

1885-6.

NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(REPORT OF THE TRUSTEES FOR 1885.)

Presented to Parliament, pursuant to Act 17 Vict. No. 2, sec. 9.

TO HIS EXCELLENCY THE GOVERNOR AND EXECUTIVE COUNCIL.

The Trustees of the Australian Museum, incorporated by the Act 17 Victoria No. 2, have the honor to submit to your Excellency in Council, in accordance with the 9th section of that Act, this their thirty-second Annual Report.

1. The Museum has been, during the year 1885, as in previous years, open to the public from 10 until 5 o'clock (or in summer till 6 o'clock) daily, except on Mondays, when it is necessarily closed for the purpose of cleaning, and except on Sundays, when the hours are from 2 o'clock to 5. The largest attendance on any one day was on the 27th December, when 1,686 persons were registered at the doorway. The greatest Sunday attendance was 1,230, on the 7th June. The average daily number of visitors throughout the year was 264 on week-days and 844 on Sundays. The total for the year was 126,512.

2. The collections are still being increased, by means of purchases, exchanges, and donations; also by our collecting and dredging expeditions. A list of these additions, under their separate heads, will be found in Appendices V, VI, VII, VIII. Among these may be specially mentioned presentations in exchange from the Royal Museum at Florence; about 2,000 Indian Fishes from Dr. Day; three Whales, caught on the coast of New South Wales; and sundry specimens of Ethnology from the South Sea Islands, Casts of Natives of Micronesia and Polynesia, from Dr. Finsch, &c. A Compass and Collecting Jar belonging to Captain Cook, purchased by the Agent-General and presented by the Colonial Secretary, are not without interest.

3. Great alterations and improvements are still in progress, by the erection of additional glass cases. It is contemplated shortly to re-fit the old wing of the Museum with cases suitable for the Mineralogical collections, which will then be exclusively placed there. Rooms have been fitted up for the Osteological collections, which are now being removed thither from other parts of the building.

4. The want of sufficient space in the present building for the constantly-increasing number of exhibits is still felt as a serious drawback to the usefulness of the Institution. The Trustees are preparing a proposal for consideration by the Government, which, if adopted, will provide a useful and permanent extension now urgently required, at a comparatively small cost.

5. Catalogues, not only of the various collections in the Museum, but also of all branches of Australian Zoology, are still in course of preparation. The following new publications have been issued during the past year:—Catalogue of Hydroid Zoophytes; Catalogue of Echinodermata, Part I. Echini.; Catalogue of Minerals. Catalogues of Sponges and Medusæ are in the printer's hands; and it is hoped that, by the liberality of the Government, the continuation of "Scott's Lepidoptera" will soon be commenced.

6. The late expeditions to New Guinea, organized by the Geographical Society and by the late Sir Peter Scratchley, presented favourable opportunities for obtaining new and interesting specimens from that as yet unexplored island. The Trustees accordingly provided the scientific outfits, and obtained a portion of the specimens collected.

7. There has been no change in the Board during the year, by death or otherwise.
8. Annexed to this Report are the following Appendices :—

- I.—Annual Balance-sheet.
- II.—Attendance of Visitors.
- III.—Attendance of the Trustees.
- IV.—Work done by Taxidermist and Articulator.
- V.—Specimens collected.
- VI.—Specimens purchased.
- VII.—Exchanges.
- VIII.—Donations.
- IX.—Books acquired.

The Common Seal of the Museum is affixed by order of the Board, this
twentieth day of April, 1886.

S. SINCLAIR,
Secretary.

(L.S.) ALFRED STEPHEN,
Crown Trustee and Chairman.

APPENDIX I.
BALANCE-SHEET for the Year 1885.

