

1917.
(SECOND SESSION.)

LEGISLATIVE ASSEMBLY.
NEW SOUTH WALES.

AUSTRALIAN MUSEUM.
(REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30TH JUNE, 1917.)

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

Printed under No. 9 Report from Printing Committee, 26 September, 1917.

TO HIS EXCELLENCY THE GOVERNOR,—

The Trustees of the Australian Museum have the honor to submit to your Excellency their Sixty-third Report, being for the year ended 30th June, 1917.

1. TRUSTEES.

Amongst the Official Trustees Mr. Surveyor-General Poate, who retired from the Service, was succeeded by Mr. J. Broughton on 1st August, 1916.

Surgeon-General Sir W. D. C. Williams, C.B., resigned as an Elective Trustee on 13th December, 1916, after occupying a seat on the Board for twenty-nine years, and of this period he for three years occupied the position of Senior Elective Trustee; Colonel R. E. Roth, C.M.G., D.S.O., V.D., M.R.C.S.E., on return from military duty, resumed his seat on the Board, but Professor T. W. E. David is still absent. The vacancy caused by Sir W. D. C. Williams' resignation was filled by the election of George Henry Abbott, Esq., B.A., M.B., Ch.M., on 2nd March, 1917, in terms of By-law VI of the Act of Incorporation.

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	11
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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 Minister for Public Instruction	...	...	...	...	...	...	...	—
The Auditor-General (Mr. F. A. Coghlan)	...	...	...	...	...	...	...	11
The President, Medical Board (Sir P. Sydney Jones, M.D., F.R.C.S.)	...	...	...	...	...	...	...	4
The Surveyor-General and Chief Surveyor (Mr. J. Broughton)	...	...	...	...	...	...	...	1
The Director-General of Public Works (Mr. J. Davis, M.I.C.E.)	...	...	...	...	...	...	...	1
The Crown Solicitor (Mr. J. V. Tillett)	...	...	...	...	...	...	...	—

Elective Trustees.

*Surgeon-General Sir W. D. Campbell Williams, K.C.M.G., C.B., L.R.C.P. (London), &c.	1
Prof. W. A. Haswell, M.A., D.Sc., F.R.S.	5
*Prof. T. W. E. David, B.A., C.M.G., F.R.S.	—
Prof. J. T. Wilson, M.B., Ch.M., F.R.S.	9
T. Storie Dixon, Esq., M.B., Ch.M.	8
W. H. Hargraves, Esq.	11
*Colonel R. E. Roth, C.M.G., D.S.O., V.D., M.R.C.S.E.	4
Eric Sinclair, Esq., M.D.	5
†Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C.	5
‡The Hon. F. E. Winchcombe, M.L.C.	6
§J. R. M. Robertson, Esq., M.D.	3
Ernest Wunderlich, Esq.	9
G. H. Abbott, Esq., B.A., M.B., Ch.M.	3

2. 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.

A summary of the income and expenditure for the year under review is as follows :—

	<i>Income.</i>	£	s.	d.
Endowment	1,000	0	0
Appropriation	9,666	0	0
Sales of publications and sundries	66	9	11
Total	£10,732	9	11

Expenditure.

Salaries, allowances for Sunday duty, overtime on holidays, and night watching	8,001	2	7
Repairs to property and insurance	539	8	5
Purchase and preservation of specimens, books and exhibition cases	382	7	8
Publication of "Records," &c.	182	0	0
Stores, stationery, uniforms and general expenses	757	0	3
Total	£9,861	18	11

It is still necessary to partially curtail the purchase of Books and Specimens, but it has been found possible to continue the publication of the "Records," and to carry on the winter course of Lectures. Those so far delivered have again been well attended.

3. STAFF.

The Trustees deplore the loss of three senior and long service members of the Staff. On 26th September, 1916, Mr. F. T. Clark, Accountant, died after a long and painful illness; Mr. S. Sinclair, Secretary, who had been ailing for some months, passed away on 3rd May, 1917; within three days of the latter, Mr. A. J. North, Ornithologist, succumbed suddenly.

The Trustees also regret to announce the death of Dr. Edward Pierson Ramsay on 16th December, 1916, who was their Curator from 22nd September, 1874, to 31st December, 1894. Obituary notices of Dr. Ramsay and Mr. S. Sinclair will be found in the "Records of the Australian Museum," Volume XI, Nos. 9 and 10, 1917. Another of the Junior Assistants, Mr. Ellis Le Geyt Troughton, enlisted for military service on 19th July, 1916. The Trustees have also, unfortunately, lost the services of their Taxidermist, Mr. Robert Grant, who retired through ill health on 30th June. The Library Clerk, Alfred T. Crowe, severed his connection with the Institution on 17th October, 1916, and his place was taken by the appointment, on 5th December, 1916, of C. C. R. Anderson, who remained but a brief period and was succeeded by Walter Cleary on 13th April, 1917. To partly replace a Junior Assistant (Mr. R. Bretnall), absent on active service, the Trustees engaged Miss J. Allan, whose work is referred to elsewhere.

Following

* Leave of absence granted for military duty. † Leave of absence granted for portion of year, but died during absence. ‡ Leave granted for portion of year, 2 Absence caused by severe illness.

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., Curator ...	18 April, 1887	1 Jan., 1895
Charles Hedley, J.P., Assistant Curator ...	1 " 1891	20 Dec., 1908
*Sutherland Sinclair, Secretary and Librarian ...	11 Sept., 1882	11 Sept., 1882
†Alfred J. North, Ornithologist ...	1 Dec., 1886	4 Aug., 1891
Wm. J. Rainbow, J.P., Entomologist ...	1 Sept., 1896	1 Sept., 1896
Charles Anderson, M.A., D.Sc., Mineralogist ...	22 " 1901	22 July, 1901
Allan R. McCulloch, Zoologist ...	1 " 1901	1 " 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
†Frank T. Clark, C.A., Accountant ...	1 Jan., 1896	1 Jan., 1896
Wm. A. Rainbow, Assistant Librarian (subsequently Acting) ...	1 Aug., 1904	1 Oct., 1906
Jas. A. Trimble, Clerk (subsequently Accountant) ...	1 July, 1909	1 " 1916
T. A. Murphy, Messenger (subsequently Clerk) ...	1 May, 1911	1 " 1916
§Alfred J. Crowe, Library Clerk ...	14 Dec., 1914	14 Dec., 1914
§C. C. R. Anderson, " ...	5 Dec., 1916	5 Dec., 1916
W. Cleary " ...	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
¶Robert Grant, Taxidermist ...	4 Aug., 1885	7 Aug., 1907
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
Henry S. Grant, Collector and Assistant to Taxidermist ...	5 Oct., 1909	1 Jan., 1913
Chas. G. Clutton, Articulator ...	25 April, 1904	1 May, 1913
Herbert Jackson, Assistant to Artificer ...	9 June, 1910	9 June, 1910
||Joseph Kingsley, do Articulator ...	21 July, 1913	21 July, 1913
John Cronin, Chief Attendant ...	5 " 1909	5 " 1909
Robert Long, Senior do ...	3 April, 1894	8 Feb., 1897
Arthur Barnes, First Attendant ...	— " 1897	1 Jan., 1905
J. T. Lee, Attendant ...	11 Sept., 1905	5 April, 1909
J. H. Wright, do ...	13 May, 1908	1 July, 1908
John Flanagan, do (subsequently Messenger) ...	1 July, 1909	1 " 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
Mrs. K. Fraser, do ...	1 April, 1889	1 April, 1889
Charles E. Long, Night Attendant ...	6 Mar., 1915	6 Mar., 1915
||Alexander Mackay, do ...	13 Mar., 1915	13 Mar., 1915
Murdock Mackay, Temporary Night Attendant ...	11 Sept., 1915	11 Sept., 1915

