mar., 1915
— Murdock Mackay do ... ..	11 Sept., 1915	5 Oct., 1917
— J. T. Healy, Temporary Night Attendant ... ..	1 Feb., 1918	1 Feb., 1918

\* Absent on military duty during year.

### 3. VISITORS.

The Museum continued open throughout the year during the usual hours, viz.:—On week-days (Mondays excepted), 10 a.m. to 5 p.m., and on Sundays from 2 to 5 p.m. The number of visitors recorded on week-days was 140,977, averaging 534 per day, and on Sundays 59,920, averaging 1,440 per day, making a total of 200,897. On Mondays, except when a public holiday falls on that day, the Museum is closed for cleaning; but in the afternoon students and pupils of public and private schools, with their teachers, also artists, photographers and others are admitted and given every facility for study.

### ATTENDANCE



## ATTENDANCE OF VISITORS.

					SUMMARY.		Total.
					Week-days	Sundays.	
1860	...	...	...	...	11,300	.....	11,300
1861-1870, average	...	...	...	...	67,145	.....	67,145
1871-1880	...	...	...	...	91,500	*35,123	102,046
1881-1890	...	...	...	...	84,764	43,360	128,124
1891-1900	...	...	...	...	87,788	33,338	121,126
1901-1910	...	...	...	...	125,666	38,790	164,456
1911	...	...	...	...	102,148	43,874	146,022
1912	...	...	...	...	161,557	60,726	222,283
1913 (January to June)	...	...	...	...	73,702	22,683	96,385
1913-1914	...	...	...	...	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

\* For 1878-79-80 only.

## 4. BUILDINGS AND GROUNDS.

The Museum building and out-premises have been maintained in a thorough state of repair, through the liberality of the Government in providing a special Maintenance Vote for the purpose. The Trustees, however, offer no excuse for repeating a paragraph from the previous year's Report bearing on the subject of Museum extension:—"Every portion of the building is now occupied either for exhibition, administrative, bibliographical or storage purposes, and as a result of this difficulty the affairs of the Institution are hampered, and its activities in some respects brought to a standstill. No degree of rearrangement, or interchange of duties, can alter this state of affairs. The only relief possible is to considerably extend the building, for which there are three alternative schemes in existence, and, for one of these, plans already drawn. Unless one or other of these be taken in hand without delay, the Australian Museum will gradually lapse into that most unenviable of positions graphically described by Dr. Brown Goode as a 'dead museum.' And this notwithstanding the large and most creditable amount of research work carried on; but this line of activity will not alone keep a museum on its feet. The public must and have to be considered, and the only method of attracting first public curiosity and then appreciation is by well arranged and illustrated exhibition spaces."

In last year's Report (1916-17) the Trustees recounted their transactions with the Municipal Council of Sydney, in the matter of the resumption of a portion of their grant by the latter body, bringing those transactions down to the 6th June, 1917. In the last paragraph of the Trustees' remarks\* the non-delivery of a formal "Notice of Valuation" is commented on. This was not received by the Trustees' solicitors until 28th August, 1917, and therein the amount expressed as intended to cover all items of claim on behalf of the Trust is £4,950, or £150 per foot on an average frontage of 33 feet to College-street, although the strip actually taken by the Council is 34 feet. This sum of £4,950 is intended to cover all items of claim, such as "damage by severance" and the cost of renovating the street frontage.

As the Resumption Committee considered this offer of £4,950 to require explanation, the solicitors were instructed to secure a resumption of the "collapsed" conference of 12th January, 1917. This took place on 12th October, 1917, when the Trustees' solicitor, then present, suggested a revaluation of the strip of ground resumed, on the basis of a recent valuation of the entire grant, made on behalf of the Trustees, and which proportionately assigned to the strip of land taken a value of £10,746 odd. This proposal was referred to the Council's valuers for consideration, with the result that the Council determined to maintain the previously mentioned sum of £4,950. On receiving this intimation the Resumption Committee, on 13th November, 1917, instructed the solicitors in the case to obtain further expert valutory opinion in support of their claim, and also to retain counsel on behalf of the Trust.

## 5. EXHIBITION CASES.

A large plate-glass case was constructed for Crocodiles in the Reptile Gallery, a long-wanted improvement; a fine Oological cabinet for the North Collection of Australian Birds' Eggs, and two commodious bookcases, are worthy of record amongst the quantity of miscellaneous work performed by the artificer and carpenters.

## 6. PRINTING.

During the past year 17,877 labels, large and small, were printed by the printer, distributed generally throughout the Museum, and also for official purposes. The labels attached to specimens are of two kinds—(a) a name and locality label, pure and simple, with name of donor when presented to the Trustees; (b) the same accompanied by descriptive matter. In addition to these there are many "group" labels—i.e., larger and more conspicuous cards affording information of the family, class, or group to which certain of the surrounding objects belong.



## 7. LECTURES.

The following were the Monthly Lectures delivered on Thursday evenings at 8 o'clock:—

1917.

- 12th July—"Hunters and Hunted," A. R. McCulloch.  
 9th August—"Architects and Aeronauts," No. 1, W. J. Rainbow.  
 13th September—"Architects and Aeronauts," No. 2, W. J. Rainbow.  
 11th October—"Numismatics," G. H. Abbott, B.A., M.B., Ch.M.

1918.

- 11th April—"Carnivora, or Flesh-eating Animals," C. Hedley.  
 9th May—"Earth History, and How it is Read," C. Anderson, M.A., D.Sc.  
 13th June—"Curiosities of Aquatic Insect Life," No. 1, W. J. Rainbow.

The attendance of the public was exceptionally good and evinced the popularity of these lectures.

## 8. PUBLICATIONS.

The publications issued by the Trustees during the year were:—

"Records of the Australian Museum," xi, 1917—

Part 10—"Palæontologia Novæ Cambriæ Meriodionalis—Occasional Descriptions of New South Wales Fossils," No. 6, by R. Etheridge, Junr.

"Obituary—Sutherland Sinclair," by R. Etheridge, Junr.

Part 11—"Studies in Australian Crustacea," No. 4, by A. R. McCulloch.

"An Australian *Amphipora*," by R. Etheridge, Junr.

Part 12—"Index, title page, contents," &c., of Vol. xi.

*Ibid.*, xii, 1917—

Part 1—"Notes on the Victorian species of *Bullinus*," by C. Hedley.

*Ibid.*, xii, 1918—

Part 2—"Some Australian Blennioid Fishes," by A. R. McCulloch and F. A. McNeill.

Part 3—"Descriptions of Two New Hydroids, and a Revision of the Hydroid Fauna of Lord Howe Island," by E. A. Briggs, B.Sc.

Part 4—"Two Remarkable Corals from the Devonian of New South Wales," by R. Etheridge, Junr.

Part 5—"Studies in Australian Tabanidæ," by F. H. Taylor.

In their last Report the Trustees referred to researches made by the Director and Curator into the early history of the Museum, and it was stated that a future portion of the History would contain an account of the peregrinations of the Collection before it was finally housed in the present building. This account, bringing the history down to 1864, is now ready for the hands of the printer.

It was thought advisable to alter the size of our modest publication, the "Records," from royal octavo to crown quarto, with a view of economy in illustration and a better arrangement of the subject-matter. The reserve stock of Museum publications is in good order, and ample to meet all reasonable requirements for some years to come.

## 9. ACQUISITIONS.

In two previous Reports attention was drawn to the storage of the New Guinea Official Ethnological Collection on trust, which in 1917-18 was considerably added to. During a recent visit to Sydney His Excellency the Lieutenant-Governor of British New Guinea (His Honor Judge Murray) inspected the arrangements made for the safe keeping of this valuable collection, and, the Trustees are pleased to report, that His Excellency expressed his entire approval.