	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.	
Balance from last year.....				2,802	8	2	Refunds to Colonial Treasurer							
From Colonial Treasurer—							Purchase of specimens				4	19	1	
Statutory endowment	1,000	0	0				" large mammals				740	11	9	
Parliamentary appropriation	5,900	0	0				" bottles.....				362	0	0	
				6,900	0	0	" show cases				223	5	8	
							" books				1,052	18	4	
For Guides and Catalogues sold.....				3	0	0	Furniture, &c.				444	0	5	
							Cataloguing				126	4	4	
							Travelling expenses and freights				517	10	4	
							Collection of specimens, chemicals, and spirits of wine.....				166	14	6	
							Searching for extinct remains.....				402	14	0	
							Expenses connected with Fisheries Exhibition	131	13	0	108	16	0	
							Expenses connected with Colonial and Indian Exhibition	150	17	11				
							Expenses connected with New Guinea Expeditions	38	12	1				
											321	3	0	
							Salaries—							
							Assistants	124	16	8				
							Curator	£600	0	0				
							Ticket-writer	200	0	0				
							Assistants (2).....	350	0	0	1,450	0	0	
							Night watchman ...	100	0	0				
							Sunday Services.....	200	0	0				
											1,574	16	8	
							Endowment Fund—							
							Salaries, Secretary, Taxidermist, &c.	1,625	5	8				
							General expenses, being for Taxidermists' materials, ironmongery, insurance, fuel, and sundries	198	3	4				
											1,823	9	0	
											£	7,869	3	1
							Balance					1,836	5	1
											£	9,705	8	2

8th March, 1886.

Examined and found correct.
W. J. STEPHENS.
ROBERT HUNT.

APPENDIX II.
ATTENDANCE OF VISITORS DURING 1885.

	Week-days.	Sundays.
January	9,363	3,058
February	5,247	3,172
March	6,043	4,198
April	8,276	3,225
May	6,695	4,077
June	6,841	4,195
July	6,717	3,892
August	5,604	4,522
September	5,931	3,331
October	5,965	2,911
November	6,140	3,754
December	9,772	3,583
	82,594	43,918
Total	126,512	
Attendance for 1884—		
Week-days	81,053	
Sundays	44,387	
Total	126,040	

APPENDIX III.
ATTENDANCE OF THE TRUSTEES DURING 1885.

Official Trustees.				
His Honor the Chief Justice	...	...	...	0
The Honorable the Colonial Secretary	...	...	...	0
The Honorable the Attorney-General	...	...	...	0
The Honorable the Colonial Treasurer	...	...	...	0
The Auditor-General	...	...	...	4
The Collector of Customs	...	...	...	0
The Surveyor-General	...	...	...	0
The Colonial Architect	...	...	...	0
The President of the Medical Board	...	...	...	8

Crown

Crown Trustee.

The Honorable Sir Alfred Stephen, G.C.M.G., C.B., M.L.C. ... 10

Elective Trustees.

J. C. Cox, Esq., M.D., F.L.S.	...	...	...	...	8
J. Belisario, Esq., D.D.S.	...	...	...	...	5
A. Liversidge, Esq., F.R.S., Professor of Chemistry and Mineralogy, Sydney University	...	...	...	...	9
The Honorable Jas. Norton, M.L.C.	...	...	...	...	10
Sir Alfred Roberts, M.R.C.S., Knt.	...	...	...	...	0
H. H. B. Bradley, Esq.	...	...	...	...	8
Robert Hunt, Esq., F.G.S.	...	...	...	...	13
Chas. Moore, Esq., F.L.S.	...	...	...	...	4
C. S. Wilkinson, Esq., F.G.S.	...	...	...	...	3
The Honorable P. G. King, M.L.C.	...	...	...	...	2
The Honorable W. A. Brodribb, M.L.C.	...	...	...	...	1
W. J. Stephens, Esq., M.A., Professor of Natural History, Sydney University	...	...	...	...	10
Number of Board Meetings during the year					18

APPENDIX IV.

SPECIMENS CURED AND MOUNTED AND OTHER WORK DONE BY THE TAXIDERMIST AND ARTICULATOR.

Mammalia.

14 specimens skinned and preserved.	13 specimens mounted.
9 specimens skinned, preserved, and mounted.	2 specimens grouped.
7 specimens skinned and preserved.	2 specimens restored.

Ornithology.

41 specimens skinned and preserved, and mounted.	146 specimens grouped.
54 specimens skinned and preserved.	52 specimens collected.
80 specimens mounted.	4 groups restored.
39 specimens restored.	

Reptilia.

1 specimen skinned and preserved.	1 specimen skinned, preserved, and mounted.
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Ichthyology.

11 specimens skinned and preserved.	12 specimens mounted.
11 specimens skinned, preserved, and mounted.	3 specimens restored.
12 specimens skinned and preserved.	

Osteology.

10 skeletons cleaned.	3 skeletons cured.
5 skeletons set up.	1 skeleton fleshed.

Moulds and Casts.

12 moulds and 21 casts made.

