

1913.

LEGISLATIVE ASSEMBLY.  
NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30TH JUNE, 1913.)

[*In substitution of Paper laid upon Table on 12th August, 1913.*]

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

*Printed under No. 5 Report from Printing Committee, 18 September, 1913.*

TO HIS EXCELLENCY THE GOVERNOR,—

The Trustees of the Australian Museum have the honor to submit to your Excellency their Fifty-ninth Report, being for the year ended 30th June, 1913.

1. TRUSTEES.

We have to report with much sorrow the death, in September, 1912, of Dr. James C. Cox, who had been a Trustee for forty-seven years. He joined the Board of Trustees in 1865, was appointed Crown Trustee in succession to the late Rt. Hon. Sir Alfred Stephen, G.C.M.G., in 1890, and was elected President by the Trustees in 1892, to which position he was re-elected each year afterwards until his death.

It will be of interest to record the names of those who have held the office of Crown Trustee since the incorporation of the Museum under Trustees in 1853:—

- 1853–1856—Hon. Sir Henry W. Parker, Premier and Colonial Treasurer.
- 1856–1879—Hon. Sir Ed. Deas-Thomson, President of the Legislative Council.
- 1880–1889—Rt. Hon. Sir Alfred Stephen, Chief Justice and Lieut.-Governor.
- 1890–1912—Dr. James C. Cox, Senior Trustee at time of appointment.

In accordance with the Consolidated Act of Incorporation, the following additional Official Trustees have been appointed by His Excellency the Governor:—

- The Hon. Minister for Public Instruction.
- The Surveyor-General and Chief Surveyor.
- The Director-General of Public Works.
- The President of the Legislative Council.
- The Crown Solicitor.

Changes among the Elective Trustees have been:—

Mr. Henry Deane had leave of absence during a great part of the year on account of his frequent absences in connection with his duties on the Transcontinental Railway, and he resigned his seat in November, 1912. The Hon. F. E. Winchcombe, M.L.C., was elected to the vacant position in February, 1913. On account of the appointment of Mr. H. H. B. Bradley to be Crown Trustee another vacancy has occurred among the elective Trustees, and Jas. R. M. Robertson, Esq., M.D., C.M., has been nominated for the position.\*

Mr.

\* He was elected on the 4th July, 1913.

Mr. H. H. B. Bradley was elected President, in succession to the late Dr. J. C. Cox, for the remainder of the year 1912, and was re-elected for the year 1913. Although this office was held by the late Dr. Cox, and is now held by Mr. Bradley simultaneously with that of Crown Trustee the two are not dependent one on the other. The former is an annual election by the Trustees, the latter an appointment by the Governor.

Leave of absence was granted during part of the year to Surg.-Gen. W. D. C. Williams, C.B., and to Prof. J. T. Wilson, M.B., Ch.M. Prof. Wilson is absent on a visit to Europe, and the opportunity was taken to request him to represent the Trustees on various Scientific Congresses to be held in Europe and America, should opportunity offer.

#### ATTENDANCE OF THE TRUSTEES DURING 1912.

The following is a list of the Trustees, with records of their attendances at Board Meetings during the year 1912.

<i>Crown Trustee :</i>							Board Meetings.
J. C. Cox, Esq., M.D., F.L.S., C.M.Z.S.	...	...	...	...	...	...	5

<i>Official Trustees :</i>							
His Honor the Chief Justice	...	...	...	...	...	...	—
The Honorable the Colonial Secretary	...	...	...	...	...	...	—
The Honorable the Attorney-General	...	...	...	...	...	...	—
The Honorable the Colonial Treasurer	...	...	...	...	...	...	—
The Auditor-General (Mr. J. Vernon)	...	...	...	...	...	...	6
The President of the Medical Board (Sir P. S. Jones)	...	...	...	...	...	...	5

<i>Elective Trustees :</i>							
H. H. B. Bradley, Esq. (became Crown Trustee in October, 1912, in succession to late Dr. J. C. Cox).	...	...	...	...	...	...	10
Surg.-Gen. W. D. Campbell Williams, C.B., L.R.C.P., London,							
&c. (a)	...	...	...	...	...	...	1
Prof. W. A. Haswell, M.A., D.Sc., F.R.S.	...	...	...	...	...	...	3
Prof. T. W. Edgeworth David, B.A., F.G.S., F.R.S.	...	...	...	...	...	...	3
Prof. J. T. Wilson, M.B., Ch.M. (a)	...	...	...	...	...	...	5
T. Storie Dixson, Esq., M.B., Ch.M.	...	...	...	...	...	...	7
W. H. Hargreaves, Esq.	...	...	...	...	...	...	10
Lt. Col. Reuter E. Roth, Esq., D.S.O., M.R.C.S.	...	...	...	...	...	...	10
Eric Sinclair, Esq., M.D.	...	...	...	...	...	...	5
Col. W. L. Vernon	...	...	...	...	...	...	4
Col. Hon. Jas. Burns, M.L.C. (a)	...	...	...	...	...	...	4
Henry Deane, Esq., M.A., M.I.C.E. (Resigned in December, 1912)	...	...	...	...	...	...	1

During the year 1912 there were eleven ordinary meetings of the full Board of Trustees.

(a) Had leave of absence granted during the year.

#### 2. FINANCE.

The Museum is supported financially by the Government of New South Wales, partly by an endowment of £1,000 provided by the Act of Incorporation, and partly by Parliamentary appropriations, varying from year to year to meet requirements.

The income from all sources during the year under review amounted to :—

	£	s.	d.
Endowment	1,000	0	0
Appropriation	9,845	0	0
Public Works Fund for cases in new building	500	0	0
Sales of publications and sundries	75	6	7
Total	£11,420	6	7



The amount expended on salaries, allowance for Sunday duties, overtime on holidays, and night watching, was ... .. £ s. d.  
7,664 15 5

On acquisition of specimens, including purchases, freights, travelling, and collecting, the expenditure amounted to ... .. 595 18 10

For books, the expenditure was distributed as follows:—

	£	s.	d.
Zoological Works ... ..	118	3	11
Palaeontological Works ... ..	19	5	8
Ethnological Works ... ..	30	1	0
Geological Works ... ..	8	14	8
Voyages and Travels ... ..	39	9	1
General... ..	23	12	1
Exhibition Literature... ..	14	12	3
Continuations and Periodicals ... ..	164	7	5
Binding ... ..	51	18	2
Carriage ... ..	14	6	5
Total ... ..	484	11	2

The Catalogues and Publications during the year cost:—

"Records" ... ..	241	9	3
"Memoirs," Vol. IV ("Thetis" Expedition) ... ..	40	5	8
Miscellaneous printing and preparatory work ... ..	17	0	0
"Nest and Egg" Catalogue ... ..	187	8	5
Total... ..	486	3	4

For Exhibition Cases, a sum has been expended, including cases in new building, amounting to ... ..	929	13	3
For bottles, boxes, preservatives, insurance, &c. ... ..	154	14	3
For repairs to Roofs ... ..	249	2	7

The remainder of the Expenditure includes stores, uniforms, telephones, various small repairs, and other items; it amounts to ... ..	728	3	2
--	-----	---	---

The Total Expenditure for the year was ... £11,293 2 0

A copy of the Balance-sheet, duly audited, will be found in Appendix I.

### 3. STAFF.

The changes among the members of the staff were:—Mr. H. S. Grant, Assistant to the Taxidermist, was appointed to the new office of Collector, with the intention of sending him, as opportunity offers, on collecting expeditions. Mr. Henry Barnes, Articulator, died on 29th April, 1913, after a connection with the Museum in various capacities of thirty-four years. The vacancy was filled by the promotion of Mr. Chas. Clutton, Assistant, to the position. Applications were advertised for to fill the vacancy caused by the promotion, but up to 30th June no appointment had been made. Mr. A. Smith, Clerk, was promoted to be a Cadet, but afterwards resigned his connection with the Museum, and the vacancy so caused was filled by the appointment of Mr. Wilfrid Vaughan to be Library Clerk, and of Mr. James A. Trimble, one of the Attendants, who had been assisting in the office for some time, to be Clerk. Mr. E. Le G. Troughton was also promoted from Cadet to be a Junior Assistant.

As mentioned in last report, Mr. Chas. Hedley, Assistant Curator, was instructed to visit certain Museums in America during his leave of absence, and at the time of writing was still away on that leave. He has since returned and handed in a report of his visits, which has been printed, and forms, in the Museum Series, Miscellaneous Papers, No. VIII.



A List of the Museum Staff as at 30th June, 1913, is appended.

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, 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, Entomologist	— July, 1896	3 Sept., 1896
Charles Anderson, Mineralogist	22 " 1901	22 July, 1901
Allan R. McCulloch, Zoologist	1 Sept., 1901	1 " 1906
Wm. W. Thorpe, Ethnologist	9 Oct., 1899	1 " 1906
E. A. Briggs, Zoologist	1 June, 1912	1 June, 1912
T. H. Johnston, Hon. Zoologist	— " 1908	5 Mar., 1909
Edw. F. Hallmann, Hon. Zoologist	9 " 1909	1 April, 1912
Frank T. Clark, Accountant	1 Jan., 1896	1 Jan., 1896
Wm. A. Rainbow, Assistant Librarian	13 May, 1902	1 July, 1906
Jas. A. Trimble, Clerk	1 July, 1909	6 Sept., 1912
Wilfrid Vaughan, Library Clerk	June, 1913	June, 1913
Rex. W. Bretnall, Junior Assistant	11 Feb., 1907	1 July, 1911
Dene B. Fry, Junior Assistant	1 Jan., 1908	1 " 1911
Ellis Le G. Troughton, Junior Assistant	13 " 1908	1 Jan., 1913
Anthony Musgrave, Cadet	7 Feb., 1910	7 Feb., 1910
Roy Kinghorn, Zoologist's Clerk	1 Sept., 1907	1 Jan., 1911
Robert Grant, Taxidermist	— 1887	7 Aug., 1907
Henry Barnes, Articulator (died 29 April, 1913)	— 1878	11 Oct., 1897
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	5 Oct., 1909	1 Jan., 1913
Chas. Clutton, Articulator	25 April, 1904	1 May, 1913
Herbert Jackson, Assistant to Artificer	9 June, 1910	9 June, 1910
John Cronin, Chief Attendant	5 July, 1909	5 July, 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
R. J. Thorpe, do	14 May, 1908	1 July, 1908
J. H. Wright, do	13 " 1908	1 " 1908
John Flanagan, do	1 July, 1909	1 " 1909
D. Baxter, do	1 May, 1911	1 May, 1911
T. Rochford, do	1 " 1911	1 " 1911
T. A. Murphy, do	1 " 1911	1 " 1911
R. L. Carrick, do	12 June, 1911	12 June, 1911
Mrs. K. Fraser, do	1 April, 1889	1 April, 1889

#### 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 161,557, averaging 609, and on Sundays 60,726, averaging 1,176 per day, making a total of 222,283. 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, are admitted, and are given facilities for study and tuition.

These figures show a steady increase year by year, but the facilities offered for students and schools on Monday afternoons are not taken advantage of as fully as the Trustees hoped they would be. It is noticed, however, that a number of school children come on ordinary visiting days with their teachers, but then they cannot receive the special attention that may be given them on Mondays. Details of the attendances are given below.

#### ATTENDANCE OF VISITORS.

##### I.—SUMMARY OF PREVIOUS YEARS.

	Week-days.	Mondays.	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	101,928	220	43,874	146,022
1912	161,557	.....	60,726	222,283

II.

\* For 1878-79-80 only.



## II.—DURING THE YEAR 1912.

Month.	Week-days.			Mondays (studense)	Sundays.			Total.		
	Days.	Visitors.	Average.		Days.	Visitors.	Average.	No. of days	Visitors.	Average.
January .....	23	20,943	919	4	4	4,700	1,175	31	25,643	827
February .....	21	15,521	740	4	4	5,447	1,362	29	20,968	721
March .....	22	16,550	752	4	5	6,932	1,386	31	23,482	757
April .....	21	21,254	1,012	5	4	6,626	1,656	30	27,880	930
May .....	23	18,117	788	4	4	5,818	1,456	31	23,935	772
June .....	23	17,949	741	2	5	6,533	1,306	30	23,582	786
July .....	22	11,298	513	5	4	6,414	1,603	31	17,712	571
August .....	24	9,912	413	3	4	5,276	1,319	31	15,188	490
September .....	20	6,302	315	5	5	4,402	880	30	10,704	357
October .....	24	10,747	455	3	4	2,716	679	31	13,463	434
November .....	22	6,460	293	4	4	2,903	725	30	9,363	312
December .....	21	7,404	370	5	5	2,959	591	31	10,363	332
Total .....	263	161,557	609	48	52	60,726	1,167	366	222,283	607

## 5. LECTURES.

The Lectures on Thursday evenings were regularly given during the winter months of the year. The attendance at times overtaxed the seating capacity of the Lecture Hall, and it is possible that ere long the lectures will be given more frequently than once a month. The Syllabus during 1912-1913 was:—

July 18—"The Struggle for Existence," Mr. W. J. Rainbow.

Aug. 15—"Meteorites," Dr. C. Anderson.

Sept. 19—"Some Parasitic Plants: Entomogenous Fungi," Mr. W. J. Rainbow.

Oct. 17—"Some Evidences of Evolution," Mr. E. F. Hallmann.

Nov. 21—"Rock Crystal and its Allies: their Structure and Uses," Dr. C. Anderson.

April 10—"The Sword," Lieut.-Colonel Reuter E. Roth, D.S.O., M.R.C.S.

May 8—"The Story of a Coconut," Mr. C. Hedley.

June 12—"Foods, Medicines, and Charms of Savage Man," Mr. W. J. Rainbow.

A summary of these lectures is given in the following paragraphs:—

## 1912 Course.

In dealing with the subject of "The Struggle for Existence, or Natural Selection," on Thursday, 18th July, Mr. W. J. Rainbow said, that it is necessary to consider two main factors, viz., Colouration and Formation, and to divide these into two classes.

Thus, for convenience, we find there are:—(I) Colouration: (1) protective colours; (2) warning colours (*a*) of creatures specially protected, (*b*) of defenceless creatures mimicking *a*; (3) alluring colours. (II) Formation: (1) protective forms; (2) aggressive forms.

In life, and in the midst of natural surroundings, the colours of animals serve as protection or warning; protective colouration is exceedingly prevalent in nature. The white of Arctic animals, the sandy colours of the inhabitants of the deserts, the spots of the leopard, and the stripes of the tiger and zebra, are all highly protective, and therefore in each case beneficial to the individual.

Amongst birds, reptiles, and insects the same phenomena prevail. In each of these groups many of the species are protected by various tints of greens, greys, browns, and yellows, and so closely do they harmonise with their surroundings that frequently, unless detected in actual motion, it is not easy to distinguish them.

In illustration of protective colouration, a number of insects that simulate green and dead leaves were mentioned. These insects include grasshoppers, locusts, butterflies, and moths.

Insects afford, as usual, the most numerous examples of "warning colours," which are always bright and distinct, and the animals endowed with them are bold and leisurely in their movements. They have little to fear, because, being possessed of objectionable characters, such as offensive odours or pungent acrid juices, they are not likely to fall as prey. Warning colours are not only protective to the animals possessing them, but a clear intimation to those of carnivorous habits that such creatures are dangerous and had better be left alone.

Among butterflies there are several families, comprising hundreds of species, and inhabiting the warmer portions of the globe, which are not only bright, but are usually large. Yet, despite these prominent features, they are almost totally immune from attack. A common local example is that of the "Wanderer" butterfly, a species that has followed the milkweed (known to botanists as *Asclepsia*) all over the world.



Uneatable insects are frequently mimicked by those of an edible nature. Edible butterflies mimic inedible forms; edible moths mimic inedible butterflies; some soft-bodied beetles simulate in general appearance hard-bodied beetles, and so on. Then again some potently armed and aggressive insects, such as wasps, hornets, and ants have many imitators. Of these, the wasps and hornets are mimicked by beetles; whilst ants are mimicked by beetles and spiders. Those species that are mimicked are in some way disagreeable, or even dangerous, to enemies of their class, and this being so, the only conclusion that can satisfactorily explain the phenomena of mimicry is that natural selection has produced the modifications, and is responsible for the results. An illustration of "alluring colouration" is an Indian mantis that attracts insects upon which it feeds, by its flower-like shape and pink colour, the supposed petals being the flattened legs of the insect. In illustration of "protective formation" stick caterpillars, excreta-mimicking spiders, spiny spiders, and hairy caterpillars were referred to.

"Terrifying mimicry" next received attention. Another remarkable method of seeking protection adopted by some caterpillars is malingering. Those that have acquired this habit pretend they have been stung by a wasp by displaying, when such an enemy is hovering about, discoloured patches on parts of their bodies.

Summing up the facts, the lecturer submitted the following conclusions:—

1. Colour, as such, is of no value to an animal living in a state of nature, whether vertebrate or invertebrate, unless it is of use to it, either as a means of protection or in assisting it to capture prey.
2. All colours were originally non-significant, but during the course of many ages both colour and form have been modified, and are now of the highest possible value.
3. Colour and form are not absolutely stationary, but, just as in generations past animals and plants were subject to variations, even so there are now being perfected modifications of the highest functional importance; but these changes are, of necessity, gradual.
4. So long as a certain colour, tint, or form is of value to an animal, so long will it or they be retained; but the instant they become useless or harmful, other modifications will begin to assert themselves, and the latter, though of necessity slow, are more rapid among invertebrate forms.

In his lecture on "Meteorites" delivered on Thursday, 15th August, Dr. Chas. Anderson explained that the earth, in its passage through space, annually encounters millions of cosmic bodies. These bodies are mostly of small size, and become dissipated in the upper atmosphere, but occasionally they survive and reach the earth as meteorites. Meteorites were then described, their chemical and physical properties outlined, and a short summary of the growth of our knowledge of meteorites given. Speaking of the origin and the original home of meteorites, Dr. Anderson stated that we have no certain knowledge, but that, reasoning from circumstantial evidence, we are led to believe that shooting stars, comets, and meteorites are closely connected, if not identical.