The principal acquisitions, under the following headings, were as follow:—

## (a) DONATIONS.

*Mammals*.—Mammals, as usual, were received from the Trustees of the Taronga Park Zoological Gardens, including a young Hippopotamus (*Hippopotamus amphibius*) and several examples of the Yellow-footed Pouched Mouse (*Phascogale flavipes*). A fine series of Rabbits (*Lepus cuniculus*) from the Manilla District, New South Wales, showing the following colour variations, black, blue, yellow, long-haired and piebald—Mr. — Collier; a valuable addition to the collections is a specimen of one of the Tree Kangaroos (*Dendrolagus dorianus*), from the Mafula District, 50 to 60 miles inland from Yule Island, British New Guinea, at 4,000 feet—His Excellency the Lieutenant-Governor (His Honor Judge Murray).

*Aves*.—A fine specimen of the Crested Penguin (*Catharactes chrysocome*), caught at Ettalong Beach, Broken Bay, this being a record for New South Wales—Trustees, Taronga Park Zoological Gardens; two King-birds of Paradise (*Cicinnurus regius*) changing from the young to the adult plumage—Mrs. Ellis Rowan and



and Mr. A. E. W. de Berri Wachsmann; Semi-albino Horsfield's Bush Lark (*Mirafrja horsfieldii*)—Mr. Frank Hill; Semi-albino Gillbird (*Anthochæra carunculata*)—Mr. Jack Myers; Semi-albino Magpie Lark (*Grallina picata*)—Mr. W. J. Hill; a pair of the rare Freckled Duck (*Stictonetta nævosa*)—Mr. F. C. Morse; a fine series of abnormal domestic fowl eggs—Messrs. T. Steel and A. F. Basset Hull.

*Reptiles*.—An example of the Loggerhead Turtle (*Thalassochelys caretta*), one of the largest of the Turtles, from Madras, India—The Superintendent, Government Museum, Madras; a young specimen of the Crocodile (*Crocodylus porosus*) from Cuscania Inlet, near Cairns, North-east Queensland—Mr. C. Sloan; a specimen of the same species from the Solomon Islands—Mr. — Cumines; two young Crocodiles reported to have hatched from eggs on the deck of the s.s. "Brisbane," during the run to Sydney from the Solomon Islands—Miss E. Clarke.

*Fish*.—A large collection of Fishes from Lord Howe Island—the late Mr. P. R. Pedley. The State Trawling and Fisheries Department presented a number of Fish, which form a valuable addition to the collection.

*Conchology*.—Shells from King George Sound, West Australia—Prof. W. J. Dakin; paratypes of New Mollusca—Miss M. K. Mestayer, of Wellington, New Zealand, and Mr. Edwin Ashby, Adelaide; Shells from Port Curtis, Queensland, a useful series—Dr. H. L. Kesteven; Victorian Pond Snails—Mr. C. J. Gabriel; a series illustrative of the beach Ecology of Caloundra, Queensland—Dr. T. Harvey Johnston.

*Insecta and Arachnida*.—Australian Aviculariæ, a remarkably fine and valuable collection—Dr. R. H. Pulleine, Adelaide; Tasmanian Diptera—Mr. E. H. Hardy; North Queensland Diptera—Mr. F. H. Taylor; Coleoptera not previously represented—Mr. A. M. Lea.

*Pantopoda (Pycnogonida)*.—Seven type slides of *Halosoma haswelli*, Flynn, a new species of Pycnogonida from Shark Island, Port Jackson, New South Wales. The monotypic genus *Halosoma* had previously been recorded only from North American waters—Prof. T. T. Flynn, B.Sc.

*Annelida (Worms)*.—Seven type slides of Chaetosomatiæ, recently described by Miss V. Irwin-Smith (*Proc. Linn. Soc. N. S. Wales*, xlii, 4, 1918). Until 1914 the Chaetosomatiæ were not known to occur outside the waters of the North Atlantic and Mediterranean Seas. The seven slides represent two new species of *Chaetosoma* and two species of *Notochaetosoma*, a new genus from New South Wales—Miss V. Irwin-Smith, B.Sc.

*Cœlenterata*.—Three specimens of *Peachia hilli*, Wilsmore (larval form), from Broken Bay, New South Wales, recently described by Mr. C. Badham (*Quart. Journ. Micro. Soc.*, lxii, 2, 1917). The larvæ of this Sea Anemone are parasitic in *Crambessa mosaica*, a Medusa which is frequently found in the land-locked harbours along the coast of New South Wales—Mr. C. Badham, B.Sc., M.B.

*Ethnology*.—Dendroglyph from Cliefden Holding, Carcoar, New South Wales—Mr. T. H. Rowlands; Aboriginal Siliceous Flakes, from Bulga District, New South Wales—Mr. A. N. Eather; an exceptionally large Conical Stone, from Lake Yantara Holding, New South Wales—Mr. C. Alma Baker; a fine Carven Memorial or Ancestral Figure, from West Coast of New Ireland—Captain A. L. McLean; Model of Horn Bow, Punjab, India—late Mrs. Wilfred Docker; Crude Stone Axes, Kempsey District, New South Wales—Mr. Austral Verge; Stone Figure from Tahiti, Society Islands—Commander Eardley Wilmot, R.N.

*Numismatics*.—Copper Coins and Traders' Tokens—Miss M. Lackey; Antarctic Medals, 1914-6 (silver and bronze)—The Lords Commissioners of the Admiralty; Badge of "The Returned Sailors and Soldiers' Imperial League"—President and Council of the League.

#### (b) EXCHANGES.

*Reptiles*.—An example of the very rare New Zealand Frog (*Liopelma hochstetteri*) was added to the collection.

*Annelida (Worms)*.—Two type slides of *Desmostrostrongylus castoreus*, gen. et sp. nov., a Nematode from the stomach and small intestine of the American Beaver (*Castor canadensis*).

*Minerals*.—Numerous excellent specimens, chiefly from the New England District, New South Wales, such as Stibnite, Cassiterite, Fluorite, Bismuth, Molybdenite, Beryl and Wolfram.

*Ethnology*.—Series of Weapons from Melville and Bathurst Islands, Northern Territory; Aboriginal Stone Implements, Victoria.

#### (c) PURCHASES.

*Ethnology*.—Tools and appliances used in pottery making, Latoka, Fiji; an extensive collection of weapons, implements, and utensils from the South Seas, including many fine specimens; weapons, implements, and ornaments, Gilbert Group, Equatorial Pacific.

(d)



## (d) COLLECTION.

*Aves*.—Skins from Western and North-Western Australia—Collector, Dr. Herbert Basedow.

*Hydrozoa*.—Fifty Hydroid Zoophytes collected at Lord Howe Island,\* including the types of *Aglaophenia howensis*, Briggs, and *Aglaophenopsis raga*, Briggs, a genus hitherto known only from North American waters—Collector, E. A. Briggs.

*Cœlenterata and Polyzoa*.—Small collection from Sandy Island Reef, King Sound, and Collier Bay, North-West Australia—Collector, Dr. Herbert Basedow.

*Palæontology*.—Very interesting collection of Permo-Carboniferous Fossils from Mount Marmion, Kimberley, North-West Australia†—Collector, Dr. Herbert Basedow.

*Ethnology*.—Two general collections from the Caroline Islands and Bougainville Island, Solomon Group—Collector, Private W. J. Potter, A.I.F.; series of Aboriginal Stone Flakes, with secondary chipping, New South Wales—Collector, W. W. Thorpe.