* Died 3rd May, 1917. † Died 6th May, 1917. ‡ Died 26th September, 1916. § Left the service. || Absent on military duty.
¶ Retired 30th June, 1917.

4. 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 133,645, averaging 510 per day, and on Sundays 52,399, averaging 1,008 per day, making a total of 186,044. 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, &c., are admitted and given every facility for study.

ATTENDANCE OF VISITORS.

SUMMARY.					Week-days.	Sundays.	Total.
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

* For 1873-79-80 only.

5. LECTURES.

The winter course of Monthly Lectures was resumed, and the following were given in the Lecture Theatre, on Thursday evenings, at 8 o'clock:—

12th April—"The Scenery of Eastern Australia," E. C. Andrews;

10th May—"Monkeys," C. Hedley;

14th June—"Gemstones," C. Anderson, M.A., D.Sc.;

and it is intended to give the following before the close of the year 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.

Blind pupils from the Deaf, Dumb, and Blind Institution, Darlington, received on three occasions popular zoological instruction from Mr. C. Hedley, by explanation and manipulation, in the Lecture Theatre.

6. ACQUISITIONS.

Purchase of specimens having been more or less suspended, very few articles were acquired by that means, and exchange transactions were also curtailed owing to the generally depressed state of affairs.

The reception from His Excellency the Lieut.-Governor of British New Guinea, during October, 1915, of the whole of the New Guinea Official Ethnological Collection, in trust, for the purpose of storage and safe keeping, until such time as suitable arrangements can be made elsewhere for the proper housing and display of this valuable series, was duly recorded in the Annual Report for 1915-16. The Trustees now desire to report that a further series has been received from the same source, and added to the collection in chief.

The following is a list of the principal Accessions during the year:—

(a) DONATIONS.

Mammals.—Some rare mammals were received from the Trustees of the Taronga Park Zoo, including fine specimens of geographical variations of the Wallaroo, *Macropus robustus*, var. *woodwardi*, and var. *occidentalis*. Also a remarkable colour variation of the Common 'Possum (*Trichosurus vulpecula*) from North-west Australia; and various desiderata among the smaller Marsupials, thereby greatly enriching this section of the collections. An interesting gallery exhibit was prepared from a nest of *Acrobates pygmaeus*, from Ebor, New South Wales—Mr. Harry Burrell.

Reptiles.—Reptiles from Mackay District, Queensland—Mr. T. Steel.

Fish.—From the Fishery Department of New South Wales several rarities obtained in the markets by Inspector Smithers. They include two species of *Aprion*, which have not hitherto been recognised from New South Wales waters, and of which coloured casts have been prepared for exhibition purposes. From the General Manager of the State Trawling Department a large Numb Fish (*Narcacion fairchildi*) and a Seven-gilled Shark (*Heptanchias perlo*), of which excellent casts have been placed on exhibition. Specimens and casts of market fishes by the Curator of the Technological Museum.

Hemichorda.—A specimen of *Ptychodera australiensis*, Hill, from Long Reef, New South Wales, is a new record for Hill's species, previously known from Broken Bay—Dr. S. J. Johnston.

Insects and Arachnida.—Coleoptera from Walcha—Mr. A. R. McCulloch; Coleoptera, including many co-types—Mr. H. J. Carter; Tasmanian Diptera—Mr. G. H. Hardy; Coleoptera, chiefly Mordellidae, with Araneidae from Lord Howe and Norfolk Islands—Board of Governors, South Australian Museum; Insecta and Araneidae from Bago Forest, Batlow—Mr. C. Rosegger.

Crustacea.—Giant Freshwater Prawns (*Eupalaemon carcinus*) from British New Guinea—Mr. R. J. Tillyard; Crab (*Zewa banfieldi*) from Dunk Island, Queensland, the second example known—Mr. E. T. Banfield; Land Crayfish (*Engaeus*, sp.) from Batlow, being the first of the group known from New South Wales—Mr. C. Rosegger.

Worms.—Twenty-one type slides of Trematodes from Australian Birds recently described in the *Proceedings Royal Society New South Wales*, vol. 1., pl. 2, 1917—Dr. S. J. Johnston.

Hydromedusae.—Specimens of an ambulatory Medusa (*Eleutheria*) as well as its fixed stage (*Clavatella*) from Port Jackson. This is a new record for Port Jackson, besides being a new record for Australia—Prof. W. A. Haswell.

Minerals.—Thirty-one specimens from Ironbarks Creek, near Barraba, New South Wales, principally Vesuvianite, Chromite and Asbestos (Chrysotile)—Mr. D. A. Porter. Four specimens of Precious Opal from the new field in the Stuart Range, South Australia—Messrs. J. and R. O'Neill.

Ethnology.—Small collection (fourteen) of implements and ornaments from the Solomon Group—Mr. W. L. Liddell; Carved Tree from Grenfell District—Forester W. S. Ryall; small collection (twenty-five) of implements and ornaments of the Barotzi Tribe, Upper Zambesi River, Africa—Colonel R. E. Roth; specimens from the Bismarck Archipelago, &c., including a Mask, a Carved Board, with four Goorka Kukris from Nepal—Dr. Harold Browne; Aboriginal Axes from Bogan River, &c.—Mr. J. H. Maiden.