In the next lecture, 19th September, "Some Parasitic Plants: Entomogenous Fungi," by Mr W. J. Rainbow, were dealt with.

Entomogenous fungi are a group of parasitic cryptogamic plants which live upon, and at the expense of, various insects. The subject was one that was interesting both to the botanist and entomologist, since it dealt with a group of cryptogamic plants, parasitic on insects. "Vegetable caterpillars," so-called, were, of course, the most familiar objects of this side of nature-study, if we except "foul brood" the dreaded scourge of the beehive. Numerous insects are, however, attacked by entomogenous fungi, such as beetles, moths, butterflies, caterpillars, locusts, grasshoppers, wasps, ants, bugs, cicadas, flies, and spiders. In the Murrumbidgee form, *Cordyceps taylori* the insect in some specimens is six inches long, and the plant about the same. But the latter differs from the New Zealand form, *C. robertsii*, and an Australian form, *C. selkirkii*; so much so, that it is impossible to mistake it. The two latter have a bulrush-like process proceeding from the back of the neck, whilst the first-named has a thick stem formed by the close union of several stalks, which, uniting at the top, are surrounded by a fringe, and when expanded this assumes the appearance of a full-blown flower upon the surface of the soil. This fringe is of a brown colour, and of a velvety texture. Another is *C. gunni*, which is generally found under wattles or gums, immediately after the first autumnal rains (about March). The fungus, with one to five stems, but generally with one only, usually shoots from the nape of the neck and tail. The chrysalis is found, too, with one stem from the upper part, and sometimes also encircled with rings of fungus. Wonderful stories were invented and related as to the origin and development of the "Vegetable caterpillar."

Speaking



Speaking of the New Zealand species (*S. robertsii*), a writer in the "Scientific American" said:—"It is certain that the caterpillar and fungus were made for each other, as *Hepialis virescens* (the caterpillar) is never found without *Sph. ia (Cordyceps) robertsii* growing out of it, and *Spharia robertsii* is never found without this caterpillar with it." Truly a marvellous conclusion; for, in the first place, the caterpillar referred to is that of a wood-boring species, and as such is immune from the attacks of *Cordyceps*, for the simple reason that the latter cannot develop and grow in the burrow made by a caterpillar in the trunk of a tree, that being the place where *Hepialis* feeds, grows, and pupates; in the second place those caterpillars that are affected burrow in the soil. This particular *Cordyceps* needs a caterpillar upon which to develop, but when it appears upon such a host it kills it. Another ridiculous story in respect of *C. robertsii* was that the caterpillar swallowed the seeds of the rata-tree (*Metrosideros robusta*); that they then germinate, kill the caterpillar, and grow in the ordinary way.

A Chinese species (*C. sinensis*) was used for medicinal purposes, but only in the Emperor's palace, as a strengthening and renovating substance. A duck was stuffed with five drachms of the fungus, and the bird roasted by a slow fire. The virtue of the fungus was supposed to pass into the bird, the flesh of which must be eaten twice daily for eight or ten days. In New Zealand the *Cordyceps* was, in times gone by, used by the Maoris as a pigment in tattooing.

Entomogenous fungi have not so far been found upon the larvæ or pupæ of hawk-moths, notwithstanding the fact that these insects pupate in the soil. These fungi never shrivel, or in any way distort the bodies of their victims—not even the soft-bodied caterpillars: they are always of natural proportions, with every characteristic wrinkle and fold of the skin preserved.

On 17th October, in "Some Evidences of Evolution," Mr. E. F. Hallmann confined his remarks to the evolution of living things, particularly of animals, a phase which in the present day is known as "organic evolution." The lecturer traced the evolution of animals from the very earliest periods in history to the present day. He paid special attention to anatomy and geology, the last-mentioned being of infinite assistance in determining the age at which the animals frequented the earth, as indicated by the fossil remains in sedimentary rocks. He mentioned the features responsible for the evolution, laying stress upon geographical distribution; and, in addition, dealt briefly with palæontology and embryology. To lend additional interest to his remarks, the lecturer had numerous skeletons on view, which he minutely explained.

The lecture on 21st November, was entitled "Rock Crystal and its Allies: their Structure and Uses," by Dr. Chas. Anderson. The minerals belonging to the quartz group are exceedingly common, and very diverse in form and appearance. Chemically, they are composed of silica, and within the group we find minerals clear and colourless as glass; others opaque and almost as black as jet, and still others which are red, orange, green, violet, or blue. There is crystallised quartz, comprising the transparent colourless variety known as rock crystal, the violet-coloured amethyst, smoky quartz or cairngorm, rose quartz, cat's eye, and tiger's eye quartz, &c. Then the compact varieties: jasper, chrysoprase, and flint, which are aggregates of quartz crystals. The crypto-crystalline varieties, in which the structure is fibrous and minutely or obscurely crystalline, comprising chalcedony, agate, cornelian, &c. The fourth group consists of varieties in which silica is combined with a certain amount of water, and in which there is no trace of crystalline structure, such as opal and siliceous sinter, the siliceous deposit from hot springs.

Although not strictly a gem-stone, quartz has been extensively and universally used for ornamental purposes, and in all ages. In the time of the Roman Emperors, bowls, vases, and goblets were carved out of rock crystal. Still earlier it was used by the Egyptians and Assyrians for the making of beads, seals, necklaces, &c. Now it has various technical applications, as in the manufacture of lenses for spectacles and telescopes of standard weights, where great accuracy is required, and of apparatus used in the chemical laboratory.

The most important of the crypto-crystalline varieties is agate, than which no stone is applied to so many diverse purposes. It is used for making various articles of adornment, as buttons, sleeve-links, pendants, hair-pins, for stick and umbrella handles, children's marbles, match-boxes, penholders, chessmen, candlesticks, &c.

The cutting and polishing of agate, which is essentially a German industry, is carried on mainly at Oberstein and Idar.

Opal is the most important of the hydrous silicas. Common opal showing no fire or play of colours is widely diffused, but the beautiful precious, or noble, is comparatively rare. Until recent years Hungary was the only source of opal; now New South Wales and Queensland supply the world's demand, but it has also been found to a limited extent in Mexico and Central America.



This course of lectures was opened on 10th April, by Lieutenant-Colonel Reuter E. Roth, D.S.O., M.R.C.S., who lectured on "The Sword." The History of the Sword is the History of Humanity, and during the Knightly Ages the good Sword of the Paladin and the Chevalier embodied a new faith—the Religion of Honor.

Many of our present-day courtesies are the lingering embers of early instincts. Primitive man knew that his very existence depended on the strength and number of his tribe. It was therefore his first care to protect the women and children. This instinct to give way to women, children, and the weak still exists amongst men.

The lower animals are born armed, whilst man has to weapon himself. His teeth and nails are not strong enough. His first weapons were probably stones used as missiles. To use his weapons correctly he stood up on his feet, whilst the weak and young would crouch for shelter. This may have given rise to the instinct of giving up one's seat to the weak and old.

The history of the sword can be divided into four periods: the period of the sword, the rapier, the transition period, and the age of the sabre and the small sword.

The earliest swords were made of wood and bone, teeth of animals, stone, copper, bronze, iron, and, last of all, steel. The earlier swords had a plain cross-guard; for this reason they were looked upon as the emblem of the crucifix, and were kissed before use. The "recover" reminds us of this act. In saluting with the sword, we have the movements of waiving a kiss, as was done to one's ladylove before entering upon the jousts. When the soldier lay dying, the reversed sword was brought to his lips. This is probably the origin of the "reversed" arms at military funerals.

The sword being carried on the left side, the right arm was offered to the "lady fair," a custom which still holds amongst British people.

In walking along the narrow streets in former ages one kept to the right, to leave the left hand holding the buckler free for defence and the sword-arm free for offence. Mounted, the knight kept to the left or near side, so that in meeting it would be sword-arm to sword-arm, and there would be less risk of hitting the horse's head. These rules of the road still remain.

Every old sword, besides its beauty and picturesqueness, represents an amount of serious thought and ingenuity which in our days would be considered quite wasted on such an object. But this is merely so because the age of carrying the sword belongs to history.

The second lecture of this course was delivered on 8th May, by Mr. Charles Hedley. The subject was "The Story of a Coconut." Its admirers claim for the coconut that it has more and varied uses than any other plant in the world. It gives not only milk, but drink, clothes, weapons, and even houses. The milk possesses a peculiar flavour of its own, but it has neither the appearance of milk nor the taste; in fact, it resembles soda-water, and the taste is not unlike ginger-beer. In the greater portion of the Coral Islands water is scarce, and it is not surprising, therefore, that the natives look upon the coconut milk as their staple liquid refreshment. The juice is drunk only from the green fruit.

Inside the coconut shell is the kernel, and this is the most important part of the fruit. It is largely used as a food, and when baked makes a very nice dish. The method usually employed to cook this food, is to first scrape the kernel into flakes, and to then bake them.

The oil, which is obtained from the coconut palm, gives to it its great commercial value, and was formerly sent to Sydney in bulk, but now the kernel is dried and the product, which is known as copra, is shipped in that fashion. Copra when it goes to the mill is crushed and ground, and then put under a hydraulic ram, which squeezes out the oil, and the resultant article is known as oil-cake, used largely as a food for cattle. Coconut oil is sold largely in Germany to the poorer classes, as an excellent substitute for butter. In taste and appearance it is not unlike the genuine article, and is considered to be very wholesome. In addition to the above, copra is used largely in the manufacture of soaps.

Outside and surrounding the kernel is the shell, which is only a quarter the thickness of the kernel. It is hard, black and waterproof, and largely employed in the manufacture of drinking vessels. The kernel is got rid of without breaking open the shell by knocking holes in the "monkey's eyes," the only soft portions of the shell, and then by soaking the latter in water. After the lapse of a few weeks the kernel would rot and could easily be got out. The "monkey eyes," the peculiar markings on the coconut, are left by nature for the palm to put out its root and stalk.

Several



Several coconuts were exhibited, showing how the husk—the outside covering—had grown to a point. The virtue of this was that when the nut was dropped from a height, the fruit would be made to fall on this point, and would not suffer in any way. When the husk is soaked in water, the fibres separate and become a mass of threads, which are then made by the natives into ropes of different patterns, and are plaited for various uses, with special names for them. White sailors use “coir” made from the husk as mooring ropes. Boxing gloves and sandals are also made from the coconut husk. A complete suit of armour is made by the Gilbert Islanders from the same husk, and is used by them when they decide to settle personal differences by the aid of a long spear made from the stem of the coconut palm, with shark's teeth lashed to the blade.

The leaves are almost indispensable to the natives. Baskets for carrying their food are often made from the leaves, and torches as an aid to fishing are manufactured from the same material. A large number of the native huts are formed of the leaves.

The tree is also largely used. It is an excellent wood, and can be highly finished. The palm has a great spread of leaves, and will catch almost as much water as a house. This fact is not lost sight of by the natives, who divert the course of the water so that it trickles into clam shells, held ready for its reception. Native dresses are manufactured from the leaves of the coconut palm.

The origin of the coconut palm has been the source of a great deal of argument. Many say it is a native of South America. There is some ground for this contention, as the seventeen other trees that have the same surname as the coconut are natives of South America. On the other hand there are records in Ceylon literature that it grew in that country even 1,000 years ago. It is probable, however, that the Polynesians, whose feats of navigation are well known, might have crossed to South America, and so secured specimens of the plant.

On 12th June, Mr. W. J. Rainbow lectured on “Foods, Medicines, and Charms of Savage Man,” from the entomological side of the subject. The word “insect” would, however, be applied in its widest form, so as to include scorpions, spiders, and centipedes, which, strictly speaking, were not insects at all. The natives of New Caledonia collected and ate numbers of orb-weaving spiders, and one species had been named *Araneus edulis* in consequence. In respect of civilised man, we had it on the authority of the learned Reaumer, and Latreille, that educated people of their acquaintance had eaten spiders. Reaumer had recorded the fact that a young lady of his acquaintance never saw a spider in her garden that she did not eat there and then; while according to Latreille, the famous French astronomer of his day, La Lande, used to spread them on his bread like butter, and eat them with relish. The famous Anna Maria Shurmann was also very fond of eating spiders. Wood-boring grubs or beetles and moths enter largely into the dietary of our Australian blacks, being sometimes cooked and sometimes eaten raw, and here again, civilised man has also utilised these creatures as food. In Ancient Rome, epicures were very fond of roast or baked larvae, and these delicacies always found a place upon their tables, both in their homes and at their feasts. There seems to be little, if anything at all, to be said against these insects as food, save prejudice, because they live in clean surroundings, and subsist upon clean food. The question in respect of any species of animal, when it is to be applied for food, is whether it contains those chemical properties that are essential in foods, and in what proportions. These larvae do not seem to have been so treated, but they nevertheless appear to be very nutritious. Other insects eaten by savage and civilised man are locusts and grasshoppers. In Australia our aborigines eat them, and this remark applies to natives of New Caledonia and Africa, as well as peasants in the Crimea. Ants, bees (as well as their honey), wasps, white ants, moths, and flies also contribute to the food supply of various races of savages. Among civilised people, spiders and scorpions have been used as medicines, and several quaint practices were enumerated. Northern Queensland blacks use the green tree-ant, and the caterpillar and pupa of the butterfly, *Liphyra brassolis*, found in the nest of the latter, as a medicine when anyone is unwell. In Brazil and Smyrna ants are used for the purpose of closing wounds. In Smyrna, this practice is followed by the barber surgeons. The wound is washed and cleaned, the lips brought together by the fingers of one hand, whilst the other, with the aid of a pair of forceps, applies a living ant, whereupon the insect buries its jaws in the wound, when the head is immediately cut off. In this way a dozen or more ant heads may be applied, and these are allowed to remain until the wound is sufficiently healed to allow of them being withdrawn.

The ornaments of savage man, in which insects or parts of insects were used in devices for personal adornment, were also described, as well as devices for charms toward evil spirits, and to keep mosquitoes away.

#### 6. ACQUISITION.

The collections have been maintained in good order, but have not been added to so largely as in former years, partly from the want of exhibition space and partly from absence of storage accommodation.



A collector was appointed as foreshadowed in last report, but the Estimates were not passed by Parliament until December, 1912, and the appointment consequently was not made until the half year had elapsed. The remainder of the year was occupied in taxidermal work and collecting in the neighbourhood of Sydney. During the year 1913-14 he will go further afield.\*

Among the most noticeable acquisitions during the past year were :—

Valuable Collections of Insects, including some co-types, by purchase.

Very interesting Minerals from various localities in New South Wales, partly by exchange and partly purchased.

Collection of Birds made by the late Mr. Geo. Masters, and another Collection made by a resident in the interior; both purchased.

Two North American Totem Poles from British Columbia, North America, by purchase.

(These valuable additions have been placed in Exhibition cases, one on each side of the Public Entrance. Accompanying this Report are photographs of these poles.)

Mediterranean Fishes, by exchange.

Meteorites and Minerals from North America, by exchange.

The Collections of Shells of the late President, Dr. Jas. C. Cox, partly by bequest and partly a donation by Dr. Arthur Cox, forming a very valuable addition to the Conchological Section.

The following return shows the number of specimens acquired during the year in each Section, and whether by Donation or otherwise.

#### RETURN of Specimens acquired during 1912.

Registration mark.	Department.	No. of Specimens.				Total.
		Donation.	Exchange.	Purchase.	Collection.	
	Vertebrata—					
M.	Mammalia .....	52	1	3	1	57
O.	Aves .....	3,402	8	1,180	16	4,606
R.	Reptilia .....	385	92	.....	75	552
I.	Pisces .....	262	183	1	139	585
S.	Skeletons .....	33	.....	.....	.....	33
	Invertebrata—					
C.	Mollusca .....	1,196	461	3	.....	1,660
K.	Insects and Arachnida .....	1,608	41	541	33	2,223
P.	Crustacea .....	65	100	.....	269	434
J.	Echinodermata .....	9	.....	.....	12	21
U.	Polyzoa .....	.....	8	.....	.....	8
W.	Vermes .....	33	.....	.....	5	38
Y.	Hydroids .....	.....	.....	.....	201	201
Z.	Sponges and Foraminifera .....	31	.....	.....	62	93
G.	Other Invertebrata .....	2	.....	.....	153	155
F.	Fossils .....	68	3	.....	10	81
D.	Minerals .....	101	255	45	.....	401
	Ethnological, &c.—					
E.	Ethnological .....	1,077	524	401	14	2,016
H.	Historical .....	1	.....	.....	.....	1
N.	Numismatical .....	10	.....	9	.....	19
	Miscellaneous—					
A.M.	Micro. Sections .....	.....	.....	.....	.....	18
L.	Casts .....	3	5	.....	10	6
T.	Moulds .....	.....	.....	6	.....	42
V.	Photo-negatives .....	.....	.....	42	.....	151
V.V.	Lantern Slides .....	.....	.....	151	.....	17
B.	Photographs .....	16	1	.....	.....	.....
	Total .....	8,354	1,682	2,382	1,000	13,418

#### 7. BUILDINGS.

The buildings have been maintained in good order. A few minor repairs have been carried out by the Trustees, or by the Department of Public Works. The renewals and repairs to roofs and gutters referred to in last year's report have been satisfactorily effected, and no further trouble has arisen from that source.

In regard to the further extension of the Museum, a deputation of the Trustees waited on the Hon. the Minister for Public Instruction, and in his unavoidable absence was received by the Under Secretary, to urge the provision of funds to commence this necessary and urgent work. The Museum is now so crowded that extension is urgent. The Library has over-run its bounds, and books are placed in corridors, workrooms, below-stairs rooms, and other unsuitable places; the exhibition space is full, and in places overcrowded, and the store-rooms for duplicate and unexhibited specimens are so crowded that space is not available to accommodate further specimens; in fact it has been found necessary to decline the acquisition of desirable collections for want of space to properly care for them.