The acquisitions for the year were as follow:—Vertebrata: by donation 179, exchange 7, collection 353, total 539; Invertebrata: by donation 9,468, exchange 514, purchase 29, collection 1,214, total 11,225; Fossils and Minerals: by donation 83, exchange 122, purchase 97, collection 240, total 542; Ethnological: by donation 290, exchange 66, purchase 446, collection 251, total 1,053; Miscellaneous: by donation 8, exchange 2, purchase 220, total 230.

## 10. CURATORIAL WORK.

*Mammalia* (A. R. McCulloch in charge).—The entire series of Quadrumana (Monkeys and Apes) was relabelled by the Director and Curator, in some instances the new labels being of an explanatory nature, with also occasional group labels.

*Aves* (H. S. Grant in charge).—The registration of specimens was effected by Mr. H. S. Grant, the Taxidermist, in the absence of a resident Ornithologist, inclusive of the extensive "North Oological Collection," purchased by the Trustees in 1917, the "Dobroyde Collection," acquired as far back as 1896, with a thorough revision of the previously existing Oological series, and an incorporation in the latter of a large amount of material, the neglected gatherings of years. For the rearrangement of these, particularly the Dobroyde Collection, a new glazed-drawer cabinet was constructed.

The Bird Skin Collection, in cabinets and drawers in various parts of the Museum, was periodically and systematically overhauled and disinfected, thus ensuring the collection being perfectly clean and in good order. The mounted specimens in the gallery also received constant attention; the cases are clean and free from insects.

In the latter part of 1917 Mr. H. S. Grant proceeded to Cobborah Station, Cobborah, New South Wales, at the invitation of Mr. T. P. Austin, to inspect the latter's well-known and valuable collection of Australian Birds Eggs, and report on Mr. Austin's system of cataloguing. This became the more necessary, Mr. Austin having in the most generous manner intimated to the Trustees his intention of bequeathing his collection to their care for the benefit of the people at large. The Director and Curator cannot speak too highly of Mr. Grant's successful efforts to overtake an immense amount of neglected work in conjunction with his many other duties.

*Reptilia* (A. R. McCulloch in charge).—A complete check of the gallery exhibits was made by Mr. A. R. McCulloch and his assistant, Mr. F. A. McNeill, the outcome of which is a Card Catalogue complete in every detail. At the same time a rearrangement of many of the specimens took place, bringing the representatives of the various groups into closer proximity. A fine cast of a young *Anaconda* (*Eunectes murinus*) was added to the existing similar representations. A rearrangement of the Foreign Reptiles preserved in the Spirit House is now being proceeded with.

*Pisces—Fish* (A. R. McCulloch in charge).—Several casts of large specimens were prepared by the Formator (Mr. G. C. Clutton), and are now exhibited with explanatory labels. Principal among these is the cast of the Banded Wobbegong or Carpet Shark (*Orectolobus devisi*, Ogilby) with three perfectly formed young. The Sunfish and Swordfish were restored and coloured by the Taxidermist (Mr. H. S. Grant) and his Assistant (Mr. J. H. Wright), and the Devil Ray and several large sharks are now being treated in a similar manner.

During the year the Spirit House collection was finally rearranged and to a large extent card catalogued.

The exhibition case at the entrance to the Fish Gallery was removed and the casts intercalated in the gallery, thereby enabling many type specimens, and specimens foreign to Australian waters, to be removed to the reference collection.

The

\* See Rec. Austr. Mus., xii, 3, 1918. † See Proc. Roy. Geogr. Soc. Austr. (South Australia Branch), xviii, 1916-17.



The following papers were written by Mr. McCulloch, either alone or in conjunction :—

"Ichthyological Notes," *Austr. Zoologist*, i, 4, pp. 89-93, pl. x, A. R. McCulloch.

"Studies in Australian Crustacea," No. 4, *Rec. Austr. Mus.*, xi, 2, pp. 231-8, pls. xlii-xliii—A. R. McCulloch.

"Results of the South Australian Museum Expedition to Strzelecki and Cooper Creeks," *Pisces. Trans. Roy. Soc. South Austr.*, xli, pp. 472-5—A. R. McCulloch and E. R. Waite.

"Some Australian Blennioid Fishes," *Rec. Austr. Mus.*, xii, 2, pp. 9-25—A. R. McCulloch and F. A. McNeill.

*Osteology*.—This fine collection was completely relabelled by the Director and Curator, and afforded the latter the opportunity of, in a measure, rendering a rather "dry as dust" section of the Collection more intelligible and instructive.

*Conchology* (C. Hedley, Assistant Curator, in charge).—In July and August, 1917, the Assistant Curator was excused from attendance to undergo hospital treatment. He has since recovered his usual health.

Because the Freshwater Snails may offer a possible vehicle for the transmission of tropical diseases, they have aroused much interest in medical circles. So, at the request of both military and civilian authorities, a considerable volume of work was done\* and is being continued on this subject.

On behalf of the "Commonwealth Institute of Science and Industry," some service, chiefly after office hours, was rendered in the direction of Marine Biology.

Inquirers, both residents of Sydney and Australia generally, with correspondents abroad in Europe or America, were assisted with names of species or other information as requested.

The study of the Molluscan family Turridæ, commenced last year, has been constantly interrupted by other work, but is resumed as opportunities occur.

A heavy mass of unsorted material, bequeathed to the Museum by the late Dr. J. C. Cox, was carefully sorted out, labelled, and made available for study or exchange by Miss J. K. Allan and Mr. Rex W. Bretnall; the latter was retired from the army on account of injuries received during the performance of his military duties. He was welcomed back to his old post at the Museum in January and has now, the Trustees are glad to say, recovered his health. The "Cox Collection" in question, hitherto untouched, was unpacked and arranged, each specimen supplied with a small printed label denoting its origin, but the foreign Marine Gasteropoda were withdrawn and intercalated with cabinet collection of that nature. This was formed from material in cabinets, stores, &c., and the arrangement, identification, registration and cataloguing are completed from Family Calyptraeidae to conclusion. Another important series, purchased some years ago, the "Helms Collection," was, with the exception of the land shells, intercalated with the general collection.

The following papers by Mr. Hedley were published during the year :—

"Report on Mollusca from elevated marine beds, 'Raised Beaches,' of McMurdo Sound," *Brit. Antarctic Exped.*, 1907-9, *Geology*, ii, pp. 85-8, figs.

"The Economics of *Trochus niloticus*," *Australian Zoologist*, i, pp. 69-73, pls. v-vi; reprinted in the *Scientific Australian*, Dec. 1917, pp. 32-3.

"Description of a New Shell from Caloundra," *Proc. Roy. Soc. Q'land.*, xxix, 1917, pp. 55-6, fig.

"Notes on the Victorian Species of *Bullinus*," *Rec. Austr. Mus.*, xii, pp. 1-8, pl. i-ii.

"Mollusca of the Basedow Expedition to North-West Australia," *Trans. Roy. Geogr. Soc. South Austr.*, xviii, pp. 261-282, pl. xli.

"A Check List of the Marine Mollusca of N.S. Wales," *Journ. Roy. Soc. N.S. Wales*, li, suppl., pp. 1-120.

*Insecta and Arachnida—Insects and Spiders* (W. J. Rainbow in charge).—Mr. W. J. Rainbow reports that during the year 1917-18 the principal work done in the Entomological section was the mounting and determination of material collected by Private W. J. Potter at Rabaul, the territory recently known as German New Guinea, and the Solomon Islands; the material collected by Dr. C. Basedow in North-West Australia; the sorting, mounting and determining of the duplicate collection of Coleoptera; sorting, determining and describing, as well as figuring, North Queensland and Island Araneidae, and also the Pulleine Collection of Australian Avicularidae.