Numismatics.—Metal and Worsted Volunteer Badges, Commonwealth Military Forces, with the Military Cross, Military Medal, Distinguished Conduct Medal and Volunteer Decoration, accompanied by the requisite ribbons for each—His Majesty's Army Council through the New South Wales Department of Public Instruction.

(b) EXCHANGES.

Insects.—Alpine Lepidoptera from New Zealand.

Minerals.—Two hundred and twenty-seven specimens, chiefly from the New England District, and comprising fine examples of Cassiterite, Stibnite, Bismuth and Molybdenum Ores, Scheelite, Wolfram, Azurite, Beryl, Chabazite, Calcite, &c.

Ethnology.—Bushmen Flakes, Port Elizabeth Museum; various African specimens, including five Bushmen Celts from Krugersdorp; fine series of ceremonial ornaments, together with some ornate arrows, spears, drums, &c., from Netherlands New Guinea, bordering on the British territory in the vicinity of the Fly River.

(c) PURCHASES.

Birds.—North Collection of Australasian Birds' Eggs.

Insecta and Arachnida.—One thousand three hundred and seventy-three Australian Beetles, chiefly from Western Australia, but all States represented.

Ethnology.—Weapons, implements, pottery and ornaments, illustrating the culture of the Awemba Tribe, on the Kalunguisi River, Rhodesia. Weapons from the Lachlan River District. Ceremonial Masks from the Papuan Gulf, through interest taken in the acquisition, by H. C. Hoyle, Esq., M.L.A.

(d) COLLECTION.

Shells.—Two thousand seven hundred and eighty-two specimens, inclusive of six hundred and thirty-eight species, from the Great Barrier Reef—Collectors, C. Hedley and E. A. Briggs.

Insecta and Arachnida.—Insecta generally, but chiefly Lepidoptera, from the neighbourhood of Rabaul, New Britain, and "German" New Guinea—Collector, Private W. J. Potter.

Reptiles.—Reptiles from the Kimberley District, North-west Australia—Collector, Dr. H. Basedow.

Fishes.—One hundred and sixty-eight specimens from North Queensland waters, including a number not hitherto represented in the Museum—Collectors, C. Hedley and E. A. Briggs; valuable specimens from Lord Howe Island—Collector, P. R. Pedley.

Sponges.—A specimen of one of the commercial Sponges, *Spongia officinalis*, var. *rotunda*, from the Great Barrier Reef, outside Cooktown, at a depth ranging to about three fathoms. This variety is fished extensively in the Bahamas and West Indies, where it is known as the "Hard-head"; hitherto it has not been observed in Australian waters.

Corals.—From an uncharted island in Collier Bay, North-west Australia—Collector, Dr. H. Basedow.

General.—As a result of collections made on the Great Barrier Reef, numerous specimens of Hydroid Zoophytes, Corals, Alcyonarians, Echinoderms and Marine Worms were secured, and gallery exhibits have been selected and prepared from this material—Collectors, C. Hedley and E. A. Briggs.

Minerals.—From the Belubula Caves, Carcoar district, a fine series of 214 specimens of Crystallised Calcite, consisting of single crystals (163), crystal groups (38), crystalline masses (16)—Collector, C. Anderson.

Ethnology.—Two general collections from Madang, "German" New Guinea, and Bougainville Island, Solomon Group—Collector, Private W. J. Potter; two fine series from the Kimberley District, North-west Australia—Collector, Dr. H. Basedow.

Palæontology.—Devonian, Carboniferous and Triassic fossils from various localities in the Kimberley District, North-west Australia—Collector, Dr. H. Basedow.

7. CURATORIAL WORK.

Conchology.—During the latter portion of 1916, Mr. Hedley was chiefly occupied in the elaboration of the Antarctic Mollusca, collected by Sir Douglas Mawson's Australasian Antarctic Expedition in 1911-14. This has been published as one of the Scientific Reports of the Expedition. Numerous determinations were also made for Dr. T. Harvey Johnston, in aid of the latter's biological survey of Caloundra, Queensland. Shell-remains from the stomachs of birds were examined and named, as assistance to investigations into this important subject at the South Australian Museum, Adelaide.

Freshwater

Freshwater Mollusca, with suggestions and determinations, were supplied to Dr. J. B. Cleland, to aid his study of *Bilharzia*, a parasite causing internal hæmorrhage, and very rife in the Oriental Tropics, freshwater Mollusca serving the parasite as host in its young stage. Returned soldiers are suffering from *Bilharzia*, and the question is, If the plague be introduced, will, and how will, Australian pond snails spread it?

Miss J. Allan has now accomplished much useful work in sorting and classifying material from the Cox and other collections stored for some years.

Considerable time was devoted to a revision of the Australian Pleurotomidæ, a long and difficult task, which was frequently interrupted, and is still unfinished.

A large collection of Torres Strait Mollusca was named for our correspondents at Harvard University.

As Chairman of a special committee on Marine Tropical Industries, for the Commonwealth Advisory Council of Science and Industry, Mr. Hedley was able to bring profit to the Museum as well as to fulfil unpaid public duty. By the Senate of the University of Melbourne he was awarded the "David Syme" prize for Zoological research.

The following papers by him were published during the year:—

"Studies on Australian Mollusca," Part xiii, *Proc. Linn. Soc. N. S. Wales*, xli, pp. 680—719, plates 46—52.

"Further Notes on *Bursa rubeta*, Linn.," *Journal of Conchology*, xv, pp. 41—2.

"Notes on Operculum Evolution," *Nautilus*, xxx, 1917, pp. 97—9.

"A Preliminary Index of the Mollusca of Western Australia," *Journ. Roy. Soc. W. Austr.*, i, pp. 152—226.

"Transport of the Coconut across the Pacific Ocean," *Man*, January, 1917, pp. 6—7.

Fish.—Some changes, Mr. McCulloch reports, were effected in the Fish gallery, by which a number of interesting coloured casts were placed on exhibition.

During the year the Spirit House collection of Fishes has been completely overhauled and re-arranged, which brings them into line with the other vertebrates in spirit. All these are now card-indexed, and any can be readily traced as required.

The identification of the Fishes collected by the late Federal trawler, "Endeavour," was continued as opportunity offered, but owing to the shortage of assistance and the large amount of routine work, it has not been possible to proceed with this as rapidly as previously. A fourth part of the Report upon the Fishes was published in October. Other papers have been prepared upon various Australian Fishes and published in the "Records," xi, Pt. 7, and in "The Memoirs of the Queensland Museum," v, while joint papers with Messrs. E. R. Waite and J. D. Ogilby have appeared in the "Transactions of the Royal Society of South Australia," xl, and in the "Memoirs of the Queensland Museum," v.