8.

\* Since the date of this Report, he has been sent to the Northern District.



## 8. EXHIBITION CASES AND ARRANGEMENT OF SPECIMENS.

During the year 1912-13 work under this heading was more of a completory than an initiatory nature, owing to the fact that want of space forbade any marked advance in the latter direction.

Glazed floor cases in the Main Hall were provided for the Indian and Sumatran Rhinoceri, and the Bison. At the north end of this hall there existed for many years a large table on which were exposed a series of mounted seals. This was abolished, and the animals provided with two large glazed floor cases separating them into "Eared" and "Earless" Seals. The acquisition of a fine Dugong in the flesh afforded an opportunity of displaying the animal correctly; this also was provided with a separate floor case.

There yet remains much to be done in encasing the larger animals in separate group cases. For instance, the Curator had projected a case for all the Bears, of which there are several very fine examples, and another for Foreign Seals, but the exhaustion of funds put a stop to this; at the same time the space is there awaiting these cases. Should funds be available it will be obligatory to similarly encase the larger Reptilia, such as the Crocodiles and Chelonians, now openly exposed in the centre of the Upper Main Hall.

In the Report for 1911-12 reference was made to the completion of the 4th Room of the South Wing, containing the Ethnological objects from the Bismarck Archipelago—with the exception of certain floor and interpillar cases. These are now erected and filled, so completing the room in question; the whole of the necessary printed labels have also been supplied. The Trustees again desire to call attention to the last paragraph but one under the heading "Exhibition Cases and Arrangement of Specimens" in their Report for 1911-12 (p. 6), wherein they refer to the fact that "no further progress at all can be made in displaying their rich stores of Ethnology from Pacific Islands" until a substantial addition is made to the Museum building.

The Trustees would earnestly commend to notice the two following axioms, penned by one of the greatest of Museum administrators, the late Dr. G. Brown Goode, M.A., of the Smithsonian Institution, Washington.

1. "A museum, to be useful and reputable, must be constantly engaged in aggressive work, either in education or investigation, or in both."
2. "A Finished Museum is a Dead Museum, and a Dead Museum is a Useless Museum."

## 9. PUBLICATIONS.

The issue of the Museum "Records" was confused and delayed by an unfortunate fire at the Printer's, but, notwithstanding, a number of papers have been published; these are:—

- "Records of the Australian Museum," Vol. VIII, No. 4, containing, Australian Tribal Names, with their Synonyms. By W. W. Thorpe. Title Page and Index to Vol. VIII.
- "Records of the Australian Museum," Vol. IX, No. 3, containing Studies in Australian Crustacea, No. 3. By A. R. McCulloch. Studies in Australian Fishes, No. 3. By A. R. McCulloch.

(The Index to Vol. IX is in preparation and will shortly be published, completing the volume.)

- "Records of the Australian Museum," Vol. X, Nos. 1, 2, 3, 4, 5, containing—

- No. 1. Arachnida from the Solomon Islands. By W. J. Rainbow.
- No. 2. On a Varanus and a Frog from Burnett River, Queensland, and a Revision of the Variations in *Limnodynastes dorsalis*, Gray. By Dene B. Fry.
- No. 3. A very remarkable species of Spongophyllum from the Upper Silurian Rocks of New South Wales. By R. Etheridge, Jun.
- No. 4. On the Early History of the Australian Cassowary (*Casuarius australis*, Wall). By Alfred J. North.
- No. 5. Description and Analyses of the Binda Meteorite, by C. Anderson and J. C. H. Mingaye; and a Catalogue and Bibliography of Australian Meteorites, by C. Anderson.
- "Australian Museum Memoir, IV." Scientific Results of the Trawling Expedition of H.M.C.S. "Thetis" off the Coast of New South Wales, Part 17, containing The Tunicata. By W. A. Herdman and Wm. Riddell.

(The Index to the "Thetis" publications is in preparation, and will shortly be issued, completing the volume.)

Special



Special Catalogue, "Nests and Eggs of Birds," by A. J. North, Vol. III, part 4, and Vol. IV, parts 1 and 2.

Miscellaneous Papers, No. VIII, "Report on Museum Administration in the United States," by Chas. Hedley. This is a report issued as a result of Mr. Hedley's visit to America, as referred to in paragraph 3. It is not intended for general distribution, but is primarily for the information of the Trustees and Officers of the Museum.

Miscellaneous Papers No. IX. Rules to be observed in Writing Papers for the "Records" or "Memoirs."

A List of the Museum Publications to date is as follows:—

*Publications of the Australian Museum.*

I.—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 Collection of 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; 1894.
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.
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. Paleiethyan 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.

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, 1911-1913. Vol. IV, in preparation.

II.—Monographs.

1. "Australian Lepidoptera and their Transformations," by the late A. W. Scott, with Illustrations by his daughters, Mrs. Morgan and Mrs. Forde. Edited and revised by Mrs. Forde and A. S. Olliff. Vol. II.

III.—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. 1889.
3. The Atoll of Funafuti, Ellice Group: Its Zoology, Botany, and General Structure, based on Collections made by Mr. 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, 1898-1913.



## IV.—Guides.

1. Guide to the Australian Fossil Remains in the Australian Museum. 1870.
2. Guide to the Contents of the Australian Museum. 1883.
3. Guide to the Contents of the Australian Museum. 1890.

## V.—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, F.L.S. 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 Chas. Anderson, D.Sc., M.A., with notes by R. Etheridge, Curator. 1912.
8. Report on Museum Administration in the United States, by Charles Hedley. 1913.
9. Rules to be observed in writing papers for the "Records" and "Memoirs." Revised edition, 1912.

## VI.—Records.

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

Vol. V.—1890-91.      Vol. II.—1892-96.      Vol. III.—1897-1900.      Vol. IV.—1901-1903.  
 Vol. V.—1903-1906.      Vol. VI.—1906-1908.      Vol. VII.—1908-1910.      Vol. VIII.—1912-1913.  
 Vol. IX.—1912-1913.      Vol. X. in course of publication.

## 10. LIBRARY.

The Library continues to be added to as the needs of the Museum require, but the congestion caused by want of adequate space for shelving the books militates very much against its efficiency.

The additions during the year, not counting unbound periodicals and pamphlets, were 453 volumes.

The expenditure has been £484 11s. 2d.

A list of the additions to the Library will be found at the end of this report as Appendix II.

## 11. APPENDICES.

The following appendices are attached to this report, viz.:—

I. Statement of Receipts and Expenditure.

II. Catalogue of Additions to the Library.

The Common Seal of the Museum was hereunto fixed, by order of the Board, this twelfth day of August, 1913.

H. H. B. BRADLEY,  
 President.

S. SINCLAIR,  
 Secretary.



## APPENDIX I.

## STATEMENT OF RECEIPTS AND EXPENDITURE FOR THE YEAR 1912-13.

	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.
Balance from last year.....				479	15	9	Salaries—						
Statutory Endowment .....				1,000	0	0	Curator .....	750	0	0			
Parliamentary Appropriation—							Assistant Curator .....	400	0	0			
Salaries .....	7,087	0	0				Secretary .....	400	0	0			
Additional Endowment .....	1,500	0	0				Scientific Staff .....	1,661	10	1			
Contingencies .....	1,008	17	5				Office Staff .....	585	5	7			
Amount retained by Treasury for repairs to roofs, and as per contra .....	249	2	7				Junior Assistants and Cadets .....	490	13	4			
				9,845	0	0	Mechanics .....	1,338	6	8			
Public Works Fund, Advances for erection of Exhibition Cases ..	500	0	0				Attendants .....	1,454	10	0			
Sales of Publications—							Refund to Treasury of Unexpended Balance .....				7,080	5	8
Nest and Egg Catalogue .....	46	14	9				Contingencies—						
Do do Coloured plates .....	8	16	0				Opening Museum on Sunday and Holidays .....	286	4	9			
Museum "Records," "Memoirs," &c. ....				54	10	9	Police, for Night Watching .....	397	5	0			
Interest—							Repairs to Roof and Gutters by Department of Public Works .....	249	2	7			
From Deposits in Savings Banks ...	3	10	0				Exhibition Cases in New Building ..				932	12	4
Do do do do .....	2	4	5				Maintenances—				494	1	0
Miscellaneous—							Purchase of specimens .....	424	15	4			
Fines and sundries .....				3	10	1	Books, Periodicals, and binding .....	469	18	11			
Suspense Account—							Exhibition cases .....	435	12	3			
Repayments .....				40	19	0	Publications, Catalogues, &c. ....	298	14	11			
							Preservation of specimens .....	154	14	3			
							Working Expenses—				1,783	15	8
							Stores, stationery, tools, &c. ....	302	12	4			
							Furniture, repairs, &c. ....	237	1	5			
							Lectures and Sundries .....	253	18	7			
							Nest and Egg Catalogue—towards cost of publication .....				793	12	4
							Sales of Publications—				187	8	5
							Repaid to Treasury .....	2	2	2			
							Repaid to Bookseller .....	2	18	2			
							Exhibition Account—Purchase of books .....				5	0	4
							Suspense Account—Payments .....				14	12	3
							Balance .....				46	7	1
											11,344	1	4
											596	11	11
											£ 11,941	1	4

Examined and found correct.

2nd August, 1913.

P. W. SMITH,

Jnr. Inspector of Public Accounts.

## APPENDIX II.

## ADDITIONS TO THE LIBRARY.

Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
PART I.—AUTHORS.			17434	BATES (Henry Walter). The Naturalist. On the River Amazon. A record of Adventures, Habits of Animals, Sketches of Brazilian and Indian Life, and Aspects of Nature under the Equator, during Eleven years of Travel.	
17496	ALCOCK (A.). Entomology for Medical Officers. 1 vol. 8vo. London, 1911.	Purchased		With a Memoir of the Author by Edward Clodd. 1 vol. 8vo. London, 1892.	Purchased
17143	ASHDOWN (Charles Henry). British and Foreign Arms and Armour, by . . . . . illustrated with 450 engravings in the Text and 42 Plates from actual examples, missals, illuminated MSS., brasses, effigies, &c., and from original research in the British Museum, the Tower of London, Wallace Collection, Rotunda at Woolwich, many private collections, &c.			BREASTED (James Hy.). Ancient Records of Egypt. Historical documents from the earliest times to the Persian Conquest, collected, edited, translated with commentary by . . . . .	
17445	AUERBACH (M.). Die Cnidosporidien (Myxosporidien, Actinomyxidien, Microsporidien). 1 vol. 8vo. Leipzig, 1910.	Purchased	17366	Vol. I. First to seventeenth dynasties.	
17101	BANFIELD (E. J.). My Tropic Isle. 1 vol. 8vo. London, 1911.	Purchased	17367	II. Eighteenth dynasty.	
			17368	III. Nineteenth dynasty.	
			17369	IV. Twentieth to twenty-sixth dynasties.	
			17370	V. Indices.	
				5 vols. 8vo. Chicago, 1906-1907.	Purchased



No. Reg.	Books.	How acquired.	Reg. No.	Books.	How acquired.
17161	BRENDLER (Wolfgang). Mineralien-Sammlungen. Ein Hand- und Hilfsbuch für Anlage und Instandhaltung Mineralogischer Sammlungen. II. Teil. 1 vol. Svo. Leipzig, 1912. Purchased		17162	CUNNINGHAM (J. T.). (Editor). Reptiles, Amphibia, Fishes and Lower Chordata, by Richard Lydekker, J. T. Cunningham, G. A. Boulenger, and J. Arthur Thomson. Edited by J. T. Cunningham. (Animal Life, an evolutionary Natural History. General editor: W. P. Pyecraft.) Section I. Reptiles, by Richard Lydekker. II. Amphibia, by J. T. Cunningham and G. A. Boulenger. III. Fishes, by J. T. Cunningham. IV. Cyclostomata or Marsipobranchs, by J. Arthur Thomson. V. The Lancelets, Cephalochorda, by J. Arthur Thomson. VI. Tunicata, by J. Arthur Thomson. VII. Hemichorda, by J. Arthur Thomson. 1 vol. Svo. London, 1912. Purchased	
17351	BRUCE (Adam Todd). Observations on the Embryology of Insects and Arachnids. A Memorial Volume. (The Scientific Work of A. T. Bruce. A sketch by W. K. Brooks.) 1 vol. 4to. Baltimore, 1887. Purchased		17321	DAVID (T. W. Edgeworth). (Editor). New South Wales, Historical, Physiographical, and Economic. By A. W. Jose, T. Griffith Taylor, and W. G. Woolnough. Edited by T. W. Edgeworth David. 1 vol. Svo. Melbourne, 1912. Purchased	
17365	BUDGE (E. A. Wallis). The Mummy. Chapters on Egyptian funeral archaeology. 2nd edition. 1 vol. Svo. Cambridge, 1894. Purchased		17436	DENDY (Arthur). Outlines of Evolutionary Biology. 1 vol. Svo. London, 1912. Purchased	
17099	CALMAN (W. T.). The Life of Crustacea. 1 vol. Svo. London, 1911. Purchased		17435	DEPERET (Charles). The Transformations of the Animal World. Being the Authorised Translation of "Les Transformations du Monde Animal." (International Scientific Series, edited by F. Leggs.) 1 vol. Svo. London, 1909. Purchased	
17355	CAMBRIDGE ANTHROPOLOGICAL EXPEDITION. Reports of the Cambridge Anthropological Expedition to Torres Straits. Vol. IV. Arts and Crafts. 1 vol. 4to. Cambridge, 1912. Presented		17081	DEWEY (Melvil). Simplified Library School Rules. Card Catalogue, Accession, Book Numbers, Shelf List, Capitals, Punctuation, Abbreviations, Library Handwriting. (Library Bureau). 1 vol. Svo. Boston, 1904. Purchased	
	CAP HORN. Mission Scientifique du Cap Horn. 1882-83.		17446	DOELTER (C.). Handbuch der Mineralchemie. Bd. I. Allgemeine Einleitung-Kohlenstoff, Carbonate, Silicate. 1 vol. Svo. Dresden und Leipzig, 1912. Purchased	
17459	T. I. Histoire du Voyage. L. F. Martial, 1888. II. Meteorologie. J. Lephay, 1885.		17500	DONOVAN (E.). An Epitome of the Natural History of the Insects of New Holland, New Zealand, New Guinea, Otaheite, and other Islands in the Indian, Southern, and Pacific Oceans; including the figures and descriptions of one hundred and fifty-three species of the more splendid, beautiful, and interesting insects, hitherto discovered in those countries, and which for the most part have not appeared in the works of any preceding author. The figures are correctly delineated from specimens of the insects; and with the descriptions are arranged according to the Linnean System, with reference to the writings of Fabricius and other Entomologists. 1 vol. 4to. London, 1805. Purchased	
17460	T. III. Magnetisme Terrestre. Recherches sur la constitution chimique de l'atmosphère. 1886. IV. Geologie, par Le Dr. Hyades, 1887.		17532	ENOCK (C. Reginald). The Secret of the Pacific. A discussion of the Origin of the Early Civilisations of America, the Toltecs, Aztecs, Mayas, Incas, and their predecessors; and of the possibilities of Asiatic influence thereon. 1 vol. Svo. London, 1912. Purchased	
17461	T. V. Botanique, par P. Hariot, P. Petit, J. Muller d'Argovie, E. Bescherelle, C. Massalongo, et A. Franchet.		17163	FABRE (J. H.). Social Life in the Insect World by . . . translated by Bernard Miall. 1 vol. Svo. London, 1912. Purchased	
17462	T. VI. Zoologie. Mammiferes, par A. Milne-Edwards, 1891. Zoologie. Oiseaux, par E. Oustalet, 1891. do Poissons, par Leon Vaillant, 1888. do Insects, Coleopteres, par L. Fairmaire, Hemipteres, par Signoret, Neuropteres, par J. Mabille, Lepidopteres, par P. Mabille, Dipteres, par J. M. F. Bigot, 1888. do Arachnides par E. Simon, 1887. do Crustaces, par A. Milne-Edwards.		17015	FAUNA OF BRITISH INDIA (The), including Ceylon and Burma. Published under the Authority of the Secretary of State for India in Council. Vol. III. (Heteroptera-Homoptera) by W. L. Distant.	
17463	Zoologie. Priapulides, par Jules de Guerne, 1888. do Mollusques, par A. T. de Rochebrune et J. Mabille, 1889. do Bryozoaires, par Le Dr. J. Jullien. do Echinodermes, par E. Perrier, 1891. do Protozoaires, par A. Cortes, 1889. do Anatomie Comparee, Par le Dr. H. Paul Gervais, 1891.		17016	Do Vol. IV. Homoptera and Appendix, (pt.) by W. L. Distant.	
17464	T. VII. Anthropologie, Ethnographie, par P. Hyades et J. Deniker. 6 vols. 4to. Paris, 1885-1891. Purchased		17017	Do Vol. V. Heteroptera: appendix, by W. L. Distant. 3 vols. Svo. London, 1906, 1908, and 1910. Purchased	
17328	CHALLENGER SOCIETY (The). Science of the Sea: An elementary handbook of practical oceanography for travellers, sailors, and yachtsmen. Prepared by . . . for the promotion of the study of oceanography. Edited by G. Herbert Fowler, B.A., Ph.D., F.L.S., etc., with illustrations and charts. 1 vol. Svo. London, 1912. Purchased				
17431	COCKAYNE (L.). New Zealand Plants and their Story. 1 vol. Svo. Wellington, 1910. Presented				
17100	COOMBE (Florence). Islands of Enchantment. Many-sided Melanesia seen through many Eyes, and Recorded by . . . 1 vol. Svo. London, 1911. Purchased				
17441	COSSMAN (M.). Essais de Paléoconchologie Comparee. Livr. 9e. Ouvrage Couronne par l'Académie des Sciences. 1 vol. Svo. Paris, 1912. Purchased				