The Lepidoptera and Coleoptera were prepared for cabinet display, with great care and pains, by his Assistant, Mr. A. Musgrave, and to the care and pains thus displayed must be added a word of praise for skill and ability; indeed, the manner in which he discharged his duties, especially during Mr. Rainbow's absence in New Zealand and South Australia, is worthy of the highest commendation.

During

\* See Sixty-second Annual Report, 1916-17, p. 6.



During a visit to the South Australian Museum, Adelaide, whither Mr. Rainbow went towards the end of October, 1917, he received much assistance in the determination of Phytophagous Coleoptera of the families Scarabidae, Chrysomelidae, Staphylinidae, and Elateridae. The species of these families were compared with types and co-types, and species that had been sent to Europe for determination by specialists. His work in Adelaide also consisted of working over the immense collection of Araneidae presented to the Trustees by Dr. R. H. Pulleine, and, in conjunction with that gentleman, preparing an account, consisting of biological notes and descriptions of new genera and species of Australian Avicularidae.

As a result of Dr. Pulleine's munificence our collection of Australian Avicularidae is now the largest and most complete that has ever been brought together. Indeed, there are very few gaps in our collection of this branch of our native fauna that require to be filled.

The Tabanidae (Horse-flies) contained in the Museum were lent to Mr. F. H. Taylor, of the Australian Institute of Tropical Medicine, Townsville, for description. The result of his study of this animal-irritating group of Flies will be found in the "Museum Records."\*

*Invertebrata, other than Shells, Insects and Arachnida* (E. A. Briggs, B.Sc., in charge).—During the year the collection of micro-slides was brought together in four large cabinets and the slides arranged in systematic order.

In the Dry Stores the drawers and tanks were fitted with heavy paper covers in order to exclude dust from the specimens. Old labels were removed from the specimens in the Sponge Section of the gallery exhibit and replaced by new ones. Numerous specimens, suitable for exhibition, were mounted and placed in the galleries with accompanying explanatory labels. Work was continued on the Spirit House collections, and the revision of the Hydroid Zoophytes of Lord Howe Island was prepared and published in the Museum "Records":—"Description of Two New Hydroids, and a Revision of the Hydroid Fauna of Lord Howe Island," *Rec. Austr. Mus.*, xii, 3.

*Ethnology* (W. W. Thorpe in charge).—It is no longer possible to increase the display of these interesting works of savage man, the cases of the three galleries allotted thereto being full to repletion. The major portion of Mr. W. W. Thorpe's time was taken up with safeguarding the large and valuable collections of this nature in store, and which, under existing circumstances, cannot be exhibited. In fact, this work is becoming too heavy for one Assistant, and if the objects are to be preserved in a fit state for future display, additional help must be provided.

*Numismatics* (W. W. Thorpe in charge).—During the year the arrangement of the Foreign Coins was completed, and a final disposition of the British series is well in hand.

*Mineralogy* (C. Anderson, M.A., D.Sc., in charge).—Such additions as were made consisted mainly of minerals received in exchange, as already stated. A complete card index of the collection proceeded as time and opportunity offered, and is now approaching completion. Dr. Anderson's "Mineralogical Notes, No. X," is also ready for publication. The paper is the result of crystallographic and chemical investigations on the following, among other minerals—Beryl, Calcite, Cassiterite, Chabazite, Cuprite, Hematite, Monazite, Quartz, and Stibnite. The Beryl crystals described are of particular interest on account of their remarkable etched figures. New forms have been established on Cuprite and Mimeteite. The paper will be illustrated by about fifty drawings and photographs.

Recent acquisitions of moderate size are now displayed, for a time, in a case specially devoted to the purpose at the public entrance.

#### 11. LIBRARY.

The additions during the year, exclusive of unbound periodicals and pamphlets, the Librarian (Mr. W. A. Rainbow) reports, totalled 282 volumes, a list of which will be found at the end of this Report as Appendix 2. The falling off is due to existing conditions; purchases were curtailed as a method of necessary economy, and a number of exchangees refused to risk the mails, retaining their publications till affairs assume a more settled condition. Binding, to a minor extent, was also proceeded with, though this has also felt the need of economy. During the year the Card Catalogue was proceeded with, in addition to keeping the existing one current, which will be maintained till such time as it can be entirely replaced by that now in preparation.

The housing of a portion of the library in the basement is a source of concern and against all library ethics. It is only by constant attention that this part can be kept in good condition, the dampness causing the growth of mildew.

Thanks are due to the Principal Librarian, Public Library, likewise the Librarian of the Fisher Library of the University, for the loan of many important works. For facilities for research at the Mitchell Library, the Trustees are much indebted to Mr. Hugh Wright, the Librarian.

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## 12. FIELD WORK.

Only one opportunity presented itself of outdoor research, the investigation of one of the last remaining Bora Grounds of the Aborigines, at Bulga, some distance to the south-west of Singleton, brought under notice by Mr. A. N. Eather, of Bulga. Messrs. Anderson, Thorpe, and Clutton were despatched to note and survey the ground and photograph the dendroglyphs. The duty entrusted to these officers was effectively carried out, and it is intended, as soon as circumstances permit, to publish an illustrated description and plan of this initiation ground.

## 13. FINANCE.

The Museum has no private source of income, but is supported financially by the Government of New South Wales, first by an endowment of £1,000 provided annually by the Act of Incorporation, and secondly by annual Parliamentary appropriations, varying from year to year to meet requirements.

The following is the Statement of Receipts and Expenditure for the year under review, duly audited and signed by an Inspector of Public Accounts, representing the Auditor-General.

## STATEMENT OF RECEIPTS AND EXPENDITURE FOR THE YEAR ENDED 30TH JUNE, 1917-18.

	Endowment Account.	Public Account.	Totals.		Endowment Account.	Public Account.	Totals.
	£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.
Balance from last year .....	1,767 17 10			Salaries—			
Interest .....	34 10 10		1,802 8 8	Director and Curator, and Assistant Curator .....		1,400 0 0	
Statutory Endowment.....	1,000 0 0		1,000 0 0	Scientific Assistants.....		1,825 0 0	
Parliamentary Appropriations—				Office Staff.....		939 0 0	
Salaries .....		8,236 0 0		Junior and Zoological Assistants.....		444 19 4	
Contingencies .....		1,430 0 0		Mechanics.....		1,313 18 8	
Special Account .....		12 5 0	9,678 5 0	Attendants.....		2,052 6 2	7,975 4 2
Sales of Publications—				Contingencies—			
Records .....	4 6 8			Overtime and Sundays .....		281 15 6	
Post Cards .....	2 9 11			Insurance .....		130 12 3	
Guides .....	0 16 6			Building and Maintenance .....		499 19 8	912 7 5
Nest and Egg Catalogue .....	1 18 0			Statutory and Additional Endowment—			
Scott's Lepidoptera .....	4 10 0		14 1 1	Working Expenses .....	250 10 11	372 7 6	
Miscellaneous—				Purchase of Specimens .....	146 12 6	13 15 0	
Fines .....	0 12 0			Cases.....	7 6 11	12 9 11	
Sale of Old Material .....	4 5 0		4 17 0	Tools and Plant .....		46 14 4	
				Catalogues .....	152 13 3	33 9 7	
				Purchase of and Binding Books .....	74 17 3	2 4 3	
				Preservation of Specimens .....	56 1 2	1 13 0	
				Miscellaneous.....	14 7 3	16 12 0	
				Furnishing .....	65 15 10		
				Collecting and Travelling .....	38 6 3		
				William-st. Resumption Expenses .....	91 0 6		1,396 17 5
				Refund of unexpended balances .....		291 7 10	291 7 10
				Suspense Account .....	20 0 0		20 0 0
				Balance .....	1,903 14 11		1,903 14 11
£ 2,821 0 9		9,678 5 0	12,499 11 9	£ 2,821 6 9		9,678 5 0	12,499 11 9

P. W. SMITH,  
Inspector of Public Accounts.

Examined and found correct, 16th September, 1918.