Photography.

172 negatives prepared.	676 photographs printed.
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APPENDIX V.

SPECIMENS COLLECTED BY MUSEUM EMPLOYEES.

Mammals :—2 species—4 specimens.
Birds :—152 species—427 specimens.
Fishes :—47 species—76 specimens.
Reptiles :—5 species—5 specimens.
Fossils :—Collections from Wellington Caves.
Ethnology :—40 specimens.

APPENDIX No. VI.

PURCHASES.

Mammals :—11 species—15 specimens.
Birds :—31 species—90 specimens.
Fishes :—926 species—1,074 specimens.
Insects :—A Collection of British Insects.
Lepidoptera :—51 species—79 specimens.
A Collection of Lepidoptera.
Mollusca :—84 species—86 specimens.
A Collection of Shells.

Echinodermata :—

Echinodermata :—3 Collections.
 Sponges :—A Collection of Sponges.
 Skeletons (mammals) :—2 species—2 specimens
 Minerals :—2 Collections.
 Chalcedony and marble table-top.
 Coins :—2 specimens.

Ethnological :—

	404 specimens from New Guinea.
2,638	" " New Britain.
203	" " Australia.
28	" " Marshall Islands.
42	" " Bouka Island.
13	" " Fiji.
8	" " Solomon Islands.
5	" " Caroline Islands.
5	" " Navigator Islands.
1	" " New Ireland.

DR. F. DAY'S PRIVATE COLLECTION, AS EXHIBITED AT THE INTERNATIONAL FISHERIES EXHIBITION, 1883 (IN PART).

Specimens of Fish from Indian Seas, purchased from Surgeon-General Francis Day, M.D., F.L.S., F.Z.S., &c.

Case II.

- Carcharias laticaudus.* M. and H. Bombay.
 " *acutus.* Rüpp. Madras.
 " *menisorrah.* M. and H. Calicut. (This specimen is the type of *C. malabaricus*, Day.)
Chiloscyllium indicum. Gmel. Malabar.
Stegostoma tigrinum. Gmel. Madras.
Rhynchobatus djeddensis. Forsk. Madras.
Rhinobatus halavi. Forsk. Cochin.
 " *granulatus.* Cuv. Madras.
 " *columnæ.* M. and H. Mangalore.
Astrape dipterygia. Bl. Madras.
Trygon uarnak. Forsk. Malabar.
 " *walga.* M. and H. Madras and Bombay.
 " *zugei.* M. and H. Madras.
Aetobatis narinari. Euphr. Madras.
Myrionodon waigiensis. Q. and G. Malay Archipelago.
Diploprion bifasciatum. C. and V. China.
Hapalogenys mucronatus. E. and S. China.
Pentapus porosus. C. and V. Malay Archipelago.
Heniochus macrolepidotus. Art. Madras.
Ephippus orbis. Bl. Madras.
Upeneoides bensasi. Schl. Madras.
 " *vittatus.* Forsk. Port Blair.
Apistus carinatus. Schn. Madras.
Gymnapistus dracæna. C. and V. Canara.
Minous monodactylus. Schn. Madras.
Nandus marmoratus. C. and V. Assam.
Plesiops nigricans. Rüpp. Andamans.
Polynemus plebeius. Brouss. Madras.
Trichiurus savala. C. and V. Sunderbunds and Bombay.
Caranx hippos. Linn. Madras.
 " *melampygus.* C. and V. Andamans.
 " *malabaricus.* Bl. Madras.
Chorinemus tala. C. and V. Andamus.
Trachynotus bailloni. Lacép. Karachi.
Psettus argenteus. Linn. Port Blair.
Equula edentula. Bl. Burmah.
 " *daura.* Cuv. Madras.
 " *insidiatrix.* Bl. Madras.
 " *brevirostris.* C. and V. Malabar.
Stromateus cinereus. Bl. Bombay.
Percis punctata. C. and V. Madras.
Polycaulus uranoscopus. Schn. Madras.
Gobiodon quinquestrigatus. C. and V. Nicobars.
Callionymus lineolatus. C. and V. Madras.
Trichogaster fasciatus. Schn. Assam.
Julis lunaris. Linn. Andamans.
Synaptura orientalis. Schn. Madras.
EXOCETUS OLIGOLEPIS. Blk. Malay Archipelago. (Type.)
 " *OXYCEPHALUS.* Blk. Malay Archipelago. (Type.)
Barbus tor. H.B. Quettah.
 " *micropogon mysorensis.* Jerd. Bowany R.
Barilius bola. H.B. N. W. Provinces.
Syngnathus serratus. Schl. Madras.
Gastrotokeus biaculeatus. Bl. Malay Archipelago.