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
17340	FAUNA OF BRITISH INDIA (The), including Ceylon and Burma. Fresh-water Sponges, Hydroids, and Polyzoa, by N. Annandale, D.Sc. 1 vol. 8vo. London, 1911.	Purchased	17322	HOWCHIN (Walter). The Geography of South Australia, including the Northern Territory. Historical, Physical, Political, and Commercial, by . . . . . With an introduction by Professor J. W. Gregory, D.Sc., F.R.S. 1 vol. 8vo. Melbourne, n.d.	Purchased
17167	FAVENC (Ernest). The History of Australian Exploration, from 1788 to 1888. Compiled from State Documents, private papers, and the most authentic sources of information. Issued under the auspices of the Governments of the Australian Colonies. 1 vol. 8vo. Sydney, 1888.	Purchased	17155	JAMES (S. P.), and LISTON (W. Glen). A Monograph of the Anopheline Mosquitoes of India. 2nd edition. 1 vol. 4to. Calcutta, 1911.	Purchased
17346 17347	FRAZER (J. G.). The Golden Bough, a study in Magic and Religion. Third edition, Part v. Spirits of the Corn and of the Wild. Vols. I-II. 2 vols. 8vo. London, 1912.	Purchased	17092	JOHNSON (J. P.). The Stone Implements of South Africa. Second Edition, revised and enlarged. 1 vol. 8vo. London, 1908.	Purchased
17501	FORREST (Captain Thomas). A Voyage to New Guinea and the Moluccas, from Balambangan; including an account of Magindano, Sooloo, and other Islands. Performed in the Tartar Galley, belonging to the Honourable East India Company, during the years 1774, 1775, and 1776, to which is added a vocabulary of the Magindano tongue. 1 vol. 4to. London and Edinburgh, 1779.	Purchased	17147	JOLY (Henri L.). Legend in Japanese Art. A description of historical episodes, legendary characters, folk-lore, myths, religious symbolism illustrated in the arts of old Japan. 1 vol. 4to. London, 1908.	Purchased
17108	GOULD (Augustus A.). Otia Conchologica: Descriptions of Shells and Mollusks, from 1839 to 1862. Contains:— Expedition Shells; described for the work of the U.S. Exploring Expedition, commanded by Charles Wilkes, U.S.N., during the years 1838-1842. (From Proceedings of the Boston Society of Natural History), 1846. Shells of the North Pacific Exploring Expedition. Commanders Ringold and Rodgers; mostly collected by William Stimpson. Collectanea: Descriptions of Shells and Mollusks, reprinted from various Scientific Periodicals, with revisions, 1839-1862. Rectifications. 1 vol. 8vo. Boston, 1862.	Presented by C. Hedley	17499	JOYCE (Thomas A.). South American Archaeology: An introduction to the Archaeology of the South American Continent, with special reference to the early history of Peru. 1 vol. 8vo. London, 1912.	Purchased
17442	HADDON (A.C.) and others. Arts and Crafts (Torres Straits). Reports of the Cambridge Anthropological Expedition, Vol. iv. Containing:— Introduction and Daily Life. Decoration of the Person and Toilet. Personal Ornaments and Clothing. Textiles. Houses. Domestic Utensils and Tools. Food and its Preparation and Narcotics. Horticulture. Hunting and Fishing. Weapons and Objects employed in Warfare. Transport and Canoes. Science. Music. Sound-producing Instruments. Songs. Dances and Dance Paraphernalia. Greetings. 1 vol. 4to. Cambridge, 1912.	Presented	17498	KEITH (Arthur). Ancient Types of Man. 1 vol. 8vo. London and New York, 1911.	Purchased
17145	HARTLAND (Edwin S.). Primitive Paternity. The Myth of Supernatural birth in relation to the history of the family. Vols. I-II. 2 vols. 8vo. London, 1909-1910.	Purchased	17109	KORSCHULT (E.) and HEIDER (K.). Text-book of the Embryology of Invertebrates, by . . . . . Part I. Porifera, Cnidaria, Ctenophora, Vermes, Enteropneusta, Echinodermata. 1895.	
17149	HOPKINS (Manley). Hawaii: The Past, Present, and Future of its Island-Kingdom. An Historical account of the Sandwich Islands (Polynesia) by . . . . . with a preface by the Bishop of Oxford. 1 vol. 8vo. London, 1866.	Purchased	17110	— Vol. II. Phoronidea, Bryozoa, Ectoprocta, Brachiopoda, Entoprocta, Crustacea, Paleostraca. 1899.	
17497	HOWARD (L. O.). The House Fly, Disease Carrier. An account of its dangerous activities and of the means of destroying it. 1 vol. 8vo. London, 1912.	Purchased	17111	— Vol. III. Arachnida, Pentastomida, Pantopoda, Tardigrada, Onychophora, Myriapoda, Insecta. 1900.	
			17112	— Vol. IV. Amphineura, Lamellibranchia, Solenochonca, Gastropoda, Cephalopoda, Tunicata, Cephalochorda. 4 vols. 8vo. London, 1895-1900.	Purchased
			17443	LINNAEUS (C.). Museum S.R.M., Ludovicae Ulricae Reginae . . . . . in quo Animalia rariora, exotica, imprimis Insecta, Conchilia describuntur, determinantur. Issued with this was:— Museum S.R.M. Adolphi Fridici Regis . . . . . in quo Animalia rariora imprimis, et exotica: Aves, Amphibia, Pisces describuntur. Tomi secunda prodromus. 1 vol. 8vo. Holmiae, 1764.	Purchased
			17142	LOCKYER (J. Norman). The Dawn of Astronomy: a study of the Temple-Worship and Mythology of the Ancient Egyptians. 1 vol. 8vo. London, 1894.	Purchased
			17082	LUNDBECK (Will.). (Torben Lundbeck transl.) Porifera of the Danish Ingolf Expedition. Part I. Homorhaphidae and Hekerorhaphidae. II-III. Desmacidonidae, 1905, and 1910. In 1 vol. 4to. Copenhagen, 1902.	Purchased
			17329	LYDEKKER (R.). The Horse and its Relatives. 1 vol. 8vo. London, 1912.	Purchased
			17188	MAIDEN (J. H.). A Critical Revision of the genus Eucalyptus. Vol. I. Pts. 1-10. 1 vol. 4to. Sydney, 1909.	Purchased
			17432	MARSHALL (P.). Geology of New Zealand. 1 vol. 8vo. Wellington, 1912.	Purchased
			17130 17131	MATSUMURA (S.). Thousand Insects of Japan. Supplement II-III. 2 vols. Tokyo, 1911.	Purchased
			17531 17532 17533	MURRAY (David). Museums, Their History and Their Use; with a Bibliography and list of Museums in the United Kingdom. Volumes I-III. 3 vols. 8vo. Glasgow, 1904.	Purchased
			17495	NATIONAL ANTARCTIC EXPEDITION, 1901-1904. Natural History. Vol. VI. Zoology and Botany. 1 vol. 4to. London, 1912.	Presented



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
17119	NELSON and SONS (Thomas). Standard Books: An Annotated and classified guide to the best books in all departments of literature, with a copious index of subjects and biographical notes of authors. Vol. III. 1 vol. 8vo. London, 1912.	Purchased	17535	SURCOUF (J. M. R.) and GONZALES-RINCONES (R.). Essai sur les Diptères vulnérants du Venezuela. Matériaux pour servir à l'étude des Diptères de piqueurs et suceurs de sang de l'Amérique intertropicale. Première partie, Diptères Nématocères vulnérants. 1 vol. 8vo. Paris, 1911.	Purchased
17349 17364	NEUHAUSS (R.). Deutsch Neu-Guinea von . . . . . In drei Bänden. Herausgegeben mit Unterstützung der Rudolf Virchow-Stiftung in Berlin. Bd. III. 2 vols. 4to. Berlin, 1911.	Purchased	17534	TRINIL EXPEDITION. Die Pithecanthropus-Schichten auf Java. Geologische und Paläontologische Ergebnisse der Trinil-Expedition (1907-8). Ausgeführt mit Unterstützung der Akademischen Jubiläumsstiftung der Stadt Berlin und der Königlich Bayerischen Akademie der Wissenschaften, herausgegeben von M. Lenore Selenka und Prof. Max Blanckenhorn. 1 vol. 4to. Leipzig, 1911.	Purchased
17345	PAGENSTECHER (Arnold). Die geographische Verbreitung der Schmetterlinge. 1 vol. 8vo. Jena, 1909.	Purchased	17344	VOGEL (Hans). Eine Forschungsreise im Bismark Archipel. Bearbeitet von Hans Vogel. Mit einer Einführung von Prof. Dr. G. Thilenius, Direktor des Hamburgischen Museums für Völkerkunde. (Hamburger Wissenschaftliche Stiftung.) 1 vol. 4to. Hamburg, 1911.	Purchased
17362	PARKER (K. Langloh). Australian Legendary Tales, Folk-lore of the Noongah-burrahs as told to the piccaninnies. Collected by Mrs. K. Langloh Parker, with introduction by Andrew Lang. Illustrations by a native artist, and a specimen of the native text. 1 vol. 8vo. London and Melbourne, 1896.	Purchased	17113	WEBSTER (John). The Last Cruise of "The Wanderer." Autograph presentation copy from the Author to His Honor Mr. Justice Wise. Contains also coloured pen and ink sketch of Mauna Loa, by Lieut. W. R. Smith, when visited by him in 1847. 1 vol. 8vo. Sydney, 1852.	Purchased
17103	PETIVER (Jacob). Musci Petiveriani. Centuriae Prima-Decima. Rariora naturae continens: viz animalia, fossilia, plantas, ex variis mundi plagis advecta, ordine digesta, nominibus propriis, signata. 1 vol. 8vo. London, 1695-1703.	Presented by C. Hedley	17091	WESTELL (W. Percival). The Book of the Animal Kingdom. Mammals. Contains a Chapter on Australian Mammals by Charles Barrett. 1 vol. 8vo. London, 1910.	Purchased
17371	PETRIE (W. M. Flinders). Personal Religion in Egypt before Christianity. 1 vol. 8vo. London and New York, 1912.	Purchased	17144	WHEELER (Gerald C.). The Tribe, and Inter-tribal Relations in Australia, by . . . with a prefatory note by Edward A. Westermarck. 1 vol. 8vo. London, 1910.	Purchased
17373	—The Arts and Crafts of Ancient Egypt. 2nd edit. 1 vol. 8vo. London and Edinburgh, 1910.	Purchased	17323	WILLIAMSON (Robert W.). The Mafulu Mountain People of British New Guinea, by . . . with an introduction by A. C. Haddon, Sc.D., F.R.S. 1 vol. 8vo. London, 1912.	Purchased
17439	—Religion and Conscience in Ancient Egypt. Lectures delivered at University College, London. 1 vol. 8vo. London, 1898.	Purchased	17333	WOLLASTON (A. F. R.). Pygmies and Papuans; the Stone Age to-day in Dutch New Guinea, by . . . with appendices by W. R. Ogilvie-Grant, A. C. Haddon, F.R.S., and Sidney H. Ray. 1 vol. 8vo. London, 1912.	Purchased
17338	RÜPPELL (Eduard). Beschreibung und Abbildung von 24 Arten kurzschwanzigen, Krabben, als Beitrag zur Naturgeschichte des rothen Meeres. 1 vol. 4to. Frankfurt a. M., 1830.	Purchased	PART II.—PERIODICALS. INTERNATIONAL		
17350	SCHURIG (Walther). Hydrobiologisches und Plankton-Praktikum. Eine erste Einführung in das Studium der Süsswasserorganismen von Dr. Walther Schurig, mit einem Vorwort von Dr. Richard Woltereck. 1 vol. 8vo. Leipzig 1910.	Purchased			
17342	SCOTTISH NATIONAL ANTARCTIC EXPEDITION. Report on the Scientific Results of the S.Y. "Scotia," during the years 1902, 1903, and 1904, under leadership of William S. Bruce, LL.D., F.R.S.E. Vol. III. Botany, Parts I-XI. By R. N. Rudmose Brown, D.Sc.; C. H. Wright, A.L.S.; O. V. Darbyshire, B.A., Ph.D.; Jules Cardot; A. Gepp, M.A.; E. S. Gepp; E. M. Holmes, F.L.S.; M. Foslie; F. E. Fritsch, D.Sc., Ph.D.; J. H. Harvey Pirie, B.Sc., M.D., F.R.C.P., Ed. 1 vol. 4to. Edinburgh, 1912.	Purchased	17439	CONGRES INTERNATIONAL D'ENTOMOLOGIE. 1st Congres, Bruxelles, 1-6 Aout 1910. Volume I. Historique et Procès-verbaux par G. Severin, M. M. F. Ball, J. Desneux, L. Gedeelst, K. Jordan, F. Ris, M. de Selys Longchamps, et M. M. W. Horn, et A. Lameere. Volume II. Memoires. In 1 vol. 8vo. Bruxelles, 1912.	Purchased
17138	777 vel Prolegomena symbolica ad systemam sceptico mysticæ viae explicandæ, fundamentum hieroglyphicum sanctissimorum scientiæ summar. 1 vol. 8vo. London, 1909.	Purchased	INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.		
17372	SMITH (G. Elliot). The Ancient Egyptians and their influence upon the Civilization of Europe. 1 vol. 8vo. London and New York, 1911.	Purchased			
17330	SPENCER (Baldwin) and GILLEN (F. J.). Across Australia. Vol. I. 2 vols. 8vo. London, 1912.	Purchased	17139	Ninth Annual Issue. H. Geology. 1912	
17331	Do. II.		17098	Do do K. Palaeontology. 1911	
17164	SPENCER (Leonard J.). The World's Minerals. With forty coloured plates and twenty-one diagrams. 1 vol. 8vo. London, 1911.	Purchased	17190	Do do D. Chemistry. 1912.	
17337	STEAD (David G.). The Edible Fishes of New South Wales: their present importance and their potentialities. (Department of Fisheries, N.S.W.) 1 vol. 8vo. Sydney, 1908.	Presented	17118	Do do G. Mineralogy. 1912.	
17090	SUTTON (J. Bland). Man and Beast in Eastern Ethiopia. From Observations made in British East Africa, Uganda, and the Sudan. 1 vol. 8vo. London, 1911.	Purchased	17191	Do do L. General Biology. 1912.	
			17192	Do do P. Anthropology. 1912.	
			17440	Do do R. Bacteriology. 7 vols. 8vo. London, 1912.	Purchased
			17326	Tenth Annual Issue. G. Mineralogy, including Petrology and Crystallography. 1912	
			17089	Tenth Annual Issue. N. Zoology. 2 vols. 8vo. London, 1911-1912.	Purchased