## 14. APPENDICES.

The following Appendices are attached, viz. :—

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

The Common Seal of the Museum was hereunto affixed by }  
order of the Board, this 30th day of October, 1918. }

R. ETHERIDGE, Director.

T. STORIE DIXSON, Acting President.



## APPENDIX I.

List of the publications of the Australian Museum :—

*I.—Annual Reports.*

Nos. 1-62. 1853-1917.

*II.—Catalogues.*

- \*1. Catalogue of the Specimens of Natural History and Miscellaneous Curiosities in the Australian Museum, by G. Bennett. 1837.
- \*2. Catalogue of Mammalia in the Australian Museum, by G. Krefft. 1864.
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, 1891.
- \*5. Catalogue of the Australian Stalk and Sessile-eyed Crustacea, by W. A. Haswell. 1882.
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.
- \*8. Catalogue of the Australian Hydroid Zoophytes, by W. M. Bale. 1884.
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.
- \*11. Descriptive Catalogue of the Medusæ of the Australian Seas. Part I, Scyphomedusæ. Part II, Hydromedusæ. By R. von Lendenfeld. 1887.
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, Palæichthyan 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. I, 1890-1; \*Vol. II, 1892-6; Vol. III, 1897-1900; Vol. IV, 1901-3; Vol. V, 1903-5; Vol. VI, 1905-8; Vol. VII, 1903-10; Vol. VIII, 1910-13; Vol. IX, 1912-13; Vol. X, 1913-15; Vol. XI, parts 1-12, 1916-17; Vol. XII, parts 1-5, 1917-18.

*VII.—Guides.*

- \*1. Guide to the Australian Fossil Remains in the Australian Museum, &c., arranged by Gerard Krefft. 1870.
- \*2. Guide to the Contents of the Australian Museum. 1883.
- \*3. Guide to the Contents of the Australian Museum. 1890.
4. Elementary Guide to the Exhibited Zoological Collections. 1914.

*VIII.*



## 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.					
19291	AURIVILLIUS, Chr. et H. WAGNER. Lepidopterorum Catalogus, Pars. I-XV. 1 vol. 8vo. Berlin, 1911-1913. Purchased		19122	BURROWS, W. B. Michigan Bird Life. 1 vol. 8vo. Lansing, 1912. Presented	
19093	BANNISTER, S. British Colonization and Coloured Tribes. 1 vol. 8vo. London, 1838. Purchased			CHENU, Jean Charles. Encyclopédie d'Histoire Naturelle ou Traité complet de Cette Science d'après les travaux des naturalistes les plus éminents de tous les pays et de toutes les époques Buffon, Daubenton, Lacépède, G. Cuvier, F. Cuvier, Geoffroy, Saint-Hilaire, Latreille, de Jussieu, Brongniart, etc., etc. Ouvrage resumant les Observations des Auteurs anciens et comprenant toutes les Découvertes modernes jusqu'à nos jours par le Dr. Chenu.	
	BATTY, D. T. Batty's Catalogue of the Copper Coinage of Great Britain, Ireland, British Isles, and Colonies, Local and Private Tokens, Jettons, &c. Compiled from various authors, and the most celebrated collections: together with the author's own collection of about ten thousand varieties. Illustrated with plates of rare and unrepresented coins.		19175	Quadrumanes.	
19148	Vol. I. Parts 1-13, 1868-77. Penny and Halfpenny Tokens.		19176	Cannassiers, avec le collaboration de M. E. Desmarest. 1me-2me parties. 1853.	
19149	Vol. II. Parts 14-29, 1877-1884. Halfpenny and Farthing Tokens.		19178	Rongeurs et Pachydermes, avec la collaboration de M. E. Desmarest.	
19150	Vol. III. Parts 30-49, 1886-1894. Regal Copper Coins.		19179	Pachydermes, Ruminants, Edentés Cétacés, Marsupiaux et Monotrèmes, avec la collaboration de M. E. Desmarest.	
19151	Vol. IV. Appendix to Batty's Descriptive Catalogue, being the continuation of the Victorian Regal Series Bronze Issue, 1860-1887. Edited by Fredk. G. Lawrence, 1898. Parts 50-54, 1895. Colonial Copper Coins. 4 vols. 8vo. Manchester and London, 1868-1895. Purchased		19180-	Oiseaux, avec la collaboration de M. O. des Murs. 1me-6me parties.	
19163	BRITISH ANTARCTIC EXPEDITION. Under the Command of Sir E. H. Shackleton, C.V.O. Reports on the Scientific Investigations. Geology, vol. II. Contributions to the Palæontology and Petrology of South Victoria Land. 1 vol. 4to. London, 1916. Purchased		19185	Papillons Nocturnes, avec la collaboration de M. E. Desmarest, 1857.	
	BRITISH ORNITHOLOGISTS' UNION EXPEDITION AND THE WOLLASTON EXPEDITION. Reports on the Collections made by the . . . in Dutch New Guinea, 1910-13.		19186	Annelés, avec la collaboration de M. E. Desmarest, 1859.	
19097-98	Vols. I-II. 2 vols. 4to. London, 1916. Purchased		19187	13 vols. 4to. Paris (where known, dates are shown against the respective volumes). Presented by C. Hedley	
19237	BUCKMAN, S. S. Yorkshire Type Ammonites, edited by . . . . . The original descriptions reprinted, and illustrated by figures of the types, reproduced from photographs mainly by J. W. Tutchner. Vol. I. 1 vol. 8vo. London, 1909-1912. Purchased		19239	COSSMANN, Maurice. Revue Critique de Paléozoologie. 15e-18e années. 1 vol. 8vo. Paris, 1911-1914. Purchased	
			19202-19218	ENCYCLOPÆDIA. The Penny Cyclopædia of the Society for the Diffusion of Useful Knowledge. Vols. I-XXVII. Supplement, Vols. I-II. Second Supplement, complete in one volume. 17 vols. 4to. London, 1838-1848. Purchased	
			19333-19334	EXPOSITION UNIVERSELLE ET INTERNATIONALE DE SAN FRANCISCO. La Science Française. Tomes I-II. 2 vols. 8vo. Paris, 1915. Presented	
			19131	FLETCHER, L. The Optical Indicatrix, and the Transmission of Light in Crystals. 1 vol. 8vo. London, 1892. Presented by Dr. C. Anderson	
			19120	FOX-CROFT, A. B. The Australian Catalogue. A Reference Index to the Books and Periodical published and still current in the Commonwealth of Australia. Compiled and edited by A. B. Foxcroft. 1 vol. 8vo. Melbourne, 1911. Purchased	