Entomology.—Mr. W. J. Rainbow reports that a new cabinet was obtained, in which the Papuan and South Sea Island Rhopalocera have been arranged. This is a most important work, not only relieving our store boxes, which are unsafe to keep such valuable material in, but also facilitates study. Similarly, the Papuan and Island Coleoptera have also been arranged and marshalled together. The collections in cabinets, boxes, and Spirit House have been periodically and systematically overhauled, thus ensuring the collection being perfectly clean and in good order. The gallery has also received constant attention and is free from pests. The Arachnida cabinet, owing to the large additions to our Araneidæ collection from North Queensland, Central Australia, and the Pacific Islands during the past two years, has been partially rearranged so as to allow for the incorporation of these valuable acquisitions. The task is necessarily a long one, and will demand much additional time, but the work is being proceeded with.

Invertebrata (other than Shells, Insects and Arachnida).—On Mr. E. A. Briggs' return from a collecting trip with Mr. C. Hedley to the Great Barrier Reef in July and August, 1916, the collections made were unpacked, sorted, and distributed to the various members of the staff, and the Invertebrates were registered, catalogued, and distributed among the Spirit House and dry store collections. Specimens suitable for gallery exhibits were selected, mounted, and placed in the cases, accompanied by explanatory labels.

Old labels were removed from the galleries and replaced by new ones with accompanying photographs. During the year the specimens in the galleries and stores have been frequently examined, and spirit and naphthalene replenished as found necessary. In the Spirit House the collections of Hydrozoa and Aleyonaria have been registered and catalogued, and the "Endeavour" Invertebrates sorted and brought together in

in one section of the Spirit House. Mr. Briggs also prepared a Catalogue of the Hydroid Zoophytes of the Coast of New South Wales, to be published by the Royal Society of New South Wales, and he is now engaged on a Revision of the Hydroids of Lord Howe Island.

Ethnology.—The entire exhibited portion of the Ethnological Collection was overhauled and cleaned under the superintendence of Mr. W. W. Thorpe, who also added many interesting objects new to the collection. Here it may be stated that the Curator has for a long time past had under investigation the "Dendroglyphs" or "Carved Trees" of this State, the only portion of the Continent on which they are known to occur. In this he has been ably assisted by Mr. Thorpe. It is hoped the results of this interesting investigation will be published ere long.

Numismatics.—In December, 1916, the new coin cabinet, containing fifty-one drawers, was placed in position in the Coin-room. This cabinet is intended for all coins other than British, and up to the present time the French, Spanish, Portuguese and German have been transferred and labelled by Mr. Thorpe. A large series of pieces known as the Redman Collection were also incorporated in the general collection.

8. FIELD WORK.

Very few opportunities presented themselves of acquiring additions to the Collection by outdoor operations, a fact easily accounted for if the present state of affairs, and a reduced Staff, are taken into consideration.

Messrs. Hedley and Briggs spent a portion of July and August (1916) on and about the Great Barrier Reef, about the latitude of Cooktown, and did excellent work. At Easter, Mr. Hedley proceeded to the neighbourhood of Hobart for Conchological researches.

Further afield, the Trustees were glad to avail themselves of the services of Private W. J. Potter, of the Australian Imperial Force at Rabaul, New Britain, who, by special permission of the Officer Commanding thereat, has acted as an honorary collector for a considerable time past, not only in New Britain, but also in the neighbourhood of Madang, in "German" New Guinea, and Fisi, on Bougainville Island, Solomon Group. The good work done by Private Potter, often under adverse circumstances, is much appreciated by the Trustees.

Mr. W. W. Thorpe, in January, 1917, proceeded to Birriwa, near Dunedoo, to investigate the occurrence of stencilled hands in rock-shelters around there.

The reported discovery of fine nests of Calcite Crystals at the Beluluba Caves, near Carcoar, was investigated by Dr. C. Anderson, who spent some time there, and was most successful in obtaining a fine series of representative specimens.

9. ARRANGEMENT OF SPECIMENS AND EXHIBITION CASES.

The relabelling and in many instances remounting of the Marsupials, referred to in the 1911-15 and 1915-16 Reports, is now complete.

In the New Guinea Room an entirely new case was constructed for the collection of Ceremonial Masks and Maskettes from the Papuan Gulf, which had previously been arranged in one of a temporary character. This is now admitted to be amongst the finest displays in the Museum.

In the Educational Group Series one group only was added to those already existing, Skulls and Mandibles of the *Thylacoleo* or "Marsupial Lion."

When a large floor case is prepared for the Turtles, now lying in the open, a second for a group of Peacocks, and a third for the exhibition of an additional Marsupial Group, subject not yet determined, the display capacity of the Museum will have come to an end.

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.

10. BUILDINGS AND GROUNDS.

The Museum Buildings continue to be maintained in good order.

In their last Report the Trustees briefly stated that the Municipal Council of Sydney had given the requisite notice by proclamation that, in connection with a proposed widening of William-street, it was intended to resume about 371 x 34 feet of the Trustees' property along the north alignment, and in consequence the Trustees' "Notices of Claim and Abstract" were sent through their legal advisers (Messrs. Norton, Smith & Co.) on 10th August, 1916.

The proclamation was gazetted on 1st June, 1916, at which date the resumption took effect.

Operations by the Municipal Council were commenced on Wednesday, 6th September, 1916, when the Trustees thereupon appointed a Resumption Committee to watch the interests of the Trust. This Committee was later invested with plenary powers. The first suggestion emanating from the City Council was to the effect that the resumed area be conveyed to that body free of cost, in return the latter to construct a suitable retaining wall of masonry, &c., at an estimated cost of from £3,000 to £3,500. It was at once pointed out by the Trustees' legal advisers that a conveyance on such terms would be a serious breach of trust, could not be entertained, and that by the Act of Incorporation and Endowment the Trustees had not the power, even with the assent of His Excellency the Governor, to alienate or otherwise dispose of any lands comprised in the Crown Grant of 11th May, 1854, *save for full and adequate consideration*. The City Council officers took exception to this view, and contended that the Trustees were not alienating the land because of resumption, but that it was simply diverted from their control and vested in the City Council, but at the same time admitted the Trustees to have a claim for some compensation against the latter.

As the work of soil removal went on it was ascertained by the Trustees' engineer (Mr. R. W. Richards, C.E.) that the excavation at one part encroached on the Museum lands beyond the line of resumption, *thereby constituting a trespass*, and exposing the principal water and gas mains to a dangerous extent; but it was subsequently intimated that the removal of this soil would be made good upon the completion of the proposed retaining or breast wall.