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
17433	INTERNATIONAL ZOOLOGEN-KONGRESS. Verhandlungen des Kongresses VIII, zu Graz, 15th-20th August, 1910. Herausgegeben vom Generalsekretär des Kongresses Rudolf Ritter Von Stummer-Tranfels. 1 vol. 8vo. Jena, 1912. Purchased		17186	ROYAL SOCIETY OF NEW SOUTH WALES. Journal and Proceedings of the . . . for 1910. Vol. XLIV. 1 vol. 8vo. Sydney, 1910. Presented	
	COMMONWEALTH OF AUSTRALIA.		17363	UNIVERSITY OF SYDNEY. Calendar for 1912. 1 vol. 8vo. Sydney, 1912.	
17433	AUSTRALASIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Report of the Thirteenth Meeting held at Sydney, 1911. Edited by the Permanent Honorary Secretary, assisted by the Secretaries of Sections. 1 vol. 8vo. Sydney, 1912. Presented		17187	YEAR BOOK. The official year book of New South Wales, 1909-10. 1 vol. 8vo. Sydney, 1910. Presented	
17136	COMMONWEALTH OF AUSTRALIA. LIBRARY OF PARLIAMENT. Catalogue of the Books, Pamphlets, Pictures, and Maps in the Library of Parliament to September, 1911. 1 vol. 8vo. Melbourne, 1912. Presented			VICTORIA.	
17207	COMMONWEALTH OF AUSTRALIA. Papua, Annual Reports for the years 1907-1911. 1 vol. Folio. Melbourne, 1907-11. Presented		17189	AGRICULTURE (Department of). Journal, Vol. ix, 1911. 1 vol. 8vo. Melbourne, 1911. Presented	
17324	COMMONWEALTH BUREAU OF CENSUS AND STATISTICS. Official Year-book of the Commonwealth of Australia, containing Authoritative Statistics for the period 1901-1911, and corrected Statistics for the period 1788-1900. No. 5, 1912. Published under the authority of the Minister for Home Affairs, by G. H. Knibbs, C.M.G. 1 vol. 8vo. Melbourne, 1912. Presented		17102	MELBOURNE UNIVERSITY. Calendar, 1912. 1 vol. 8vo. Melbourne, 1911. Presented	
17185	ROYAL ANTHROPOLOGICAL SOCIETY OF AUSTRALASIA. Science of Man: Journal of . . . Vol. VIII. Nos. 1-6. IX. Nos. 1-10. X. Nos. 1-8, 10-12. XI. Nos. 1-3, 8-12. XII. Nos. 1-4, 6-12. 1 vol. 8vo. Sydney, 1906-1911. Presented			QUEENSLAND.	
	NEW SOUTH WALES.		17200	AGRICULTURE (Department of). The Queensland Agricultural Journal, Vol. XXVII, 1911-1912. 1 vol. 8vo. Brisbane, 1911-1912. Presented	
17069	AGRICULTURE (Department of). The Agricultural Gazette of New South Wales. Vol. XXI, 1910. Do do Vol. XXII, 1911. 2 vols. 8vo. Sydney, 1910-11. Presented		17152	QUEENSLAND PHILOSOPHICAL SOCIETY. The Annual Report of the . . . with the President's address. 1 vol. 8vo. Brisbane, 1877. Presented by C. Hedley.	
17181	BOTANIC GARDENS, SYDNEY. The Forest Flora of New South Wales. By J. H. Maiden. Vol. iv, Parts 31-40. 1 vol. 4to. Sydney, 1911. Presented		17201	ROYAL GEOGRAPHICAL SOCIETY OF AUSTRALASIA. Queensland Geographical Journal (new series), including the Proceedings of the Royal Geographical Society of Australasia, Queensland. 21st Session, 1905-6, to 25th Session, 1909-10. Vols. XXI-XXV. 1 vol. 8vo. Brisbane, 1907-11. Presented	
17202	GEOLOGICAL SURVEY, NEW SOUTH WALES. Mineral Resources, Nos. 11-14. 1 vol. 8vo. Sydney, 1906-1911. Presented			SOUTH AUSTRALIA.	
17182	INSTITUTION OF SURVEYORS, NEW SOUTH WALES. The Surveyor: The Journal of the . . . Vols. XXIII-XXIV. 1910-1911. 1 vol. 8vo. Sydney, 1910-1911. Presented		17137	ADELAIDE UNIVERSITY. Calendar of the University of Adelaide for the Year 1912. 1 vol. 8vo. Adelaide, 1912. Presented	
17183	LINNEAN SOCIETY OF NEW SOUTH WALES. Proceedings for the year 1911. Vol. XXXVI. 1 vol. 8vo. Sydney, 1912. Presented		17197	ROYAL GEOGRAPHICAL SOCIETY OF AUSTRALASIA (South Australian Branch) Proceedings, Vols. VII-XI. 1 vol. 8vo. Adelaide, 1904-11. Presented	
17156	PARLIAMENT, NEW SOUTH WALES. The New South Wales Parliamentary Record from the First Parliament under responsible government (opened 22nd May, 1856), to and including members elected to the 22nd Parliament, September-October, 1910. Containing an alphabetical record of members of both Houses and showing particulars of Parliaments, Administrations, and Parliamentary Officials. Compiled in the Offices of the Clerk of Parliaments and the Clerk of the Legislative Assembly. Third edition, January, 1911. 1 vol. 8vo. Sydney, 1911. Presented		17198	ROYAL SOCIETY OF SOUTH AUSTRALIA. Transactions and Proceedings and Report of the . . . Vols. XXXIII-XXXV. 1 vol. 8vo. Adelaide, 1909-11. Presented	
17184	PUBLIC INSTRUCTION (Department of). Public Instruction Gazette, Vol. iv, 1910. 1 vol. 4to. Sydney, 1911. Presented			WEST AUSTRALIA.	
17123	PUBLIC LIBRARY OF NEW SOUTH WALES. Historical Notes. By F. M. Bladen. 2nd edition. 1 vol. 8vo. Sydney, 1911. Presented		17199	AGRICULTURE (Department of). Journal, Vol. XVIII, parts 1-9, January to September, 1909. (Ceased publication.) 1 vol. 8vo. Perth, 1909. Presented	
			17334	YEAR-BOOK (Western Australian). Western Australian Year-Book for 1900-01. (Twelfth Edition). Vol. I. 1900-03. (Twelfth Edition). Vol. II (1902-04). 1902-04 (Thirteenth Edition), (1906). For 1905 (Fourteenth Edition) Advance sheets, Parts 1-3, 6, 14. 3 vols. 8vo. Perth, 1902-6. Presented	
				TASMANIA.	
			17193	AGRICULTURE (Council of). The Agricultural Gazette, the Journal of the . . . Vols. XVII (Nos. 3 and 8 missing) XVIII, 1909-10. 1 vol. 4to. Hobart, 1909-10. Presented	
				MINES (Department of). Geological Survey Bulletins, Nos. 1-7. Do do 8-10. 2 vols. 8vo. Hobart, 1907-9 and 1910-11. Presented	
			17196	ROYAL SOCIETY OF TASMANIA. Papers and Proceedings, 1903-1910. 1 vol. 8vo. Hobart, 1906-1911. Presented	
				NEW ZEALAND.	
			17204	GEOLOGICAL SURVEY. Bulletins Nos. 8-13 (New Series). 1 vol. 4to. Wellington, 1909-11. Presented	
			17203	MINES (Department of). Papers and Reports relating to Minerals and Mining, 1908-1911. 1 vol. Folio. Wellington, 1908-1911. Presented	



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
17129	NEW ZEALAND OFFICIAL YEAR-BOOK. The New Zealand Official Year-Book 1911 (Twentieth year of issue). Prepared under instructions from the Right Hon. Sir J. G. Ward, P.C., etc., by M. Fraser, Government Statistician.		17210	AVICULTURAL MAGAZINE (The). Being the Journal of the Avicultural Society for the Study of Foreign and British Birds, in freedom and captivity. Third series. Vol. i. November, 1909, to October, 1910.	
	1 vol. 8vo. Wellington, 1911.	Presented	17211	Third series. Vol. ii. November, 1910, to October, 1911.	
	PACIFIC ISLANDS.			2 vols. 8vo. London, 1910-11.	Purchased
17205	BRITISH SOLOMON ISLANDS. Annual Reports for 1897-8-1904-5.		17212	BOOK PRICES CURRENT. A record of the prices at which Books have been sold at Auction, from October, 1910, to August, 1911, being the season 1910-1911. Vol. xxv.	
	1 vol. 8vo. London, 1898-1905.	Presented		1 vol. 8vo. London, 1911.	Purchased
17206	NEW HEBRIDES MAGAZINE (The). "A Journal of Missionary and General Information regarding the Islands of the New Hebrides." Nos. 25-41. July, 1907-October, 1911.		17160	BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Report of the Eighty-first meeting of the British Association for the Advancement of Science. Portsmouth, 1911. August 31-September 7.	
	1 vol. 8vo. Melbourne, 1907-1911.	Purchased		1 vol. 8vo. London, 1912.	Presented
	GREAT BRITAIN.			BRITISH MUSEUM.	
	London.		17339	Catalogue of the Finger Rings, Greek, Etruscan, and Roman, in the Departments of Antiquities, British Museum. By F. H. Marshall, M.A.	
	ADMIRALTY (Lords Commissioners of).			1 vol. 8vo. London, 1907.	Presented
	Australia Directory.		17488	Special Guide No. 5. Guide to the Exhibition of Animals, Plants, and Minerals mentioned in the Bible. Second edition.	
17356	Vol. i. Comprising the south and south-east coasts from Cape Leeuwin to Port Jackson; including Bass Strait and Tasmania. 10th edition, 1907.			1 vol. 8vo. London, 1911.	Presented
17357	Vol. ii. Comprising the east coast from Port Jackson to Cape York, Torres Strait, and approaches to the Coral Sea, and part of the Gulf of Carpentaria. 6th edition. 1907.		17489	Catalogue of the Chiroptera in the Collection of the British Museum. Second edition by Knud Andersen. Vol. i. Megachiroptera.	
17358	Vol. iii. (comprising) north, north-west, and west coasts, from Torres Strait to Cape Leeuwin. 4th edition. 1905. Being chiefly the result of various surveys made by order of the Lords Commissioners of the Admiralty.			1 vol. 8vo. London, 1912.	Presented
	3 vols. 8vo. London, 1905-1907.	Purchased	17491	General Index to a Hand List of the Birds. (Nomenclator Avium tum fossilium tum viventium.) Vols. i-v, edited by W. R. Ogilvie-Grant.	
	Eastern Archipelago Pilot.			1 vol. 8vo. London, 1912.	Presented
17114	Part i (Eastern Part). Comprising the Philippine Islands (with the exception of the Western coasts of Luzon and Palawan), Sulu Sea, Sulu Archipelago, Celebes Sea, and the North-east Coast of Borneo. Third edition. 1911.		17492	Catalogue of the Lepidoptera Phalaenae in the British Museum. Vol. xi. Catalogue of the Noctuidae in the Collection of the British Museum, by Sir George F. Hampson, Bart.	
17115	Part ii. (Western Part). Comprising the South-east coast of Sumatra, Java, Islands east of Java, South and East coasts of Borneo and Celebes Island. Second edition. 1904.			1 vol. 8vo. London, 1912.	Presented
	2 vols. 8vo. London, 1911 and 1904.	Purchased	17493	Catalogue of the Lepidoptera Phalaenae in the British Museum. Vol. xi. Plates CLXXIV-cxci.	
	Pacific Islands.			1 vol. 8vo. London, 1912.	Presented
17359	Vol. i. Sailing directions for the South-east, North-east, and North coasts of New Guinea, also for the Louisiade and Solomon Islands, the Bismarck Archipelago, and the Caroline and Mariana Islands. 4th edition. 1908.		17490	A Revision of the Ichneumonidae based on the Collection in the British Museum (Natural History); with Descriptions of New Genera and Species. Part i. Tribes Ophionides and Metopiides. By Claude Morley, F.Z.S., F.E.S.	
17360	Vol. ii. Sailing directions for Fiji, Tonga, Samoa, Union, Phoenix, Ellice, Gilbert, Marshall Islands, New Caledonia, Loyalty, New Hebrides, Banks, Torres, and Santa Cruz Islands. 4th edition. 1908.			1 vol. 8vo. London, 1912.	Presented
17361	Vol. iii. Sailing directions for Tubuai, Cook, and Society Islands, Tuamotu or Low Archipelago, Marquesas, Line Islands, or Scattered Islands near the Equator, Sandwich or Hawaiian Islands, etc. 4th edition. 1909.		17494	A Monograph of the Mycetozoa; a Descriptive Catalogue of the species in the Herbarium of the British Museum. By Arthur Lister. Second edition, revised by Guelma Lister.	
	3 vols. 8vo. London, 1908-1909.	Purchased		1 vol. 8vo. London, 1911.	Presented
17208	AGRICULTURE (Board of). The Journal of the Board of Agriculture. Vol. xviii. (April, 1911, to March, 1912.)			BRITISH ORNITHOLOGIST'S UNION.	
	1 vol. 8vo. London, 1912.	Presented	17213	The Ibis. A Quarterly Journal of Ornithology. Vol. iv. 1910. Ninth series.	
17209	ANNALS AND MAGAZINE OF NATURAL HISTORY. The Annals and Magazine of Natural History, including Zoology, Botany, and Geology. (Being a continuation of the "Annals" combined with Loudon and Charlesworth's "Magazine of Natural History." Conducted by Albert C. Gunther, William Carruthers, and William Francis. Vol. viii. Eighth series.		17214	Do do Vol. v. 1911.	
	1 vol. 8vo. London, 1911.	Purchased		2 vols. 8vo. London, 1910 and 1911.	Presented
			17215	ECONOMIC BIOLOGY (The Journal of). Vols. v-vi. 1910-1911.	
				1 vol. 8vo. London, 1910-11.	Presented
				EGYPT EXPLORATION FUND.	
			17216	Archaeological Reports, 1905-6-1910-11.	
				1 vol. 4to. London, 1906-11.	Purchased
			17104	Pre-Dynastic Cemetery at El Mahasna. By Edward R. Ayrton and W. L. S. Loat. Thirty-first Memoir of . . .	
				1 vol. 4to. London, 1911.	Purchased
			17217	Reports of the Twenty-fifth-Thirdieth Ordinary General Meetings. 1905-6-1910-11.	
				1 vol. 8vo. London, 1906-11.	Purchased
				ENTOMOLOGICAL SOCIETY OF LONDON.	
			17218	The Transactions of the . . . for the year 1910.	
			17219	Do do do 1911.	
				2 vols. 8vo. London, 1910-11 and 1911-12	Purchased



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
17220	ENTOMOLOGIST (The). An illustrated Journal of General Entomology. Volume the Forty-third. Volume the Forty-fourth. (November missing). 2 vols. 8vo. London, 1910 and 1911. Purchased		17232	ROYAL ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND. The Journal of the . . . Vol. XL. 1910.	
17222	ENTOMOLOGIST'S Monthly Magazine. Second series. Vols. XXI-XXII (Vols. XLVI-XLVII.) (April, 1911, missing.) 1 vol. 8vo. London, 1910-11. Purchased.		17233	— Vol. XL. 1911. 2 vols. 8vo. London, 1910-11. Purchased	
17223	GEOLOGICAL MAGAZINE (The) or Monthly Journal of Geology with which is incorporated "The Geologist." New series Decade V. Vol. VIII. January to December, 1911. 1 vol. 8vo. London, 1911. Purchased		17234	ROYAL COLONIAL INSTITUTE. United Empire, n.s. Vol. I.	
17530	GEOLOGICAL SOCIETY. Geological Literature added to the Geological Society's Library during the year ended December 31st, 1907. 1908. Do do 1908. 1909. Do do 1909. 1910. Do do 1910. 1911. 1 vol. 8vo. London, 1908-1911. Purchased		17235	Do do Vol. II. 2 vols. 8vo. London, 1910-11. Purchased	
71502	GEOLOGIST (The). A Popular Magazine of Geology; edited by S. J. Mackie. 1858.		17236	ROYAL GEOGRAPHICAL SOCIETY. The Geographical Journal. Vol. XXXVI. July to December, 1910.	
17503	Do do do 1859.		17237	Do do Vol. XXXVII. January to June, 1911.	
17504	Do do do 1860.		17238	Do do Vol. XXXVIII. July to December, 1911. 3 vols. 8vo. London, 1910-11. Purchased	
17505	Do do do 1861.		17239	ROYAL MICROSCOPICAL SOCIETY. Journal of the . . . containing its Transactions and Proceedings, and a summary of current researches relating to Zoology and Botany (principally Invertebrate and Cryptogamia), Microscopy, etc., for the year 1910.	
17506	Do do do 1863-4. 5 vols. 8vo. London, 1858-64. Purchased		17240	Do do 1911. 2 vols. 8vo. London, 1910-11. Purchased	
17225	GEOLOGICAL SOCIETY OF LONDON. The Quarterly Journal of the . . . Vol. LXVII. 1911. 1 vol. 8vo. London, 1911. Purchased		17341	ROYAL SOCIETY OF LONDON. . . Philosophical Transactions of the . . . Series A. Containing papers of a Mathematical and Physical character. Vol. 211. 1 vol. 4to. London, 1912. Purchased	
17224	GEOLOGISTS' ASSOCIATION. Proceedings of the . . . Vol. XXI. 1909 to 1910. 1 vol. 8vo. London, 1910. Purchased		17094	Do do Series B. Containing papers of a Biological character. Vol. 201. 1 vol. 4to. London, 1911. Purchased	
17226	LINNEAN SOCIETY. (The Journal of the Zoology. Vol. XXX. 1 vol. 8vo. London, 1907-10. Presented		17241	— Proceedings of the. Series A. Containing papers of a Mathematical and Physical character. Vol. LXXXIV.	
17227	MALACOLOGICAL SOCIETY OF LONDON. Proceedings of the . . . Vol. IX. 1910-1911. 1 vol. 8vo. London, 1911. Purchased		17242	Do do Vol. LXXXV. 2 vols. 8vo. London, 1911. Presented	
17228	MICROSCOPICAL SCIENCE (Quarterly Journal of). Vol. 57. New Series. 1 vol. 8vo. London, 1912. Purchased		17243	— Proceedings. Series B. Containing papers of a Biological character. Vol. LXXXII. 1910.	
17229	MINERALOGICAL SOCIETY. The Mineralogical Magazine. Vol. xv. 1908-1910. 1 vol. 8vo. London, 1908-10. Purchased		17244	Do do Vol. LXXXIII. 1911.	
17088	MUSEUMS ASSOCIATION. Directory of Museums in Great Britain and Ireland; together with a Section on Indian and Colonial Museums. Compiled by E. Howarth and H. M. Platnauer. 1 vol. 8vo. London, 1911. Purchased		17245	Do do Vol. LXXXIV. 1912. 3 vols. 8vo. London, 1910-12. Presented	
17255	The Museums Journal. The Organ of the . . . Vol. IX. 1909-1910. 1 vol. 8vo. London, 1910. Purchased		17154	— Year-book of the. 1912. 1 vol. 8vo. London, 1912. Presented	
17231	NATURE. A weekly illustrated Journal of Science. Vol. LXXXVII. July to October, 1911.		17157	YEAR BOOK (The) of the Scientific and Learned Societies of Great Britain and Ireland: A record of work done in Science, Literature, and Art during the session 1910-1911, by numerous Societies and Government Institutions. Compiled from official Sources. Twenty-eighth Annual Issue. 1 vol. 8vo. London, 1911. Purchased	
17230	Do do Vol. LXXXVIII. November, 1911, to February, 1912. 2 vols. 8vo. London, 1911-1912. Purchased		17132	ZOOLOGICAL RECORD (The), volume the Forty-seventh, being Records of Zoological Literature relating chiefly to the year 1910. Compiled by the Regional Bureaus of the International Catalogue of Scientific Literature; supplemented and arranged for the Zoological Society of London, by D. Sharp and others. Superintended by David Sharp. 1 vol. 8vo. London, 1911. Presented	
17159	PALEONTOGRAPHICAL SOCIETY. Volume LXV. Issued for 1911. Contains:— 1. The Pleistocene Mammalia-Mustelidae. With title page and index to Vol. II, by Prof. S. H. Reynolds. 2. The Carboniferous Ganoid Fishes. Part I, No. 6, by Dr. R. H. Tranquair. 3. The Fishes of the English Chalk. Part VII, with title page and index, by Dr. A. S. Woodward. 4. The Cretaceous Lamellibranchia. Vol. II, Part VIII, by Mr. H. Woods. 5. The Fossil Sponges. Title page and index to Vol. I, by Dr. G. H. Hinde. 1 vol. 8vo. London, 1912. Purchased		17246	ZOOLOGICAL SOCIETY. Proceedings, 1910, pp. 1-588. pp. 589-1033.	
17150	RAY SOCIETY. The British Tunicata: an unfinished Monograph by the late Joshua Alder and the late Albany Hancock, F.L.S. Edited by John Hopkinson. Vol. III. Aggregate (Ascidie Composite). 2 vols. 8vo. London, 1912. Purchased		17247	Do 1911, pp. 1-555. pp. 557-1213.	
17151	A Monograph of the British Desmidiaceae, by W. West and G. S. West. Vol. IV. 2 vols. 8vo. London, 1912. Purchased		17248	Do 1911, pp. 1-555. pp. 557-1213.	
			17249	4 vols. 8vo. London, 1910-11. Presented	
			17250	— Transactions. Vol. XVIII. 1 vol. 4to. London, 1907-11. Presented	
			17251	ZOOLOGIST (The). A Monthly Journal of Natural History. Fourth Series. Vol. XIV. 1910.	
			17252	Do do Vol. XV. 1911. 2 vols. 8vo. London, 1910-11. Purchased	
				England.	
			17083	LIVERPOOL BIOLOGICAL SOCIETY. Proceedings and Transactions. Vol. XXV. Session 1910-1911. 1 vol. 8vo. Liverpool, 1911. Purchased	
			17253	LIVERPOOL GEOLOGICAL SOCIETY. A Retrospect of Fifty Years' Existence and Work, by W. Hewitt, B.Sc., A.R.S.M. 1 vol. 8vo. Liverpool, 1910. Presented	