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
19111	GREGORY, Herbert E. <i>Lonely Australia: The unique continent.</i> ( <i>National Geographic Magazine</i> , xxx, December, 1916.) 1 vol. 8vo. Washington, D.C., 1916. Presented by C. Hedley		19099	ROTH, Bernard. <i>Ancient Gaulish Coins, including those of the Channel Islands.</i> ( <i>Reprinted from the British Numismatic Journal</i> , vol. ix, 1912.) 1 vol. 8vo. London, 1913. Presented by Mrs. B. Roth	
19200	GIBBS, L. S. <i>Dutch N.W. New Guinea. A contribution to the Phytogeography and Flora of the Arfak Mountains, &amp;c.</i> ( <i>Read before the Newcastle meeting of the British Association for the Advancement of Science</i> , September, 1916.) 1 vol. 8vo. London, 1917. Presented by C. Hedley		19245	SAPPER, Karl, C. Lauterbach and G. Friederici. <i>Wissenschaftliche Ergebnisse einer amtlichen Forschungsreise nach dem Bismarck-Archipel in Jahre, 1908. I. Beiträge zur Lanienskunde von Neu-Mecklenburg und seiner Nachbarinseln, von Carl Sapper. Mit einem Beitrag von C. Lauterbach, 1910. II. Beiträge zur Völker- und Sprachenkunde von Deutsch-Neuguinea, von G. Friederici, 1912. (Mittel. Deutsch. Schutzgebieten, Ergänzungsheft, 3, 5.)</i> In 1 vol. 4to. Berlin, 1910-1912. Purchased	
19137	HAAN, W. de. <i>Bijdragen tot de Kennis der Papilionidea.</i> " " Orthoptera. ( <i>Natuurkundige Commissie in Cost-Indie. Verhandelingen over de Natuurlijk Geschiedenis der Nederlandsche overzeesche bezittingen</i> . . . Uitgegeven . . . door C. J. Temminck, Leiden.) 1 vol. fol. Leiden, 1839-1844. Purchased		19285	SCHENKLING, S. (Editor). <i>Coleopterorum Catalogus.</i> Pars. I-XV, 1910. (No. 7 missing). XVI-XXV, 1910-1911. XXVI-XXXIV, 1911. XXXV-XXXIX, 1911-1912. XL-XLIX, 1912-1913. L-XVII, 1913-1914. 6 vols. 8vo. Berlin, 1910-1914. Purchased	
19112	HART, Albert. <i>A treatise on Sponges, and Commercial Notes.</i> ( <i>Read before the New York College of Pharmacy, Columbia University, New York, May 20th, 1918.</i> ) 1 vol. 8vo. New York, 1913. Purchased		19286	SHIRLEY, A. E. (Editor). The Fauna of British India, including Ceylon and Burma. Coleoptera, Rhynchophora:—Curculionidae. By Guy A. K. Marshall. 1 vol. 8vo. London, 1916. Purchased	
19035	HERMS, William B. <i>Medical and Veterinary entomology</i> . . . 1 vol. 8vo. New York, 1915. Purchased		19132	SMITH, Grafton Elliott. <i>The Migrations of Early Culture. A Study of the significance of the geographical distribution of the practice of mummification as evidence of the migrations of peoples and the spread of certain customs and beliefs.</i> 1 vol. 8vo. Manchester, 1915. Purchased	
19123	HERMANN, Otto. <i>The International Convention for the Protection of Birds, concluded in 1902, and Hungary.</i> 1 vol. 8vo. Budapest, 1907. Presented		19096	—The Influence of ancient Egyptian Civilization in the East and in America. ( <i>Reprinted from "The Bulletin of the late John Rylands Library," January-March, 1916.</i> ) 1 vol. 8vo. Manchester, 1916. Purchased	
19138-19139	HOLDEN, Lonsdale. <i>Tasmanian Ornithological Notes in MS.</i> 2 vols. fol. Presented		18946	SUSSMILCH, C. A. <i>An Introduction to the Geology of New South Wales. 2nd edition.</i> 1 vol. 8vo. Sydney, 1914. Purchased	
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19119	LEVY, S. I. <i>The Rare Earths: their occurrence, chemistry, and technology.</i> 1 vol. 8vo. London, 1915. Purchased		19234	TAYLOR, J. W. <i>Monograph of the Land and Freshwater Mollusca of the British Isles. Pts. XII-XXI. Zonitidae, Endodontidae, Helicidae.</i> 1 vol. 8vo. Leids, 1914. Presented	
19147	LEWIN, T. H. <i>Wild Races of Southern India.</i> 1 vol. 8vo. London, 1870. Purchased		19313	TILLYARD, Robin J. <i>The Biology of Dragonflies (Odonata or Paraneuroptera).</i> 1 vol. 8vo. Cambridge, 1917. Purchased	
19846	MACGILLIVRAY, Wm. <i>The Conchologist's Text-book, em. 7th edition. Corrected and enlarged by William Macgillivray.</i> 1 vol. 8vo. London, &c., n.d. Presented by C. Hedley		19113	WEBER, Max and L. F. de BEAUFORT. <i>The Fishes of Indo-Australian Archipelago III. Ostariophysi: ii, Cyprinoidea, Apodes, Synbranchi.</i> WORLDS' COLUMBIAN EXPOSITION, CHICAGO, 1913. 1 vol. 8vo. Leiden, 1916. Purchased	
19244	MARTIN, K. <i>Die Fossilien von Java auf Grund einer Sammlung von Dr. R. D. V. Verbeek und von andereh. Band I. Gasteropoda. Mit einem Anhenge über: Die Foraminiferen führenden Gesteine. (Samml. Geol. Reichs-Museums in Leiden, N.F.I., 1.)</i> 1 vol. 4to. Leiden, 1891-1906. Purchased		19156	Anthropometric Data of New South Wales Aborigines gathered by the Police Department of New South Wales 1892, in MSS. ( <i>These data form the basis of the Anthropometric Section of the Appendix to Dr. John Fraser's paper on "The Aborigines of New South Wales," (World's Columbian Exposition, Chicago, 1893. N.S.W. Commissioners, Pamphlets, Vol. ii, 1893.)</i> 1 vol. fol. Sydney, 1893. Presented	
19201	MASSON, Elsie R. <i>An Untamed Territory. The Northern Territory of Australia.</i> 1 vol. 8vo. London, 1915. Purchased			PART II.—PERIODICALS. INTERNATIONAL.	
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19322	NISHIKAWA, S. <i>The Pearl.</i> 1 vol. 8vo. Presented				
19307	ODHNER, Nils Hj. <i>Zoologische Ergebnisse der Schwedischen Expedition nach Spitzbergen, 1908. Unter Leitung von Prof. G. de Geer, redigiert von N. von Hofstein und S. Boek. Teil II, 1. Die Molluskenfauna des Eisfjordes von Nils Hj. Odhner. (Kungl. Svenska Vetenskaps-akad. miens Handlingar, Bd. 54.)</i> 1 vol. 8vo. Stockholm, 1915. Presented				
19188	OSBORN, Henry Fairfield. <i>Bibliography of the published writings of Henry Fairfield Osborn for the years 1877-1915</i> . . . Compiled by H. Ernestino Ripley. 1 vol. 8vo. New York, 1916. Presented				
19238	PALAEONTOLOGIA UNIVERSALIS. Series III, fasc. 1-3. 1 vol. 8vo. —1910-1912. Purchased				
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19125	12th Annual Issue. H. Geology, 1916.			1 vol. 8vo. Wellington, N.Z., 1917.	Presented
19144	13th " " D. Chemistry, 1916.		19110	MINES, Minister for. Mines Statements for the year 1915.	
19326	" " " P. Anthropology, 1917.		19319	—1916. 2 vols. fol. Wellington, 1917.	Presented
19247	INTERNATIONALES ARCHIV FÜR ETHNOGRAPHIE. Bd. xx, 1912. General Register zu Bd. I-xx. 1914.	Purchased		UNITED KINGDOM.	
19248	—Bd. XXI-XXII. 1913-1915.			London.	
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	COMMONWEALTH OF AUSTRALIA. Historical Records of Australia. Series I. Governors' Despatches to and from England.		19195	—Report of the 86th meeting, Newcastle-on-Tyne, 1916.	
19065	Vol. VII. July, 1813-December, 1815.			1 vol. 8vo. London, 1917.	Presented
19133	Vol. IX. January, 1816-December, 1818.		19100	BRITISH MUSEUM (NATURAL HISTORY). Catalogue of the Ungulate Mammals in . . . Vol. v. Perissodactyla (Horses, Tapirs, Rhinoceroses), Hydracoida (Hydraxes), Proboscidea (Elephants). With addenda to earlier volumes. By the late Richard Lydekker.	
19164	Vol. X. January, 1819-December, 1822.			1 vol. 8vo. London, 1916.	Presented
19263	Vol. XI. January, 1823-November, 1825.		19101	—Catalogue of the Mesozoic Plants in . . . The Cretaceous Flora. Part II. Lower Greensand (Aptian) Plants of Britain. By Marie C. Stopes.	
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19154	ENGINEERING ASSOCIATION OF NEW SOUTH WALES. Minutes of Proceedings. . . . Vol. XXXI, 1915-16.			1 vol. 8vo. London, 1916.	Purchased
19134	GEOLOGICAL SURVEY. Mineral Resources, No. 24. The Molybdenum Industry in New South Wales, by E. C. Andrews.	Presented		CONCHOLOGICAL SOCIETY OF GREAT BRITAIN AND IRELAND.	
19127	GOVERNMENT STATISTICIAN. The Official Year Book of New South Wales, 1915.		19230	Journal of Conchology, vol. XIII, 1910-1912.	
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19107	PUBLIC LIBRARY. Supplementary Catalogue . . . for the years 1901-1905.		19274	ECONOMIC BIOLOGY, JOURNAL OF. Vols. VII-VIII, 1912-1913.	
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	1 vol. fol. Brisbane, 1917.	Presented		4 vols. 8vo. London, 1912-1915.	Purchased
	SOUTH AUSTRALIA.		19152	GEOLOGISTS' ASSOCIATION. The Eocene and Oligocene Beds of the Paris Basin, by George F. Harris and Henry W. Burrows. (A paper read before the Geologists' Association, on April 3rd, 1891.)	
19150	UNIVERSITY OF ADELAIDE. Calendar . . . 1917.			1 vol. 8vo. London, 1891.	Purchased
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19145	GOVERNMENT STATISTICIAN. New Zealand Year Book, 1916.		19228	MALACOLOGICAL SOCIETY OF LONDON. Proceedings, vol. X, 1912-1913.	
19329	—Do do 1917.		19229	—Do vol. XI, 1914-1915.	
	2 vols. 8vo. Wellington, N.Z., 1916-1917.	Presented		2 vols. 8vo. London, 1913-1915.	Purchased