At a meeting of the City Council on 25th September, 1916, it was decided to erect this retaining wall at an amended cost up to £4,000, subject, nevertheless, to the Trustees conveying the land required for the street widening free of cost, or simply waiving all claims to other compensation for the land taken. At this juncture the Trustees' legal advisers, with a view of clearing the atmosphere of doubt, definitely asked the Town Clerk whether or no the Council would recede from the foregoing position, otherwise it would be difficult, if not impossible, to continue negotiations. *A reply was received in the negative*. Subsequently the City Council invited a personal conference upon the subject.

On 12th January, 1917, the Resumption Committee and the City Council's officers, with their professional valuers retained in the case (the Town Clerk in the chair), met in conference, but after a general discussion and exchange of views it was found impossible to continue the conference with any profit, in the face of the Council's resolution of 25th September, 1916.

The next stage in these negotiations was an invitation from the Lord Mayor to the Trustees to join him in a deputation to the Minister for Education, with the view of the Council obtaining possession of the Yurong-street Public School and site, which had been mentioned as the possible equivalent in intrinsic value of the strip of Museum land resumed. This joint interview took place on 19th February, 1917, but without entering into details may be said not to have advanced the negotiations at all.

No further advances were made until 19th April, when the City Surveyor met the Trustees' Resumption Committee, and exhibited plan and elevation of the suggested treatment of the William-street bank and Museum approach. After suggestions by the Trustees' engineer for the betterment of some minor points in the scheme (which were accepted by the City Surveyor), the documents in question were signed by the President (Mr. H. H. B. Bradley) "in satisfaction of so much of the Board's claim as is in respect of wall and revetment, *but not of their claim for land taken*." To this the Town Clerk replied, "the Council considers that in treating the frontage of the Museum premises in the manner in which it is proposed to do, it is making ample compensation for all damage which has been done" to the Trustees' property, and reiterating that £4,000 is the full liability which the Council is prepared to accept, but if the renovations are completed for a less sum than the above, the difference between the two amounts would be paid to the Trustees *in full settlement of all claims*.

It subsequently appeared that on the City Surveyor submitting the plan and elevation in question, as before said, signed by the President of the Board of Trustees, to the Works Committee of the City Council, some exception was taken to certain of the constructive details, whereupon the chairman of the Works Committee

Committee met the Museum Resumption Committee on the ground (6th June), and submitted a variation of the scheme and plans. The matter was thrashed out *de novo*, and the proposed variation was unanimously pronounced impracticable. No further negotiations have so far taken place.

The City Council, although frequently reminded by letter and otherwise of its duty in that regard, has not even yet complied with the law by serving formal Notice of Valuation of the land taken. Section 96 of the Public Works Act, 1900—which has now become section 103 of the Public Works Act, 1912, and is incorporated in the Sydney Corporation Act, 1905—prescribes that within sixty days after receiving the Notice of Claim the City Solicitor shall report upon the claimant's title, and the Council shall thereupon cause a valuation of the land to be made, and shall, as soon as practicable thereafter, inform the claimant of the amount of such valuation by notice in the prescribed form.

11. PUBLICATIONS.

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

“Records of the Australian Museum,” Vol. XI—

Part 3—“Arachnida from Northern Queensland,” by W. J. Rainbow; Occasional Note, No. 2,

“Ova Sacs of *Arachnura trilobata*, Urquhart,” by W. J. Rainbow.

Part 4—“The Australian Museum: Fragments of its Early History,” by R. Etheridge, Junr.

Part 5—“Arachnida from Northern Queensland,” Part II, by W. J. Rainbow.

Part 6—“The Birds of Coolabah and Brewarrina, North-west New South Wales,” by A. J. North.

Part 7—“Studies in Australian Fishes,” No. 4, by A. R. McCulloch.

Part 8—“Additions to the Ethnological Collections, chiefly from the New Hebrides,” by R. Etheridge, Junr.

Part 9—“Obituary: Edward Pierson Ramsay, LL.D.,” by R. Etheridge, Junr.

Early History of the Museum.—Necessary researches for the preparation of Part 4 of Volume XI of “Records” threw a flood of light on the early history of the Museum. The foundation is usually credited to the year 1836, but documentary evidence, it appears, is in existence to show there was a collection in 1827, under the name of the “Colonial Museum,” with a Mr. W. Holmes installed as “Colonial Zoologist.” From this modest beginning arose the Australian Museum in 1836, although it appears both this and preceding title were alternatively in use for some time before 1836. The peregrinations of the youthful collection known as the “Colonial Museum” were rather remarkable, and will be dealt with by the Curator in a future portion of the “History.”

It has always been another article of faith that the first Curator was Mr. William Sheridan Wall, but such was not the case. The first occupant of that post was Dr. George Bennett, the “Father of Australian Zoology,” the second the Rev. William Branwhite Clarke, the “Father of Australian Geology,” and then Mr. Wall.

12. LIBRARY.

The additions during the year, exclusive of unbound periodicals and pamphlets, totalled 429 volumes, a list of which will be found at the end of this Report as Appendix 3.

13. APPENDICES.

The following appendices are attached, viz:—

1. Statement of Receipts and Expenditure.
2. List of the Publications of the Australian Museum.
3. Catalogue of the Additions to the Library.

The Common Seal of the Museum was hereunto affixed by }
order of the Board, this 22nd day of August, 1917.

R. ETHERIDGE, Curator.

H. H. B. BRADLEY, President.

APPENDIX I.

STATEMENT OF RECEIPTS AND EXPENDITURE FOR THE YEAR ENDED 30TH JUNE, 1916-17.