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.	
17254	MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY (Memoirs and Proceedings of the). (Manchester Memoirs.) Vols. LIV (1909-10)-LV (1910-11). 1 vol. 8vo. Manchester, 1911.	Presented	GEOLOGICAL SURVEY—continued.			
17262	NATURAL HISTORY SOCIETY OF NORTH-UMBERLAND, DURHAM, AND NEW-CASTLE-UPON-TYNE (Transactions of the). New Series. Vol. III. 1908-1911. 1 vol. 8vo. London, 1908-1911.	Presented	No. 982. Report on a Portion of Conrad and Whitehorse Mining Districts, Yukon, by D. D. Cairnes. 1908.			
17256	NATURALIST (The). A monthly journal of natural history for the North of England. 1909-10. 1 vol. 8vo. London, 1909-10.		No. 992. Report on a Portion of North-western Ontario, traversed by the National Transcontinental Railway between Lake Nipigon and Sturgeon Lake by W. H. Collins. 1908.			
17257	PLYMOUTH INSTITUTION AND DEVON AND CORNWALL NATURAL HISTORY SOCIETY (Annual Reports and Transactions of the). Vol. XIV. 1903-4, 1908-9. 1 vol. 8vo. Plymouth, 1911.	Presented	No. 1028. Report on a recent discovery of Gold near Lake Megantic, Quebec, by John A. Dresser. 1908.			
17258	ROYAL CORNWALL POLYTECHNIC SOCIETY (The Seventy-sixth to Seventy-eighth Annual Reports of the). New series. Vol. I, Parts 1-3. 1909-1911. 1 vol. 8vo. Truro and Penryn, 1909-11.	Presented	No. 1021. Summary Report on Explorations in Nova Scotia, 1907, by Hugh Fletcher. 1908.			
17259	UNIVERSITY OF LIVERPOOL, INSTITUTE OF ARCHAEOLOGY. Annals of Archaeology and Anthropology. Vols. III (MCMX)-IV (MCMXII). 1 vol. 8vo. London, 1910-12.	Presented	No. 996. Preliminary Report on a portion of the main Coast of British Columbia and adjacent islands, included in New Westminster and Nanaimo Districts, by O. E. Leroy. 1908.			
17260	ZOOLOGICAL MUSEUM, TRING. Novitates Zoologicae. A Journal of Zoology in connection with the Tring Museum. Vol. XVII. 1910.		No. 1035. The Coal Fields of Manitoba, Saskatchewan, Alberta, and Eastern British Columbia, by D. B. Dowling. 1909.			
17261	Do do Vol. XVIII. 1911. 2 vols. 8vo. London, 1910-12.	Presented	Nos. 980 and 1081. Reports on a portion of Algoma and Thunder Bay districts, Ontario, by W. J. Wilson, and on the Region lying North of Lake Superior between the Pic and Nipigon Rivers, Ontario, by W. H. Collins. 1909.			
	<i>Scotland.</i>		No. 32. Report on the Investigation of Electric Shaft Furnace, Domnarfvet, Sweden, &c., by Eugene Haanel. 1909.			
17348	GLASGOW UNIVERSITY. The Glasgow University Calendar, for the year 1912-13. 1 vol. 8vo. Glasgow, 1912.	Presented	No. 23. Report on the Iron Ore Deposits along the Ottawa (Quebec side) and Gatineau Rivers, by Fritz Cirkel. 1909.			
17095	HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND (Transactions of), with an Abstract of the Proceedings at Board and General Meetings, and the Premiums offered by the Society in 1911. Fifth Series. Vol. XXIII. 1 vol. 8vo. Edinburgh, 1911.	Presented	No. 59. Report of Analyses of Ores, Non-metallic Minerals, Fuels, &c., made in the Chemical Laboratories during the years 1906, 1907, 1908, arranged by F. G. Wait. 1909.			
17343	Do do 1912. Fifth Series. Vol. XXIV. 1 vol. 8vo. Edinburgh, 1912.	Presented	No. 1075. Preliminary Report on Gowanda Mining Division, district of Nipissing, Ontario, by W. H. Collins. 1909.			
15263	ROYAL SCOTTISH GEOGRAPHICAL SOCIETY. The Scottish Geographical Magazine. Vol. XXVI. 1910.		No. 1050. The Whitehorse Copper Belt, Yukon Territory, by R. G. McConnell. 1909. 1 vol. 8vo. Ottawa, 1906-9.	Presented		
17264	Do do Vol. XXVII. 1911. 2 vols. 8vo. Edinburgh, 1910-11.	Presented	17270	GEOLOGICAL SURVEY.		
17265	ROYAL SOCIETY OF EDINBURGH (Proceedings of the). Vol. XXX. November, 1909, to July, 1910.		No. 1064. Geology of an Area adjoining the East side of Lake Timiskaming, Quebec, by Morley E. Wilson. 1910.			
17266	Do do Vol. XXXI. November, 1910, to July, 1911. 2 vols. 8vo. Edinburgh, 1910-1912.	Presented	Nos. 55 and 1107. Joint Report of the Bituminous or Oilshales of New Brunswick and Nova Scotia, also on the Oil-shale Industry of Scotland. Part I. Economics. Part II. Geology. By R. W. Ellis. 1910.			
	<i>Ireland.</i>		No. 69. Chrysotile-Asbestos: its occurrence, exploitation, milling, and uses, by Fritz Cirkel. 2nd edition (enlarged). 1910.			
17267	ROYAL DUBLIN SOCIETY (The Scientific Proceedings of the). New Series. Vol. XII. 1 vol. 8vo. Dublin, 1909-10.	Presented	No. 93. Report on the Molybdenum Ores of Canada, by P. H. Walker. 1911. 1 vol. 8vo. Ottawa, 1910-11.	Presented		
	BRITISH DOMINIONS.		17273	HAMILTON SCIENTIFIC ASSOCIATION (Journal and proceedings of the). Sessions 1905-6 to 1909-10. Numbers XXII-XXVI. 1 vol. 8vo. Hamilton, 1906-10.	Presented	
	<i>Canada.</i>		17274	—Proceedings of the Jubilee Celebration of the . . . held at the Hamilton Conservatory of Music, November 8th, 1907. 1857-1907. 1 vol. 8vo. Hamilton, Canada, n.d.	Presented	
17272	CANADIAN ENTOMOLOGIST (The). Vols. XLI-XLII. 1909-10. 1 vol. 8vo. London, Ont., 1909-10.	Purchased	McGILL COLLEGE AND UNIVERSITY.			
17271	ENTOMOLOGICAL SOCIETY OF ONTARIO. (Thirty-seventh to Forty-second Annual Reports of the). 1906-1911. 1 vol. 8vo. Toronto, 1907-12.	Presented	17278	Annual Calendar. Session, 1910-1911. Bulletin of General Information (including full particulars regarding Matriculation in all Faculties and First Year Exhibitions in Arts). 1906. Do do 1908. Do do 1909. 1 vol. 8vo. Montreal, 1906-10.	Presented	
17268	GEOLOGICAL SURVEY. Memoirs. Nos. 1-7. 1 vol. 8vo. Ottawa, 1910.	Presented	McGILL UNIVERSITY.			
17269	GEOLOGICAL SURVEY. No. 923. Report on the Chibougamau Mining Region in the Northern Part of the Province of Quebec, by A. P. Low. 1905. No. 939. Preliminary Report on the Rossland, B.C., Mining District by R. W. Brock. 1906.		17275	Papers from the Department of Zoology, Nos. 1-2. Do do Chemistry and Mineralogy, Nos. 1-5. Do do Physics, Nos. 9-11. Do do Geology, Nos. 10, 12-18, 21-23. 1 vol. 8vo. Montreal, 1896-1907.	Presented	



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
MCGILL UNIVERSITY— <i>continued</i> .			<i>Ceylon.</i>		
17276	—Papers from the Department of Pathology, Nos. 1-4, 6-7.		17279	COLOMBO MUSEUM—Spolia Zeylanica. Vols. v-vii.	
	Do do Ophthalmology, No. 1.			1 vol. 8vo. Colombo, 1908-11.	Presented
	Do do Botany, Nos. 8-9.		<i>AFRICA.</i>		
	Do do Applied Science, No. 1.		<i>Cape of Good Hope.</i>		
	Do do Engineering, Nos. 4, 5, 6, 8.		17292	SOUTH AFRICAN MUSEUM (Annals of the).	
	Do do Classics, Nos. 1-3.			Vol. v.	
	Do do Philosophy, Nos. 1-4.		17293	Do do Vol. v.	
	1 vol. 8vo. Montreal, 1896-1903.	Presented		2 vols. 8vo. Capetown, 1906-9 and 1908-10.	Presented
17277	—Papers from the Department of Zoology, No. 3.		<i>Natal.</i>		
	Do do Geology, No. 11.		17294	NATAL MUSEUM. Catalogue of Rocks and Minerals.	
	Do do Engineering, Nos. 7 and 9.			1 vol. 8vo. Pietermaritzburg, 1909.	Presented
	1 vol. 4to. Montreal, 1901-3.	Presented	<i>Transvaal.</i>		
17353	DEPARTMENT OF MINES — MINES BRANCH. An Investigation of the Coals of Canada, with reference to their Economic Qualities: as conducted at the McGill University, Montreal, under the Authority of the Dominion Government. In six volumes, by J. B. Porter, E.M., D.Sc., and R. J. Darley, M.A., assisted by Theophile C. Denis, B.Sc., Edgar Stansfield, M.Sc., and a staff of special assistants. Vol. i.		17295	MINES DEPARTMENT Report of the Geological Survey for the years 1905-8.	
				1 vol. 4to. Pretoria, 1907-9.	Presented
7354	Do do Vol. ii.		<i>EGYPT.</i>		
	2 vols. 8vo. Ottawa, 1912.	Presented	INSTITUT EGYPTIAN.		
17327	ROYAL SOCIETY OF CANADA (Proceedings and Transactions of). Third series. Vol. v. Meeting of May, 1911.		17096	Bulletin. Cinquieme Serie. Tomes i-iv. 1907-1911.	
	1 vol. 8vo. Ottawa, 1912.	Presented	17097	Livre D'Or. Publie a l'occasion du Centenaire de la Fondation de l'Institut Egypte. L'Institut Egyptien, 6 Mai, 1859-5 Mai, 1899.	
<i>India.</i>				Do do Publie a l'occasion du Cinquantenaire de la fondation de L'Institut Egyptien, 6 Mai, 1859-5 Mai, 1899.	
17280	AGRICULTURAL RESEARCH INSTITUTE, PUSA. The Agricultural Journal of India. Vol. vi, Part 1.			Do do 7 Mai, 1909.	
	1 vol. 8vo. Calcutta, 1911.	Presented		1 vol. 8vo. Le Mans, Le Caire, 1899-1911.	Presented
17281	ASIATIC SOCIETY OF BENGAL. Journal and Proceedings. New Series. Vol. v. 1909.		17296	SERVICE DES ANTIQUITES. Annales. Index des tomes i-x.	
	1 vol. 8vo. Calcutta, 1910.	Presented		1 vol. 8vo. Le Caire, 1912.	Presented
7282	ASIATIC SOCIETY OF BENGAL. Memoirs of the. Vol. ii. 1907-1910.		<i>Sudan.</i>		
	1 vol. 4to. Calcutta, 1911.	Presented	17165	WELLCOME TROPICAL RESEARCH LABORATORIES AT THE GORDON MEMORIAL COLLEGE, KHARTOUM. Fourth Report of the. Volume A. Medical. Andrew Balfour, Director. Published for Department of Education, Sudan Government, Khartoum, 1911.	
7283	BOMBAY NATURAL HISTORY SOCIETY. The Journal of the. Vol. xx.		17141	Fourth Report of the. Vol. B. General Science.	
	1 vol. 8vo. Bombay, 1910-11.	Purchased	17166	Second Review of some of the Recent Advances in Tropical Medicine, Hygiene, and Tropical Veterinary Science. Being a supplement to the Fourth Report of the . . . by Andrew Balfour and R. G. Archibald, in collaboration with W. B. Fry and W. R. O'Farrell. Published for Department of Education, Sudan Government, Khartoum.	
4190	GEOLOGICAL SURVEY OF INDIA. Memoirs of the Palaeontologia Indica, being figures and descriptions of the Organic Remains procured during the progress of the . . . Series xv. Himalayan Fossils. Vol. iv. The Fauna of the Spiti Shales, by Victor Uhlig.			3 vols. 4to. London, 1911.	Purchased
7284			<i>West Indies.</i>		
	1 vol. 4to. Calcutta, 1903 and 1910.	Presented	17297	IMPERIAL DEPT. OF AGRICULTURE FOR THE WEST INDIES. West India Bulletin (The Journal of the). Vol. x-xi. 1909-10. 1 vol. 8vo. Barbados, 1910-11.	Presented
4191	GEOLOGICAL SURVEY OF INDIA. Memoirs of the Palaeontologia Indica, being figures and descriptions of Organic Remains procured during the progress of the . . . Series xv. Vol. v. Memoir Nos. 1-3.		<i>Straits Settlements.</i>		
7285			17201	ROYAL ASIATIC SOCIETY. STRAITS BRANCH. Journal, Nos. 56-60. December. 1910-December, 1911.	
	1 vol. 4to. Calcutta, 1906-8.	Presented		1 vol. 8vo. Singapore, 1910-11.	Purchased
7286	GEOLOGICAL SURVEY OF INDIA. Memoirs of the Palaeontologia Indica, being figures and descriptions of Organic Remains procured during the progress of the . . . Series xv. Vol. vi. Memoir Nos. 1-2.		<i>UNITED STATES OF AMERICA.</i>		
	1 vol. 8vo. Calcutta, 1908.	Presented	17172	AMERICAN ETHNOLOGY (Bureau of). Twenty-seventh Annual Report of the Bureau of American Ethnology to the Secretary of the Smithsonian Institution. 1905-1906.	
17287	GEOLOGICAL SURVEY OF INDIA (Records of the). Vols. xxxix-xl. 1910.			1 vol. 4to. Washington, 1911.	
	1 vol. 8vo. Calcutta, 1910.	Presented		Contains: The Omaha Tribe, by Alice C. Fletcher and Francis La Flesche (a member of the Omaha Tribe).	
17120	MADRAS FISHERIES BUREAU. Volume ii. Bulletin No. 6. Marine Fish-farming for India, by James Hornell, F.L.S.				
	1 vol. 8vo. Madras, 1911.	Presented			
17288	MADRAS GOVERNMENT MUSEUM. Bulletins iv-v. Anthropology.				
	1 vol. 8vo. Madras, 1901-7.	Presented			
17289	MEDICAL AND SANITARY DEPARTMENTS—Scientific Memoirs by Officers of the Medical and Sanitary Departments of the. Nos. 36-42.				
17290	Do do Nos. 43-47.				
	2 vols. 4to. Calcutta, 1909-11.	Presented.			