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19257	Man . . . Vols. x-xii, 1910-1912.			<i>India.</i>	
1927	xii-xv, 1913-1915. 2 vols. 4to. London, 1910-1915. Purchased		19338	ENTOMOLOGICAL MEETING, PUSA. Report of the Proceedings of the Second Entomological Meeting, held at Pusa on the 5th to 12th February, 1917. Edited by T. Bainbridge Fletcher. 1 vol. 8vo. Calcutta, 1917. Presented	
19254	—Journal, vol. XLII, 1912.		14189	GEOLOGICAL SURVEY OF INDIA. Memoirs. Palaeontologia Indica . . . series xv, Vol. I.	
19255	XLIII, 1913.		14193	— Do do New Series. Vol. II. 2 vols. 4to. Calcutta, 1915. Presented	
19256	XLIV-XLV, 1914-1915. 3 vols. 4to. London, 1912-1915. Presented			<i>Africa.</i>	
19162	ROYAL SOCIETY OF LONDON. Year-Book, 1917. 1 vol. 8vo. London, 1917. Presented		19314	NATAL GOVERNMENT MUSEUM. 1st Report, year ending 31st December, 1904.	
19306	ZOOLOGICAL SOCIETY OF LONDON. The Zoological Record, volume the Fifty-Second . . . 1915. 1 vol. 8vo. London, 1917. Purchased		19315	—2nd Report, year ending 31st December, 1905. 2 vols. fol. Pietermaritzburg, 1906; London, 1907. Presented	
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	LIVERPOOL BIOLOGICAL SOCIETY. Proceedings and Transactions. Vol. xxx, session 1915-1916. xxxi, session 1916-1917. 2 vols. 8vo. Liverpool, 1916-1917. Presented			<i>District of Columbia.</i>	
19141	LIVERPOOL MARINE BIOLOGY COMMITTEE. The Marine Biological Station at Port Erin (Isle of Man), being the Thirtieth Annual Report of the . . . drawn up by W. A. Herdman . . . along with an address upon Sir Wyville Thomson and the "Challenger" Expedition. ( <i>Read before the Liverpool Biological Society, November 19th, 1916.</i> ) 1 vol. 8vo. Liverpool, 1916. Presented		19222	AGRICULTURE, U.S. Department of. Year Book, 1909.	
	<i>Scotland.</i>		19317	— Do do 1916. 2 vols. 8vo. Washington, 1910 and 1917. Presented	
19197	GLASGOW UNIVERSITY. Calendar . . . 1917-18. 1 vol. 8vo. Glasgow, 1917. Presented			AMERICAN ETHNOLOGY, BUREAU OF.	
	BRITISH DOMINIONS.		19116	29th Annual Report. 1907-1908.	
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19282	CANADIAN ENTOMOLOGIST, THE. Vols. XLIII-XLIV. 1911-1912.		19191	31st Do 1909-1910. 3 vols. 4to. Washington, 1915-1916. Presented	
19283	XLV-XLVI. 1913-1914.		19124	— Bulletin 55. Ethnobotany of the Tewa Indians, by Wilfred W. Robbins, John P. Harrington and Estelara Freire-Marreco. 1 vol. 8vo. Washington, 1916. Presented	
19284	XLVII-XLVIII. 1915-1916. 3 vols. 8vo. London, 1911-1916. Purchased		19224	FISHERIES, U.S. Bureau of. Bulletin vol. xxxiv, 1914. 1 vol. 4to. Washington, 1916. Presented	
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19168	Report of the 1st Annual Meeting, January 18th-21st, 1910.		19114	SMITHSONIAN INSTITUTION. Annual Report . . . for the year ending June 30th, 1915. 1 vol. 8vo. Washington, 1916. Presented	
19169	2nd Annual Report, including a Report of the Proceedings of the 2nd Annual Meeting, held at Quebec, January 17-20, 1911, and of the Dominion Public Health Conference, held at Ottawa, October 12-13, 1910.			— Smithsonian Miscellaneous Collections. Vol. XLV. (Quarterly Issue, vol. I). 1903. XLVI. 1904-1905. Incomplete.	
19170	Report of the 3rd Annual Meeting . . . January 16th, 1912.		19069	XLVI. 1904-1905. Incomplete.	
19171	Report of the 4th Annual Meeting . . . January 21st-22nd, 1913.		19070	XLVII. (Quarterly Issue, vol. II). 1905.	
19173	Report of the 5th Annual Meeting . . . January 20th-21st, 1914.		19071	XLVIII. (Quarterly Issue, vol. III). 1907.	
19173	Report of the 6th Annual Meeting . . . January 19th-20th, 1915.		19072	XLIX. 1905-1907. Incomplete.	
19174	Report of the 7th Annual Meeting . . . January 18th-19th, 1916. 7 vols. 8vo. Ottawa, Toronto and Montreal, 1911-1916. Presented		19073	L. (Quarterly Issue, vol. IV). 1908.	
19166	— Sea-Fisheries of Eastern Canada, being the Proceedings of a Meeting of the Committee on Fisheries, Game and Fur-bearing Animals of the Commission of Conservation, held at Ottawa, June 4th-5th, 1912. (1912.)		19074	LI. 1910.	
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19165	— Committee on Fisheries, Game and Fur-bearing Animals.—Conservation of Fish, Birds and Game. Proceedings at a meeting of the Committee, November 1 and 2, 1915. (1916.) 4 vols. 8vo. Ottawa and Toronto, 1911-1916. Presented		19077	LIV. 1910.	
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			19080	LVII. Cambrian Geology and Palaeontology, vol. II. 1914.	
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19090	— Smithsonian Contributions to Knowledge. Vol. xxxii, 1895.		19198	— A Bibliography of Fishes by Bashford Dean.	
19091	do do do		19336	Enlarged and edited by Charles Rochester Eastman. Vols. I-II. Authors' Titles, A-Z.	
19092	Vol. xxxiii, 1903-1907. 2 vols. 4to. Washington, 1895-1907. U.S. NATIONAL MUSEUM. Proceedings.	Presented		In 1 vol. 8vo. New York, 1916-1917. Presented	