	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	1,522 15 10	.....	1,522 15 10	Salaries—	.....	750 0 0	.....
Statutory Endowment	1,000 0 0	.....	1,000 0 0	Curator .....	.....	400 0 0	.....
Parliamentary Appropriations—				Assistant Curator .....	.....	400 0 0	.....
Salaries .....	.....	7,736 0 0	.....	Secretary .....	.....	1,800 15 0	.....
Additional Endowment .....	.....	500 0 0	.....	Scientific Assistants .....	.....	884 13 7	.....
Contingencies .....	.....	1,430 0 0	9,666 0 0	Office Staff .....	.....	282 7 4	.....
				Junior Assistants .....	.....	1,328 0 0	.....
Miscellaneous—				Mechanics .....	.....	1,872 14 10	7,718 10 0
Sale of Lenses	7 0 0	.....	7 0 0	Attendants .....	.....	.....	.....
Sales of Publications	16 18 0	.....	16 18 0	Contingencies—	.....	282 11 10	.....
Interest from Savings Banks	42 11 11	.....	42 11 11	Overtime and Sundays .....	.....	120 14 10	.....
Cheque returned .....	.....	22 18 4	22 18 4	Insurance .....	.....	418 13 7	.....
				Building and Maintenance .....	.....	500 0 0	1,322 0 3
				North Collection of Eggs .....	.....	.....	.....
				Maintenance—	.....	.....	.....
				Purchase of Specimens	38 0 9	.....	.....
				Books	166 0 11	82 13 2	.....
				Cases	32 15 9	.....	.....
				Publications	182 0 0	.....	.....
				Preservation of Specimens	62 17 1	.....	564 7 8
				Working Expenses	28 2 11	310 11 7	.....
				Furnishing	4 0 0	103 7 6	.....
				General	307 1 6	3 7 9	757 0 3
				Refund to Treasury .....	.....	148 7 4	148 7 4
				Balance	1,767 17 10	.....	1,767 17 10
	£ 2,589 5 9	9,688 18 4	12,278 4 1		£ 2,589 5 9	9,688 18 4	12,278 4 1

Examined and found correct.

12th July, 1917.

A. CREAGH,
Inspector of Public Accounts.

APPENDIX II.

List of the publications of the Australian Museum:—

I.—Annual Reports.

Nos. 1-61. 1853-1916.

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, Palæicthyan 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. Heidman. 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. 1829-1914.

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, 1908-10; Vol. VIII, 1910-13; Vol. IX, 1912-3; Vol. X, 1913-5; Vol. XI, Parts 1-10, 1916-7

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.—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 Edit.
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 Publications prepared and arranged by S. Sinclair, Secretary and Librarian, assisted by W. A. Rainbow, Assistant Librarian. 1916.

ADDITIONS TO THE LIBRARY.

Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
18953	ANDREWS, Charles Wm. A descriptive catalogue of the tertiary vertebrata of the Fayum, Egypt. Based on the collection of the Egyptian Government in the Geological Museum, Cairo, and on the collection in the British Museum (Natural History), London. Printed by order of the Trustees of the British Museum.		18962	BANKS, Nathan. Collected papers. Contains:—	
	1 vol. 4to. London, 1906.	Presented		1. Arachnida of the Harriman Alaska Expedition. (<i>Harriman Alaska Expedition</i> , viii, 1904.)	
18986	BAILEY, F. Manson. Collected papers. Contains:—			2. Papers from the Harriman Alaska Expedition. xl. Entomological Results (5): Arachnida. (<i>Washington Acad. Sci.</i> , ii, 1900.)	
	1-6. Contributions to the flora of Queensland. (<i>Q'land Agric. Journ.</i> , xiv-xvi, 1904-1905.)			3. On two genera of Mites. (<i>Canadian Entom.</i> , xxxii, 1900.)	
	7. Contributions to the flora of Queensland and New Guinea. (<i>Q'land Agric. Journ.</i> , xvi, 1906.)			4. Some new North American Spiders. (<i>Canadian Entomologist</i> , xxxii, 1900.)	
	8-21. Contributions to the flora of Queensland. (<i>Q'land Agric. Journ.</i> , xvi-xviii, 1906-1907, xx-xxii, 1908-1909.)			5. Synopses of North American Invertebrates IX. The Scorpions, Solpugids, and Pedipalpi. (<i>Amer. Nat.</i> , xxxiv, 1900.)	
	22. Contributions to the flora of British New Guinea. (<i>Q'land Agric. Journ.</i> , xxii, 1909.)			6. The Red Spiders of the United States. (<i>Tetranychus and Stigmaeus</i>). (<i>U.S. Dept. Agric. Div. Ent., Bull. Tech. Ser.</i> , 8, 1900.)	
	23. Contributions to the flora of Queensland. (<i>Q'land Agric. Journ.</i> , xxiii, 1909.)			7. Some Arachnida from Alabama. (<i>Acad. Nat. Sci., Philadelphia, Proc.</i> , 1900.)	
	24. Contributions to the flora of British New Guinea. (<i>Q'land Agric. Journ.</i> , xxiv, 1910.)			8. A new genus of Endoparasitic Acarians. (<i>Overgedrukt uit het Geneskundig Tijdschrift voor Ned.-Indie</i> , xli, 1901.)	
	25. Contributions to the flora of Queensland and British New Guinea. (<i>Q'land Agric. Journ.</i> , xxiv, 1910.)			9. Synopses of North American Invertebrates, XVI. The Phalangida. (<i>American Naturalist</i> , xxxv, 1901.)	
	26-44. Contributions to the flora of Queensland. (<i>Q'land Agric. Journ.</i> , xxiv-xxix, 1910-1912.)			10. Notes on some Spiders of Walckenaer, Koch, and others. (<i>New York Entomological Soc. Journ.</i> , ix, 1901.)	
	45. On the so-called "African Wonder Grass." (<i>Q'land Agric. Journ.</i> , xxi, 1908.)			11. Some Spiders and other Arachnida from Southern Arizona. (<i>U.S. National Museum, Proc.</i> , xxiii, 1901.)	
	In 1 vol. 8vo. Brisbane, 1904-12.	Presented		12. Some Spiders and other Arachnida from Porto Rico. (<i>U.S. National Museum, Proc.</i> , xxiv, 1901.)	