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
AMERICAN ETHNOLOGY (Bureau of)— <i>continued</i> :			17169	SMITHSONIAN INSTITUTION. Annual Report of the Board of Regents of the Operations, Expenditures, and Condition of the Institution for the year ending June 30, 1910. 1 vol. 8vo. Washington, 1911. Presented	
17084	Bulletin 44. Indian Languages of Mexico and Central America, and their Geographical Distribution, by Cyrus Thomas, assisted by John R. Swanton. Accompanied with a Linguistic Map.		17352	CARNEGIE INSTITUTION OF WASHINGTON. Papers from the Tortugas Laboratory. Vols. III-IV. 1910-1911. 1 vol. 8vo. Washington, 1910-11. Purchased	
17085	Bulletin 51. Antiquities of the Mesa Verde National Park: Cliff Palace, by Jesse Walter Fewkes. 2 vols. 8vo. Washington, 1911.		17148	—(Publication No. 131.) The Polynesian Wanderings: Tracks of the Migration Deduced from an Examination of the Proto-Samoan Content of Efite and other Languages of Melanesia. By William Churchill. 1 vol. 8vo. Washington, 1911. Purchased	
17298	BUREAU OF AMERICAN ETHNOLOGY. List of Publications of the, with index to Authors and Titles. 1906.		<i>California.</i>		
17299	Do do do 1910.		17380	LELAND STANFORD UNIVERSITY. Publications, University Series, Nos. 1-6. 1 vol. 8vo. Palo Alto, California, 1908. Presented	
17300	Archæologic Investigations in James and Potomac Valleys, by Gerard Fowke. 1894. 3 vols. 8vo. Washington, 1906-1910, and 1894.		17381	UNIVERSITY OF CALIFORNIA. Publications in American Archaeology and Ethnology. Vol. VIII. 1908-1910.	
17171	BUREAU OF FISHERIES. Bulletin. Vol. XXIX. 1909. George M. Bowers, Commissioner. 1 vol. 4to. Washington, 1911.		17382	Do Vol. IX. 1910-1911. 2 vols. 8vo. Berkeley, 1908-1911. Presented	
17540	—Report of the Commissioner of Fisheries for the Fiscal year 1910, and Special Papers. 1 vol. 8vo. Washington, 1911.		17383	Publications. Zoology. Vol. VI. 1908-11. 1 vol. 8vo. Berkeley, 1908-11. Presented	
UNITED STATES GEOLOGICAL SURVEY.			<i>Indiana.</i>		
17301	Twenty-seventh-Thirty-first Annual Reports, 1905-6-1910. 1 vol. 8vo. Washington, 1906-10.		DEPARTMENT OF GEOLOGY AND NATURAL RESOURCES.		
16419	Bulletins 381, 383, 385-387.		17107	Thirty-fifth Annual Report. 1910. 1 vol. 8vo. Indianapolis, 1911. Presented	
17302	Do 425-428. 1910.		<i>Michigan.</i>		
17303	Do 429-431. 1910-11.		MICHIGAN GEOLOGICAL AND BIOLOGICAL SURVEY.		
17304	Do 432-438. 1910-11.		17121	Publication 4. Biological Series 2. A Biological Survey of the Sand Dune Region of the South Shore of Saginaw Bay, Michigan. Prepared under the Direction of Alexander G. Ruthven. Chief Field Naturalist. Published as a part of the Annual Report of the Board of Geological and Biological Survey for 1910. 1 vol. 8vo. Lansing, Michigan, 1911. Presented	
17305	Do 439-441. 1910-11.		MICHIGAN GEOLOGICAL AND BIOLOGICAL SURVEY.		
17306	Do 442-445. 1910-11.		17122	Publication 5. Geological Series 3. The Late Glacial and Post Glacial Uplift of the Michigan Basin. Earthquakes in Michigan, by Wm. Herbert Hobbs. Published as a part of the Annual Report of the Board of Geological and Biological Survey for 1910. 1 vol. 8vo. Lansing, Michigan, 1911. Presented	
17307	Do 446-7, 449-451. 1911.		17153	Publication 7. Geological Series 5. Surface Geology of the Northern Peninsula of Michigan, with notes on Agricultural conditions and Water Power, by Frank Leverett. Published as a Part of the Annual Report of the Board of Geological and Biological Survey for 1911. 1 vol. 8vo. Lansing, Michigan, 1911. Presented	
17308	Do 452-460. 1911.		<i>New York.</i>		
17309	Do 461-5, 467-9. 1911.		NEW YORK STATE LIBRARY.		
17310	Do 472-480. 1911.		17384	Ninety-second Annual Report. 1909.	
17311	Do 481-3 and 486. 1911.		17385	Ninety-third Annual Report. 1910. 2 vols. 8vo. Albany, 1911. Presented	
17312	Do 487-490, 495. 1911.		NEW YORK STATE MUSEUM.		
17173	12 vols. 8vo. Washington, 1909-11.		17386	Sixty-third Annual Report for the year 1909, in 4 vols. Volume I, Report of the Director, 1909, and Appendix I.	
17174	Mineral Resources of the United States. Calendar year 1909. Part I. Metals. Do do Part II. Non-metals. 2 vols. 8vo. Washington, 1911.		17387	Vol. II. Appendixes 2-4. 2 vols. 8vo. Albany, 1911. Presented	
17175	Monographs of the United States Geological Survey. Vol. LII. The Geology of Lake Superior Region, by Charles Richard Van Hise and Charles Kenneth Leith. 1 vol. 4to. Washington, 1911.		17388	Volume III. Appendix 5.	
17313	Professional Papers Nos. 68 and 70. 1910-11		17389	Volume IV. Appendix 6. 2 vols. 4to. Albany, 1911. Presented	
17314	Do do 72-73. 1911. 1 vol. 4to. Washington, 1910-11.		<i>North Carolina.</i>		
17315	Water-supply Papers Nos. 250-252. 1910.		17117	NORTH CAROLINA GEOLOGICAL SURVEY. Vol. I. Corundum and the Peridotites of Western North Carolina, by Joseph Hyde Pratt, and Joseph Volney Lewis. 1 vol. 8vo. Raleigh, North Carolina, 1905. Presented	
17316	Do do 253-256. 1910-11.				
17317	Do do 257-8, 260-262. 1910-11.				
17318	Do do 263-268. 1910-11.				
17319	Water-supply Papers Nos. 269-270, 272. 1911. Presented				
17320	Do do 273-277. 1911. 4 vols. 8vo. Washington, 1910-11.				
17170	LIBRARY OF CONGRESS. Report of the Librarian of Congress and Report of the Superintendent of the Library Building and Grounds, for the Fiscal Year ending June 30, 1911. 1 vol. 8vo. Washington, 1911. Presented				
UNITED STATES NATIONAL MUSEUM.					
17374	Bulletin No. 50. Part. v.				
13524	Bulletin No. 53. Parts I-II.				
17375	Bulletin 71, pts. I and II. Bulletin 72.				
17376	Bulletins 73 and 74.				
17377	Bulletin 75.				
17378	Bulletin 76.				
17379	Bulletins 77 and 78. 7 vols. 8vo. Washington, 1905-1911. Presented				
17325	Report on the Progress and Condition of the United States National Museum for the year ending June 30th, 1911. 1 vol. 8vo. Washington, 1912.				
17086	Proceedings. Vol. 39. 1 vol. 8vo. Washington, 1911.				
17168	UNITED STATES NATIONAL MUSEUM Proceedings of the. Vol. 41. 1 vol. 8vo. Washington, 1911.				



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
17178	NORTH CAROLINA GEOLOGICAL AND ECONOMIC SURVEY. Volume II. The Fishes of North Carolina, by Hugh M. Smith. 1 vol. 4to. Raleigh, 1907.	Presented		MUSEE du CONGO—continued.	
	<i>Pennsylvania.</i>			Annales, Zoologie.	
	UNIVERSITY OF PENNSYLVANIA—DEPARTMENT OF ARCHÆOLOGY. (The Babylon Expedition of the).		17478	Ser. I, t. i, fasc. 4-6. 1899-1900.	
17124	Series A. Cuneiform Texts, edited by H. V. Hilprecht. Vol. VI, Pt. I. Babylonian legal and business documents from the time of the first dynasty of Babylon, chiefly from Sippar. By Hermann Ranke. 1906.		17479	I, ii, 2. 1902.	
17125	Do do Vol. VIII, Pt. I. Legal and Commercial Transactions. By Albert T. Clay. 1908.		17480	II, i. Okapia. 1907.	
17126	Do do Vols. XIV-XV. Documents from the temple archives of Nippur. By Albert T. Clay. 1906.		17481	II, i, fasc. 1-3. 1898-1899.	
17127	Do do Vol. XVII, Pt. I. Letters to Cassite kings from the temple Archives of Nippur. By Hugo Radau. 1908.		17482	III, i, 1-2. 1903-1905.	
17128	Do do Vol. XX, Pt. I. Mathematical, Metrological, and Chronological tablets from the temple library of Nippur. By H. V. Hilprecht. 1906.		17483	III, ii, 1. 1903.	
	5 vols. 4to. Philadelphia, 1906-8.	Presented	17484	III, iii, 1. 1904.	
17087	Series D. Researches and Treaties, edited by H. V. Hilprecht. Vol. I. The Excavations in Assyria and Babylonia, by H. V. Hilprecht. "Eckley Brinton Cox, Junior Fund."		17485	III, sec. i, t. i, fasc. I. 1905.	
	1 vol. Svo. Philadelphia, 1904.	Presented	17486	IV, t. i, fasc. I. 1905.	
	<i>Reprinted from the 7th edition of Hilprecht's "Exploration in Bible Lands during the 19th Century."</i>		17487	V, i, I. 1906.	
	<i>Wisconsin.</i>			10 vols. 4to. Bruxelles, 1898-1909.	Presented
	WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY.			<i>France.</i>	
17176	Bulletin No. XXI. Scientific Series No. 6. The Fossils and Stratigraphy of the Middle Devonian of Wisconsin, by Herdman F. Cleland.			ASSOCIATION FRANCAISE POUR L'AVANCEMENT DES SCIENCES.	
	1 vol. Svo. Madison, Wis., 1911.	Presented	17390	Compte rendu de la 7e session. Paris, 1878.	
17177	Bulletin No. XXII. Scientific Series No. 7. The Inland Lakes of Wisconsin. The Dissolved Gases of the Water and their Biological Significance, by Edward A. Birge and Chancey Juday.		17391	Do do 9e session. Reims, 1880.	
	1 vol. Svo. Madison, Wis., 1911.	Presented	17392	Do do 10e session. Alger, 1881.	
17133	Bulletin No. XXIII. Economic Series No. 14. Reconnaissance Soil Survey of Part of North Western Wisconsin, by Samuel Weidman, assisted by E. B. Hall and F. L. Musback.		17393	Do do 11e session. La Rochelle, 1882.	
	1 vol. Svo. Madison, Wis., 1911.	Presented	17394	Do do 14e session. Grenoble, 1885.	
	<i>Europe.</i>			Premiere partie Documents Officiels. Procès-verbaux.	
	<i>Austria.</i>		17395	Conferences de Paris. Compte rendu de la 16me session. Premiere partie. Documents Officiels. Procès-verbaux. Toulouse, 1887.	
17179	K. AKADEMIE DER WISSENSCHAFTEN. Denkschriften. Mathematisch-Naturwissenschaftliche Klasse. Band XXXVII.	Presented	17396	Compte Rendu de la 16me session. Seconde Partie. Notes et Memoires. Toulouse, 1887.	
	1 vol. 4to. Wien, 1912.		17397	Conferences des Paris. Compte Rendu de la 17me session. Premiere Partie. Documents Officiels. Procès-verbaux. Oran, 1888.	
	<i>Belgium.</i>		17398	Compte Rendu de la 17me session. Seconde Partie. Notes et Memoires. Oran, 1888.	
	MUSEE du CONGO.		17399	Conferences de Paris. Compte Rendu de la 18me session. Premiere Partie. Documents Officiels. Procès-verbaux. Paris, 1889.	
	Annales, Botanique.		17400	Compte Rendu de la 18me session. Seconde Partie. Notes et Memoires. Paris, 1889.	
17465	Ser. I, t. i, fasc. 1-2, 4, 6, 8. 1898-1902.		17401	Conferences de Paris. Compte Rendu de la 19me session. Premiere Partie. Documents Officiels. Procès-verbaux. Limoges, 1890.	
17466	II, i. 1899-1900.		17402	Conferences de Paris. Compte Rendu de la 20me session. Premiere Partie. Documents Officiels. Procès-verbaux. Marseille, 1891.	
17467	III, i, 1-2. 1901.		17403	Conferences de Paris. Compte Rendu de la 21e session. Premiere Partie. Documents Officiels. Procès-verbaux. Pau, 1892.	
17468	IV, 1902-1905.		17404	Compte Rendu de la 21me session. Seconde Partie. Notes et Extraits. Pau, 1892.	
17469	V, i. 1903-1906.		17405	Conferences de Paris. Compte Rendu de la 22me session. Premiere Partie. Documents Officiels. Procès-verbaux. Besancon, 1893.	
17470	V, ii. 1907-1908.		17406	Conferences de Paris. Compte Rendu de la 23e session. Premiere Partie. Documents Officiels. Procès-verbaux. Caen, 1894.	
17471	V, iii, 1-2. 1909-1910.		17407	Compte Rendu de la 23me session. Seconde Partie. Notes et Memoires. Caen, 1894.	
17472	V, 1. 1910.		17408	Compte Rendu de la 25me session. Seconde Partie. Notes et Memoires. Carthage (a Tunis), 1896.	
17473	VI, 1. 1904.		17409	Compte Rendu de la 26me session. Seconde Partie. Notes et Memoires. Saint-Etienne, 1897.	
	9 vols. 4to. Bruxelles, 1898-1910.	Presented	17410	Conferences de Paris. Compte Rendu de la 27me session. Premiere Partie. Documents Officiels. Procès-verbaux. Nantes, 1898.	
	Annales, Ethnographie et Anthropologie.		17411	Compte Rendu de la 27me session. Seconde Partie. Notes et Memoires. Nantes, 1898.	
17473a	Ser. III, t. i, fasc. I. 1909.		17412	Conferences de Paris. Compte Rendu de la 28me session. Premiere Partie. Documents Officiels. Procès-verbaux. Boulogne sur Mer, 1899.	
17474	III, ii, 1. Notes analytiques 1907.		17413	Compte Rendu de la 28me session. Seconde Partie. Notes et Memoires. Boulogne-sur-Mer, 1899.	
17475	III, ii, 1. Notes ethnographiques. 1911.			24 vols. Svo. Paris, 1879-1900.	Presented
17476	III, i, 1-2. 1902-1906.				
17477	III, i, 1. 1899.				
	5 vols. 4to. Bruxelles, 1899-1911.	Presented			



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
ASSOCIATION FRANCAISE POUR L'AVANCEMENT DES SCIENCES— <i>continued</i> .			<i>Germany.</i>		
17414	Conferences de Paris. Compte Rendu de la 29me session. Premiere Partie. Documents Officiels. Proces-verbaux. Paris, 1900.		17458	BAESSLER-ARCHIV. Beiträge zur Volkerkunde herausgegeben aus Mitteln des Baessler-Instituts, unter Mitwirkung der Direktoren der Ethnologischen Abteilungen des Königlichen Museums für Völkerkunde in Berlin. Redigiert von P. Ehrenreich. Bd. I und II. 1 vol. 4to. Leipzig und Berlin, 1911. Purchased.	
17415	Compte Rendu de la Paris 29me. session, Seconde Partie. Notes et Memoires. Paris, 1900.		17158	GEGENBAUR. Morphologisches Jahrbuch. Eine Zeitschrift für Anatomie und Entwicklungsgeschichte herausgegeben von Georg Ruge. Band XLIII. 1 vol. 8vo. Leipzig, 1911.	
17416	Conferences de Paris. Compte Rendu de la 30me session. Premiere Partie. Documents Officiels. Proces-verbaux.		GESELLSCHAFT "IRIS."		
17417	Compte Rendu de la 30me session. Seconde Partie. Notes et Memoires. Ajaccio, 1901.		17447	(1862 Founded as Entomologischer Verein "Iris." 1888 Gesellschaft "Iris.") Correspondence Blatt. Bd. I. 1884-1888. Continued as portion for Lepidoptera of the "Deutsche Entomologische Zeitschrift." Iris, Dresden . . . Deutsch Entomologische Zeitschrift herausgegeben von der Gesellschaft Iris zu Dresden in Verbindung mit der Deutschen Entomologischen Gesellschaft zu Berlin. Lepidopterologische Heft. (Fortsetzung des "Correspondenz-Blattes" des Entomologische Vereins "Iris"). Bd. II-III. 1889-1890. Bd. IV and V. Jahrg. 1891-1892. VI-VII. 1893-1894. VIII-IX. 1895-1896. X-XI. 1897-1898. XII-XIII. 1899-1900. XIV-XV. 1901-1902. XVI-XVII. 1903-1904. XVIII-XIX. 1905-1906. XX. 1907. 11 vols. 8vo. Dresden, 1889-1907. 11 Purchased.	
17418	Conferences de Paris. Compte Rendu de la 31me session. Premiere Partie. Documents Officiels. Proces-verbaux. Montauban, 1902.		"KOLONIE UND HEIMAT."		
17419	Compte Rendu de la 31me session. Seconde Partie. Notes et Memoires. Montauban, 1902.		17093	Eine Reise durch die Deutschen Kolonien Herausgegeben von der illustrierten Zeitschrift "Kolonie und Heimat." Band IV. Deutsch Südwest-Afrika. 2 vols. Obl. folio. Berlin, 1911. Purchased.	
17420	Conferences de Paris. Compte Rendu de la 32me session. Premiere Partie. Documents Officiels. Proces-verbaux. Angers, 1903.		17140	K. ETHNOGRAPHISCHES MUSEUM, Dresden. Publicationen, Bd. VII, X, XIII. Ms. translation into English by Ferdinand Knoblauch. 1 vol. Fol. Sydney, 1911. Purchased.	
17421	Compte Rendu de la 32me session. Seconde Partie. Notes et Memoires. Angers, 1903.		<i>Holland.</i>		
17422	Compte Rendu de la 33me session. Notes et Memoires. Grenoble, 1904.		17444	KON. NED. AARDRIJKSKUNDIG GENOOTSCHAP. De Zuidwest Nieuw-Guinea-Expeditie, 1904-5. 1 vol. 8vo. Leiden, 1908. Purchased.	
17423	Compte Rendu de la 34me session. Notes et Memoires. Cherbourg, 1905.		<i>Italy.</i>		
17424	Conferences de Paris. Compte Rendu de la 35me session. Premiere Partie. Documents Officiels. Proces-verbaux. Lyon, 1906.		17437	PALAEONTOGRAPHIA ITALICA. Memorie di Palaeontologia. Pubblicato per cura del Prof. Canavari. Vols. I-II. 1895-1896. Vol. III. 1897. 3 vols. 4to. Pisa, 1895-1898. Purchased	
17425	Compte Rendu de la 35me session. Notes et Memoires. Lyon, 1906.		<i>Russia.</i>		
17426	Conferences de Paris. Compte Rendu de la 36me session. Premiere Partie. Documents Officiels. Proces-verbaux. Reims, 1907.		KAUKASISCHE MUSEUM.		
17427	Compte Rendu de la 36me session. Notes et Memoires. Reims, 1907.		17134	Mittheilungen. Bd. I-II. 1897-1906.	
17428	Compte Rendu de la 37me session. Notes et Memoires. Clermont-Ferrand, 1908.		17135	Do III-IV. 1908-1909. 2 vols. 8vo. Tiflis, 1897-1909. Presented.	
17429	Compte Rendu de la 38me session. Notes et Memoires. Lille, 1909. 16 vols. 8vo. Paris, 1900-1910. Presented.		<i>Dutch East Indies.</i>		
SOCIETE LINNEENNE DE BORDEAUX.			17116	DEPARTMENT VAN LANBOUW IN NEDERLANDSCH-INDIE. Jaarboek, 1910. 1 vol. 8vo. Batavia, 1911. Purchased.	
17507	Bulletin D'Histoire Naturelle. Tome I. 1826.				
17508	Do do do II. 1827.				
17509	Do do do III. 1829.				
17510	Actes de la Societe Linneenne de Bordeaux. Tome IV. 1830.				
17511	Do do do V. 1832.				
17512	Do do do VI. 1838.				
17513	Do do do VII. 1825.				
17514	Do do do VIII. 1836.				
17515	Do do do IX. 1837.				
17516	Do do do X. 1838.				
17517	Do do do XI. 1839.				
17518	Do do do XII. 1841.				
17519	Do do do XIII. 1843.				
17520	Do do do XIV. 1845.				
17521	Do do do XV. 1847.				
Deuxieme Serie. Tome V.					
Actes de la Societe de Linneenne de Bordeaux.					
17522	Tome XVI. Deuxieme Serie. Tome VI. 1849.				
17523	Do Tome XVII. do Tome VII. 1851.				
17524	Do XVIII. do VIII. 1852.				
17525	Do XIX. do IX. 1853.				
17526	Do XX. do X. 1855.				
Actes de la Societe Linneenne de Bordeaux.					
17527	Tome XXI. Troisieme Serie. Tome I. 1856.				
17528	Do Tome XXII. do Tome II. 1858.				
17529	Do XXIII. do III. 1860.				
24 vols. 8vo. Paris and Bordeaux, 1826-1860. Purchased.					