19115	Vol. 50.		19339	— Handbook series No. 3. Ancient Civilizations of Mexico and Central America. By Herbert J. Spinden.	
19332	Vol. 51. 2 vols. 8vo. Washington, 1916-1917.	Presented		1 vol. 8vo. New York, 1917. Presented	
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	1 vol. 8vo. Washington, 1917.	Presented		1 vol. 8vo. New York, 1916. Presented	
19158	CARNEGIE INSTITUTION OF WASHINGTON. Publication 159. The Mosquitoes of North and Central America and the West Indies, by Leland O. Howard, Harrison G. Dyar, and Frederick Knab. Vol. IV. Systematic Description (in two parts), part 2.		19265	NEW YORK STATE MUSEUM. 68th Annual Report, 1914. Report of the Director, 1914, and appendixes 1-3.	
	1 vol. 8vo. Washington, 1917.	Purchased		1 vol. 8vo. Albany, 1916. Presented	
19157	LIBRARY OF CONGRESS. Report . . . 1916.			Pennsylvania.	
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19221	Archæology, vols. I-III. 3 vols. 4to. Leipzig, 1905-1909.	Presented		AMERICAN ANTHROPOLOGIST. New series. Organ of the American Anthropological Association, the Anthropological Society of Washington, and the American Ethnological Society of New York.	
19342	— Publications in Entomology, vol. II. 1 vol. 8vo. Berkeley, 1917.	Presented	19249	Vol. XIV, 1912.	
	Hawaiian Islands.		19250	Vol. XV, 1913.	
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19223	ILLINOIS STATE GEOLOGICAL SURVEY. Bulletin No. 20. Year-book for 1910.			5 vols. 8vo. Lancaster, 1912-1916. Purchased	
19192	— Bulletin No. 26.			Philippine Islands.	
19193	— Do 27.		19335	BUREAU OF SCIENCE. The Philippine Journal of Science. Contents and Index, vols. I-X, 1906-1915.	
19264	— Do 33. Year-book for 1915.			1 vol. 8vo. Manila, 1917. Presented	
	4 vols. 8vo. Urbana, 1915-1916.	Presented		EUROPE.	
19128	ILLINOIS STATE MUSEUM OF NATURAL HISTORY. General Guide.			Belgium.	
19129	— Report . . . for the years 1911 and 1912.		19307	SOCIÉTÉ ENTOMOLOGIQUE DE BELGIQUE. Annales, Tomes LV-LVI, 1911-12.	
	2 vols. 8vo. Springfield, 1913-1914.	Presented		1 vol. 8vo. Bruxelles, 1911-1912. Presented	
	Iowa.			SOCIÉTÉ ROYALE ZOOLOGIQUE ET MALACOLOGIQUE DE BELGIQUE.	
19135	IOWA GEOLOGICAL SURVEY. Vol. xx. Annual Report, 1909.		19235	Annales, Tomes XLV-XLVI, 1910-1911.	
19163	— Vol. XXI. Annual Report, 1910-1911.		19236	Do XLVII, 1912.	
	2 vols. 8vo. Des Moines, 1910-12. Presented by Prof. A. Liversidge			2 vols. 8vo. Bruxelles, 1911-1913. Presented	
	Michigan.			France.	
19189	MICHIGAN STATE BOARD OF AGRICULTURE. 55th Annual Report . . . and 29th Annual Report of the Experiment Station from July 1st, 1915, to June 30th, 1916.			ASSOCIATION FRANÇAISE POUR L'AVANCEMENT DES SCIENCES.	
	1 vol. 8vo. Lansing, 1916.	Presented	19330	Compte Rendu de la 42me session. Tunis, 1913. Notes et Mémoires. (1914.)	
19155	GEOLOGICAL SURVEY. An Ecological Survey of Isle Royale, Lake Superior. Prepared under the direction of Chas. C. Adams. (A report from the University of Michigan Museum, published by the State Biological Survey, as a part of the Report of the Board of the Geological Survey for 1908.)		19331	Do do 43me session. Le Havre, 1914. Notes et Mémoires. (1915.)	
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19142	MICHIGAN GEOLOGICAL AND BIOLOGICAL SURVEY. Publication 21. Geological series 17.		19232	3 vols. 8vo. Paris, 1914-1917. Presented	
19143	— Do 22 do 18.		19233	CONCHYLIOLOGIE. Journal de 4e série. Tome XI-XII, vols. LVII-LVIII, 1909-1910.	
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	4 vols. 8vo. Lansing, 1917.	Presented		Germany.	
	New York.		19246	BAESSLER-ARCHIV. Beiträge zur Völkerkunde. Herausgegeben aus mitteln des Baessler-Instituts unter mitwirkung der Direktoren der ethnologischen Abteilungen des königlichen Museums für Völkerkunde in Berlin. Bd. III-IV.	
19194	AMERICAN MUSEUM OF NATURAL HISTORY. Guide to the Nature Treasures of New York City. American Museum of Natural History. New York Aquarium. New York Zoological Park and Botanical Garden. Brooklyn Museum. Botanic Garden and Children's Museum. Prepared by Geo. N. Pindar, assisted by Mabel H. Pearson and G. Clyde Fisher.			1 vol. 4to. Berlin, 1913-1914. Purchased	
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			18366	Zeitschrift für Ethnologie. Jahrg. XLIII, 1911.	
			18337	Zeitschrift für Ethnologie. Jahrg. XLIV, 1912.	
			18363	Zeitschrift für Ethnologie. Jahrg. XLV, 1913.	
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19300	Do 1912.			1 vol. 8vo. Portici, 1909-1911.	Presented
19301	Do 1913.			R. STAZIONE DI ENTOMOLOGIA AGRARIA.	
	3 vols. 8vo. Berlin, 1911-13.	Presented		"Redia" . . .	
19303	ENTOMOLOGISCHE VEREIN ZU STETTIN. Entomologische Zeitung. Jahrg. 72-73, 1911-12.		19309	Vol. VII-VIII, 1911-12.	
	1 vol. 8vo. Stettin, 1911-12.	Presented	19310	IX X, 1913-15.	
	ZEITSCHRIFT FÜR WISSENSCHAFTLICHE INSEKTENBIOLOGIE . . .			2 vols. 8vo. Firenze, 1911-15.	Presented
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