Reg. No.	Books.	How acquired	Reg. No.	Books.	How acquired
18962	BANKS, Nathan. Collected Papers— <i>continued</i> .		19050	BRAGG, W. H. and W. L. X Rays and Crystal Structure.	
	13. Some Spiders and Mites from the Bermuda Islands. (<i>Connecticut Acad. Arts and Sci., Trans.</i> , xi, 1901-1902.)			1 vol. 8vo. London, 1915.	Purchased
	14. Some Arachnida from New Mexico. (<i>Acad. Nat. Sci., Philadelphia, Proc.</i> , 1901.)		18972	BRYAN, William Alanson. Natural History of Hawaii, being an Account of the Hawaiian people, the Geology and Geography of the Islands, and the Native and Introduced Plants and Animals of the Group.	
	15. New Genera and Species of Acarians. (<i>Canadian Entom.</i> , xxix, 1902.)			1 vol. 8vo. Honolulu, 1915.	Purchased
	16. Daddy-long-legs from Mt. Katahdin, Maine. (<i>Entomological News</i> , 1902.)		18644	BURCKHARDT, Carlos. La Faune Jurassique de Mazapil avec un appendice sur les Fossiles du Crétacique Inférieur. (<i>Boletín del Instituto Geológico de Mexico</i> , 23.)	
	17. A list of Spiders collected in Arizona by Messrs. Schwarz and Barber during the summer of 1901. (<i>U.S. National Museum, Proc.</i> , xxi, 1902.)			1 vol. 4to. Mexico, 1906.	Presented
	18. Secondary Sexual Characters in Spiders. (<i>Entom. Soc., Washington, Proc.</i> , v, 1903.)		18938	CARPENTER, Philip P. The Mollusks of Western North America. Embracing the Second Report made to the British Association on this subject, with other papers; reprinted by permission, with a General Index. (<i>Smithsonian Miscellaneous Collections</i> , 252.) Contains:—	
	19. A new Genus of Solpugida. (<i>Entomological News</i> , 1903.)			(a) Supplementary Report on the present state of our Knowledge with regard to the Mollusca of the West Coast of North America. (<i>Report British Assoc. Adv. Sci.</i> , 1863.)	
	20. A List of Arachnida from Hayti, with descriptions of new species. (<i>Acad. Nat. Sci., Philadelphia, Proc.</i> , 1903.)			(b) Review of Prof. C. B. Adams' "Catalogue of the Shells of Panama," from the Type Specimens. (<i>Proc. Zool. Soc. London</i> , 1863.)	
	21. Some Arachnida from California. (<i>California Acad. Sci., Proc.</i> (3) <i>Zoology</i> , iii, 1904.)			(c) Diagnoses of New Forms of Mollusks collected at Cape St. Lucas, Lower California, by Mr. J. Xantus. (<i>Ann. and Mag. Nat. Hist.</i> (3), xiii-xiv, 1864.)	
	22. The Arachnida of Florida. (<i>Acad. Nat. Sci., Philadelphia, Proc.</i> , 1904.)			(d) Contributions towards a Monograph of the Pandoridæ. (<i>Proc. Zool. Soc., London</i> , 1864.)	
	23. New Genera and Species of Nearctic Spiders. (<i>New York Entom. Soc. Journ.</i> , xii, 1904.)			(e) Diagnoses of New Forms of Mollusca from the Vancouver District. (<i>Ann. and Mag. Nat. Hist.</i> (3), xiv-xv, 1864-1865.)	
	24. Arachnida from Cocos Island. (<i>Entom. Soc., Washington, Proc.</i> , vii, 1905.)			(f) Diagnoses of New Forms of Mollusca from the Vancouver District. (<i>Proc. Zool. Soc., London</i> , 1865.)	
	25. An alleged Parasitic Tyroglyphid. (<i>Entom. Soc., Washington, Proc.</i> , vii, 1905.)			(g) Diagnoses of New Species and a New Genus of Mollusks, from the Reigen Mazatlan Collection; with an Account of Additional Specimens presented to the British Museum. (<i>Proc. Zool. Soc., London</i> , 1865.)	
	26. A new Genus and Species of Phalangida. (<i>Entomological News</i> , 1905.)			(h) Descriptions of New Species and Varieties of Chitonidæ and Acmæidæ, from the Panama Collection of the late Prof. C. B. Adams. (<i>Proc. Zool. Soc., London</i> , 1865.)	
	27. Synopses of North American Invertebrates, XX. Families and Genera of Araneida. (<i>American Naturalist</i> , xxix, 1905.)			(i) Diagnoses of New Species of Mollusks, from the West Tropical Region of North America, principally collected by the Rev. J. Rowell, of San Francisco. (<i>Proc. Zool. Soc., London</i> , 1865.)	
	28. Descriptions of some New Mites. (<i>Entom. Soc., Washington, Proc.</i> , vii, 1906.)			(j) Diagnoses of New Forms of Mollusca, from the West Coast of North America, first collected by Col. E. Jewett. (<i>Ann. and Mag. Nat. Hist.</i> (2) xv, 1865.)	
	29. Descriptions of new American Spiders. (<i>Entom. Soc., Washington, Proc.</i> , vii, 1906.)			(k) Diagnoses of New Forms of Mollusca, collected by Col. E. Jewett, on the West Tropical Shores of North America. (<i>Ann. and Mag. Nat. Hist.</i> (3) xv, 1865.)	
	30. A Catalogue of the Acarina, or Mites of the United States. (<i>U.S. National Museum, Proc.</i> , xxvii, 1907.)			(l) Diagnoses des Mollusques nouveaux provenant de Californie et faisant partie du Musée de l'Institut Smithsonianien. (<i>Journ. de Conch.</i> xii, (3), v, 1865.)	
	31. A Preliminary List of the Arachnida of Indiana, with Keys to Families and Genera of Spiders. (<i>31st Ann. Report, Dept. Geol. and Nat. Resources of Indiana</i> , 1906.)			(m) On the Pleistocene Fossils collected by Col. E. Jewett, at Santa Barbara, California; with Descriptions of New Species. (<i>Ann. and Mag. Nat. Hist.</i> (3) xvii, 1866.)	
	32. Three New Species of Tropical Phalangida. (<i>Entom. Soc., Washington, Proc.</i> , ix, 1908.)			1 vol. 8vo. Washington, 1872.	Presented by C. Hedley.
	33. Annual Address of the President—Some Phases of Protective Resemblance in our Spiders. (<i>Entom. Soc., Washington, Proc.</i> , ix, 1908.)		18981	CHILTON, Charles. Collected Papers.	
	34. New Species of Therididæ. (<i>Canadian Entomologist</i> , 1908.)			Contains:—	
	35. The Pseudoscorpions of Texas. (<i>Wisconsin Nat. Hist. Soc. Bull.</i> , vi, 1908.)			1. Report of some Crustacea dredged off the Coast of Auckland. (<i>New Zealand Inst. Trans.</i> , xxxviii, 1905.)	
	36. Arachnida from Costa Rica. (<i>Acad. Nat. Sci., Philadelphia, Proc.</i> , 1909.)			2. List of Crustacea from the Chatham Islands. (<i>New Zealand Inst., Trans.</i> , xxxviii, 1905.)	