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
PAMPHLETS.					
P 13 (132)	ANNANDALE (N.). Some barnacles of the Genus <i>Scalpellum</i> from Irish Seas. ( <i>Annals and Magazine of Natural History</i> , (8), vii, 1911.)	Presented.	P 19 (103)	HALL (T. S.). Reports on Graptolites. ( <i>Geol. Surv. Vic. Records</i> , iii, 2.)	
P 17 (75)	BAILEY (F. Manson). Contributions to the Flora of Queensland. ( <i>Queensland Agric. Journ.</i> , xxvii, 2, 1911.)		P 19 (104)	— On the systematic position of the species of <i>Squalodon</i> and <i>Zenagodon</i> described from Australia and New Zealand. ( <i>Roy. Soc. Vict. (n.s.)</i> , xxiii, 1911.)	
P 17 (76)	— Contributions to the Flora of Queensland. ( <i>Queensland Agric. Journ.</i> , xxvii, 3, 1911.)		P 20 (57)	— The age of the rocks at Marong and Dunolly. ( <i>Geol. Surv. Vic. Records</i> , iii, 2.)	
P 17 (77)	— Contributions to the Flora of Queensland. ( <i>Queensland Agric. Journ.</i> , xxvii, 4, 1911.)		P 20 (58)	— Notes on the geology of the country about Anglesea. ( <i>Roy. Soc. Vict., Proc. (n.s.)</i> , xxiii, 1910.)	Presented.
P 17 (78)	— Contributions to the Flora of Queensland. ( <i>Queensland Agric. Journ.</i> , xxvii, 5, 1911.)		P 6 (47)	HAY (J. G.). Something about Fishes. A brief account about fishes, what they are, their organs and functions. Svo., Perth, n.d.	Presented.
P 17 (79)	— Contributions to the Flora of Queensland. ( <i>Queensland Agric. Journ.</i> , xxvii, 6, 1911.)		P 20 (59)	HOWCHIN (Walter). Australian Glaciations. ( <i>Journal of Geology</i> , April-May, 1912.)	
P 17 (80)	— Contributions to the Flora of Queensland. ( <i>Queensland Agric. Journ.</i> , xxvii, 6, 1911.)	Presented.	P 20 (60)	— Mallala. ( <i>Trans. Roy. Soc. S.A.</i> , xxvi, 1912.)	
P 20 (47)	BARRELL (Joseph). Central Connecticut in the geologic past. ( <i>Wyoming Hist. Geol. Soc., Proc. Coll. xii.</i> )	Presented.	P 20 (61)	— Cambrian and Permo-Carboniferous Glaciation. ( <i>Austr. Assoc. Adv. Sci.</i> , xiii, Sydney, 1912.)	Presented.
P 8 (98)	CAMERON (P.). On parasitic Hymenoptera from the Solomon Islands, collected by Mr. W. W. Froggatt, F.L.S. ( <i>Proc. Linn. Soc. N.S.W.</i> , xxvii, 1911.)	Presented.	P 12 (65)	JOHNSTON (T. Harvey). On the occurrence of "Worm-nodules" in cattle—a summary. ( <i>Roy. Soc. Queensland Proc.</i> , xxiii, 1911.)	
P 20 (48)	CHAMBERLIN (Thos. C.). The future habitability of the earth. ( <i>Smithsonian Report</i> , 1910.)		P 12 (67)	— <i>Protecephalus gallardi</i> . A new cestode from the Black Snake. ( <i>Queensland Museum Annals</i> , No. 10, 1911.)	Presented.
P 20 (49)	— Diastrophism as the ultimate basis of correlation. ( <i>Journ. Geology</i> , xvi, 1909.)	Presented.	P 12 (66)	JOHNSTON (T. Harvey) and J. Burton Cleland. <i>Echinorhynchus pomatostomi</i> (n.sp.) A subcutaneous parasite of Australian birds. ( <i>Roy. Soc., N.S.W. Journ. and Proc.</i> , u.c., etc.)	Presented.
P 20 (59)	CHAMBERLIN (T. C.) and F. R. Moulton. The development of planetesimal hypothesis. ( <i>Science</i> , n.s. xxx, 1909.)	Presented.	P 19 (105)	LAMBE (Lawrence M.). On <i>Arctotherium</i> from the Pleistocene of Yukon. ( <i>Ottawa Naturalist</i> , xvi, 1911.)	Presented.
P 1 (19)	CHILTON (Charles). The biological relations of the Subantarctic Islands of New Zealand—Summary of results. ( <i>Phil. Inst. Canterbury. Subantarctic Islands of New Zealand</i> , 1909.)		P 23 (81)	MAWSON ANTARCTIC EXPEDITION. Instructions to the biologists.	Presented.
P 11 (47)	— The Crustacea of the Subantarctic Islands of New Zealand. ( <i>Phil. Inst. Canterbury. Subantarctic Islands of New Zealand</i> , 1909.)		P 21 (66)	PETTERD (W. F.). Notes on some additional minerals recently determined, with new localities for species known to occur in Tasmania.	Presented.
P 23 (86)	— The Subantarctic Islands of New Zealand and the history of their scientific investigation. ( <i>Phil. Inst. Canterbury. Subantarctic Islands of New Zealand</i> .)	Presented.	P 8 (99)	RAINBOW (W. J.). Australian entomological literature in 1910. ( <i>Zeitschr. für wissensch. Insektenbiol.</i> , vii, 1911.)	
P 12 (64)	COBB (N. A.). Nematodes, mostly Australian and Fijian. (Reprinted from the Macleay Memorial Volume by arrangement with the Linnean Society of New South Wales. <i>N.S.W. Dept. Agric., Misc. Public. No. 13.</i> )	Presented.	P 8 (100)	— Australian entomological literature for ( <i>Zeitschr. für wissensch. Insektenbiol.</i> , viii, 1912.)	Presented.
P 13 (133)	COLLETT (O.). Contributions to Ceylon malacology. (3) The terrestrial Mollusca of Ambagamuwa (Part II). ( <i>Read before the Royal Asiatic Society (Ceylon Branch)</i> , Nov. 25th, 1899.)	Presented.	P 19 (107)	SCHLESINGER (Günther). Studien über Stammesgeschichte der Proboscideier. ( <i>K.K. Geol., Reichsanstalt, Jahrb.</i> , 1912, lxii.)	Presented.
P 20 (51)	COTTON (C. A.). Notes on Wellington Physiography. ( <i>N. Zeal. Inst. Trans.</i> , xiv, 1911.)	Presented.	P 7 (13)	SHEARER (Cresswell). Walter de Morgan and H. M. Fuchs. Preliminary notice of the experimental hybridization of Echinoids. ( <i>Marine Biol. Assoc. Journ.</i> , ix, 1911.)	Presented.
P 23 (82)	CROOK (A. R.). The training of museum curators. ( <i>Proc. Amer. Assoc. Museums</i> , iv, 1910.)	Presented.	P 19 (108)	SHUFELDT (R. W.). Contributions to Avian Palaeontology. ( <i>The Auk</i> , xxx, 1913.)	Presented.
P 20 (52)	DANES (Jiri V.). Absence de traces glaciaires dans la Californie meridionale. ( <i>La Geographie</i> , xix, 1909.)		P 13 (134)	SMITH (Edgar A.). New Species of Acmæa from Bombay. ( <i>Proc. Malacol. Soc.</i> , ix, 1911.)	
P 20 (53)	— On the physiography of North-eastern Australia. ( <i>Roy. Bohem. Soc. Sci., Proc.</i> , 1911.)		P 13 (135)	— The Genus <i>Erato</i> . The young stage of <i>Humphreyia</i> . Thersites Hillieri. ( <i>Proc. Malacol. Soc.</i> , ix, 1910.)	
P 23 (83)	Geografie a politickohospodarske problemy Australskeho soustati. ( <i>Bulletin Bohemian Geographical Society</i> , 1910.)	Presented.	P 13 (136)	— On the generic name to be applied to the <i>Venus islandica</i> , Linn. ( <i>Proc. Malacol. Soc.</i> , x, 1912.)	Presented.
P 20 (54)	DAVID (T. W. Edgeworth). Notes on some of the chief tectonic lines of Australia. ( <i>Presidential address to the Royal Society of N.S. Wales</i> , 1911.)	Presented.	P 6 (50)	WAITE (Edgar R.). Vertebrata of the Subantarctic Islands of New Zealand. ( <i>Phil. Inst. Canterbury. Subantarctic Islands of New Zealand</i> , 1909.)	
P 19 (100)	ETHERIDGE (R.). Oolitic Fossils of the Greenough River District. ( <i>W.A. Geol. Surv., Bull.</i> 36, 1910.)	Presented.	P 6 (49)	Notes on New Zealand Fishes. ( <i>New Zealand Inst. Trans.</i> , xlii, 1909.)	
19 (102)	GREGORY (J. W.). The Fossil Echinoidea of Cyrenaica. ( <i>Quart. Journ. Geol. Soc.</i> , lxxii, 1911.)		P 6 (50)	A list of the known fishes of Kermadec and Norfolk Islands. ( <i>N.Z. Inst., Trans.</i> , xlii, 1909.)	Presented.
P 20 (55)	— The Geology of Cyrenaica. ( <i>Quart. Journ. Geol. Soc.</i> , lxxii, 1911.)		P 17 (74)	WHITE (C. T.). Botanic Notes, No. 1. ( <i>Queensland Naturalist</i> , i, 1911.)	Presented.
P 20 (56)	— The Structural and petrographic classifications of coast-types. ( <i>Scientia</i> , xi, 1912.)	Presented.	P 19 (106)	WIELAND (G. R.). Scientific Intelligence. III. Palaeobotany. ( <i>Amer. Journ. Sci.</i> , xlv, 1908.)	Presented.
			P 23 (84)	WILLIAMS (T. S. Beauchamp). Leprosy. A new view of its bacteriology and treatment. ( <i>Indian Medical Gazette, Suppl.</i> , May, 1911.)	Presented.



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
MAPS.					
304	VICTORIA. Geological Map of Victoria. Scale, 16 miles to 1 inch. Showing the areas over which auriferous reefs outcrop at the surface. 1909.	Presented.	302	NEW GUINEA (Admiralty Charts). Pacific Ocean. North-east Coast of New Guinea, with Bougainville, New Britain, New Ireland, Admiralty Islands, and off-lying reefs. 1907.	Purchased
305	VICTORIA. Geological Survey of Victoria. County of Gladstone. 1910.	Presented.	CAPE OF GOOD HOPE. Geological Map of the Province of the Cape of Good Hope. Published by the Geological Commission. Scale, 3.75 miles = 1 inch.		
310	SOUTH AUSTRALIA (Admiralty Charts). South Coast of Australia (Colony of S.A.). Cape Jervis to Rivoli Bay. 1901.		307	Sheet xi, 1911.	
311	Do do Rivoli Bay to Cape Otway. 1901		308	xiii, 1911.	
312	Do do Gulfs of St. Vincent and Spencer. 1881.	Presented.	309	xix, 1912.	Presented
306	WEST AUSTRALIA Geological Survey of West Australia. Topographical Map of Meekatharra. H. W. Talbot, Assistant Field Geologist. Scale, 40 miles = 1 inch. 1911.	Presented.	303	WISCONSIN. Wisconsin Geological and Natural History Survey. Map of Wisconsin showing Geology and Roads, by W. O. Hotchkiss and F. T. Thwaites. Scale, 6 miles = 1 inch. 2 sheets.	Presented.

[Two Photos.]

Sydney : William Applegate Gullick, Government Printer. —1913.

[1s. 6d.]



FORM OF BEQUEST FOR INSERTION IN WILLS.

---

I BEQUEATH to the Trustees of the Australian Museum, free of succession duty and without deduction, the

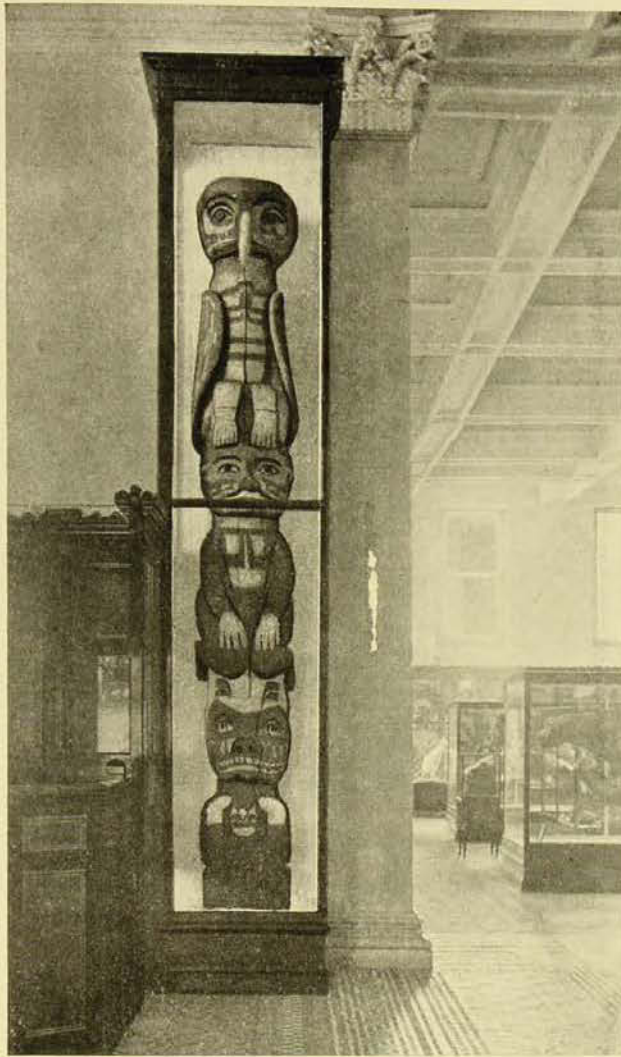
sum of \_\_\_\_\_ pounds, and, or all my Library, Books, Natural History Specimens,

Geological Specimens, Ethnological Specimens,\* to be applied by them for the benefit of the said Museum.

\* Delete the items not required.

NOTE.—Wills containing these bequests must be executed in strict accordance with the law.





PORTION OF TOTEM-POLE, "HERALDIC" OR "ANCESTRAL" COLUMN.

SALISH INDIANS, CAPE MUDGE, GEORGIA STRAIT, BRITISH COLUMBIA.

EACH Totem-pole tells some ancestral legend, and is practically the "badge" of a family or clan. They are seldom owned by an individual, but rather by a family or group. The carved figures may illustrate a legendary ancestral dream of exploit, which is the common property of the family, and is often believed to have been obtained by the said ancestor from the totem animal. Often the meaning of any given pole becomes complex, for marriages and important family records have been incorporated in additional carvings. These legends are in some cases but the traditions, folk-lore, and nursery tales of a primitive people.

These huge carvings, often from 50 to 60 feet high, are a conspicuous feature of any village on the North Pacific Coast of America, and many are so old that the Indians themselves have forgotten their meaning. They mark the area of the North Pacific Coast culture which extends from near Puget Sound along the coast to the Eskimo country in Southern Alaska. In some villages a pole stands in front of each dwelling. Totem-poles usually consist of cedar logs (in this case it is Oregon pine), as the local cedar forests are noted for their gigantic trees, the Indians being pre-eminently a wood-carving people. The carvings represent animals and birds, such as the bear, beaver, raven, frog, and fin-backed whale, also mythical monsters, the human face and figure. The art is symbolic and conventional, although rather realistic in appearance. The style of the Totem-pole varies more or less from tribe to tribe, and some are used as sepulchral receptacles, notably amongst the Haida and Tlingit Indians. They were usually erected during the great festivals commonly known as "Potlatches," a giving away of property as an investment, and for the purpose of gaining aristocratic position in the tribe.

On one of the poles is represented an eagle supported by a man, who is kneeling on a bear, between whose fore-paws is a human head reversed. The eagle, among the many birds held in superstitious and appreciative regard by the North American Indians, found an important place in their symbolic art. It was depicted on all their manufactures as well as on Totem-poles, House-and Grave-posts; many tribes even possessed eagle deities.