	In 1 vol. 8vo. Presented by W. J. Rainbow			3. Description of a Species of <i>Phreaticus</i> from the surface waters of New Zealand. (<i>New Zealand Inst. Trans.</i> , xxxviii, 1905.)	
18983	BENHAM, W. Blaxland. Collected Papers.			4. Notes on the Distribution of some Species of Terrestrial Isopoda introduced into Australasia. (<i>Ann. Mag. Nat. Hist.</i> (7), xci, 1905.)	
	Contains:—			5. Notes on some Crustacea from the Fresh-water Lakes of New Zealand. (<i>Zool. Soc. London, Proc.</i> , 1906.)	
	1. Note on the Occurrence of the Genus <i>Balanoglossus</i> in New Zealand Waters. (<i>Trans. New Zealand Institute</i> , 1899.)			6. Notes on the Callinassidæ of New Zealand. (<i>New Zealand Inst. Trans.</i> , xxxix, 1906.)	
	2. An Account of <i>Acanthodrilus uliginosus</i> Hutton. (<i>Trans. New Zealand Inst.</i> , xxxiii, 1900.)			7. Note on the Crab <i>Hymenosoma depressum</i> , Jacquinot and Lucas. (<i>Ann. Mag. Nat. Hist.</i> (7), xix, 1907.)	
	3. On some Earthworms from the Islands around New Zealand. (<i>Trans. New Zealand Inst.</i> , xxxiii, 1900.)			8. A new Freshwater Gammarid from New Zealand. (<i>Ann. Mag. Nat. Hist.</i> (7), xix, 1907.)	
	4. On a New Species of Earthworm from Norfolk Island. On an Earthworm from the Auckland Islands— <i>Notiodrilus aucklandicus</i> . On the Old and some New Species of Earthworms belonging to the Genus <i>Plagiochaeta</i> . (<i>Trans. New Zealand Inst.</i> , xxxvi, 1903.)			9. The Freshwater Amphipoda of New Zealand. (<i>New Zealand Inst. Trans.</i> , xli, 1908.)	
	5. The Sipunculids of New Zealand. (<i>Trans. New Zealand Inst.</i> , xxxvi, 1903.)			10. Note on the Amphipodan Genera <i>Bircenna</i> , <i>Kuria</i> , and <i>Wandella</i> . (<i>New Zealand Inst. Trans.</i> , xli, 1908.)	
	6. On a New Species of Leech (<i>Hirudo antipodum</i>) recently discovered in New Zealand. (<i>Trans. New Zealand Inst.</i> , xxxvi, 1903.)			11. On an Isopod inhabiting Ants' Nests in New Zealand. (<i>New Zealand Inst. Trans.</i> , xlii, 1909.)	
	7. A Note on the Oligochaeta of the New Zealand Lakes. (<i>Trans. New Zealand Inst.</i> , xxxvi, 1903.)			12. Additions to the Terrestrial Isopoda of New Zealand. (<i>New Zealand Inst. Trans.</i> , xlii, 1909.)	
	8. On some New Species of Aquatic Oligochaeta from New Zealand. (<i>Proc. Zool. Soc., London</i> , 1903, ii.)			13. Note on the Dispersal of Marine Crustacea by means of Ships. (<i>New Zealand Inst. Trans.</i> , xliii, 1910.)	
	9. On some Edible and other New Species of Earthworms from the North Island of New Zealand. (<i>Proc. Zool. Soc., London</i> , 1904, ii.)				
	10. On some New Species of the Genus <i>Phreodrilus</i> . (<i>Quart. Journ. Micro. Sci.</i> , 48, 1904.)				
	11. On a New Species of the Genus <i>Haplotaxis</i> ; with some Remarks on the Genital Ducts in the Oligochaeta. (<i>Quart. Journ. Micro. Sci.</i> , 48, 1904.)				
	12. Some Earthworms from the North Island of New Zealand. (<i>Trans. New Zealand Inst.</i> , xxxvii, 1904.)				
	13. On the Oligochaeta from the Southern Islands of the New Zealand Region. (<i>Trans. New Zealand Inst.</i> , xxxvii, 1904.)				
	14. Earthworms from the Kermadecs. (<i>Trans. New Zealand Inst.</i> , xxxvii, 1904.)				
	15. Further Notes on the Sipunculids of New Zealand. (<i>Trans. New Zealand Inst.</i> , xxxvii, 1904.)				
	16. Additional Notes on the Earthworms of the North Island of New Zealand. (<i>Trans. New Zealand Inst.</i> , xxxviii, 1905.)				
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14.	Revision of the New Zealand Stomatopoda. (<i>New Zealand Inst. Trans.</i> , xliii, 1910.)		18861	Nova Guinea. Résultats. Vol. vi. Géologie, Livr., i-ii, 1913-1914.	
15.	The Crustacea of the Kermadec Islands. (<i>New Zealand Inst. Trans.</i> , xliii, 1910.)		18861	Do Vol. vii. Ethnographie, Livr., i, 1913.	
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18.	Note on <i>Orchestia parvispinosa</i> , M. Weber, a Terrestrial Amphipod from Java. (<i>Leyden Museum Notes</i> , xxxiv.)		18868	Do Vol. xii. Botanique, Livr., i, 1913.	
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	11. Fishes of the Genus Tripterygion and related Genera in New Zealand. (Canterbury Museum Records, ii, 1913.)		19056	COMMONWEALTH BUREAU OF CENSUS AND STATISTICS. Official Year Book of the Commonwealth of Australia, containing authoritative Statistics for the period 1901-1915, and corrected statistics for the period 1788 to 1900. No. 9, 1916.	1 vol. 8vo. Melbourne, 1916. Presented
	12. Additions and Corrections to the Basic List of the Fishes of New Zealand. (Canterbury Museum Records, i, 1912.)		18885	COMMONWEALTH BUREAU OF METEOROLOGY. Australian Monthly Weather Report and Meteorological Abstract. Vol. II, 1911. Published with the Authority of the Minister of Home Affairs under the direction of H. A. Hunt, Commonwealth Meteorologist.	
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	14. Additions to the Fish Fauna of the Kermadec Islands. (Proc. New Zealand Inst., 1911.)	In 1 vol. 8vo. Presented		COMMONWEALTH OF AUSTRALIA. Historical Records of Australia. Series I. Governors' Despatches to and from England.	
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19029	ENGINEERING ASSOCIATION OF NEW SOUTH WALES. Minutes of Proceedings. Vol. xxx, 1914-1915. 1 vol. 8vo. Sydney, 1916.	Presented		TASMANIA.	
18954	GEOLOGICAL SURVEY OF NEW SOUTH WALES. Memoirs, Geology, No. 7. Geology and Mineral Resources of the Southern Coalfield: with maps and sections. Part I. The South Coastal Portion. By L. F. Harper. 1 vol. 4to and portfolio of maps and sections. Sydney, 1915.	Presented	18703	MINES, DEPARTMENT OF. Maps and Charts to accompany Geological Survey Bulletin, No. 10. 1 vol. 8vo. Hobart, 1911.	Presented
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