Case III.

- Zygæna tudes.* Cuv. Madras.
 " *blochii.* Cuv. Bombay.
Narcine timlei. Bl. Madras.
Lutianus lineolatus. Rüpp. Madras.
AMBASSIS THOMASSI. Day. Malabar. (Type.)
Ambassis gymnocephalus. Lacép. Madras.
Apogon auritus, var. *polystigma.* Blk. Andamans.
 " *wassinkii.* Blk. Andamans.
 " *sangiensis.* Blk. Andamans.
Therapon quadrilineatus. Bl. Madras.
Diagramma griseum. C. and V. Scinde.
Pristipoma hasta. Bl. Bombay.
 " *guoraka.* Russ. Madras.
 " *stridens.* Forsk. Scinde.
Synagris japonicus. Bl. Madras.
Gerres lucidus. C. and V. Madras.
Pentaprion longimanus. Cant. Madras.
Pimelepterus waigiensis. C. and V. Ceram.
Cocotropus echinatus. Cant. Madras.
Choridactylus multibarbis. Rich. Madras.
Sciæna carutta. Bl. Madras.
 " *anca.* Bl. Madras.
Otolithus ruber. C. and V. Madras.
PSÆNES INDICUS. Day. Madras. (Type.)
Platycephalus carbunculus. C. and V. Madras.
Cepola abbreviata. C. and V. Andamans.
Atherina forskalii. Rüpp. Calcutta.
MUGIL BUCHANANI. Blk. Calcutta. (Co-type.)
Polycanthus cupanus. C. and V. Bowany R.
Trichogaster chuna. H.B. Debrooghur.
 " *lalius.* H.B. Calcutta.
 " *fasciatus.* Schn. Assam.
POMACENTRUS LABIATUS. Day. Andamans. (Type.)
Pomacentrus punctatus. Q. and G. Andamans.
GLYPHIDODON LEUCOPLEURA. Day. Andamans (Type.)
 " *SINDENSIS.* Day. (Type.)
Glyphidodon antjerius. C. and V. Andamans.
HELIASTES XANTHOCHIR. Blk. Malay Archipelago. (Co-type.)
Heliastes lepidurus. C. and V. Andamans.
Psettodes erumei. Schn. Madras.
Synaptura zebra. Bl. Bombay.
EXOSTOMA STOLICZKÆ. Day. Indus. (Type.)
Labes dussumieri. C. and V. Malabar.
BARBUS THOMASSI. Day. Canara. (Type.)
Barbus chrysopoma. C. and V. Cutch.
Perilampus atpar. H.B. Orissa.
ENGRAULIS ENCRASIOLOIDES. Blk. Amboina. (Co-type.)
Clupea tembang. Blk. Malay Archipelago. (Type of *C. gibbosa*, Blk.)
CLUPEA CLUPEOIDES. Blk. Malay Archipelago. (Co-type.)
 " *BRACHYSOMA.* Blk. Amboina. (Co-type.)
 " *KUNZEL.* Blk. Amboina. (Co-type.)
Corica soborna. H.B. Orissa.
PELLONA LÖEVENIL. Blk. Amboina. (Co-type.)
Elops saurus. Linn. Madras.
Murena thyrsoides. Rich. Batavia.
 " *polyuranodon.* Blk. Malay Archipelago.
Amphipneustes euchia. H.B. Calcutta.
Doryichthys cuneus. H.B. Ganjam.
Ichthyocampus carce. H.B. Calcutta.
Balistes maculatus, var. *oculatus.* Blk. Malay Archipelago.
 " *aculeatus.* Linn. Malay Archipelago.
Ostracion nasus. Bl. Amboina.
Tetrodon valentini. Blk. Amboina.
 " *stellatus* var. *lineatus.* Bl. Madras.
Capros aper. Linn. Devonshire.
Scomber scomber. Linn. Devonshire.
Labrus maculatus. Bl. Devonshire.
 " *mixtus.* Linn. Devonshire.
Gadus pollachius. Linn. Devonshire.
 " *luscus.* Linn. Devonshire.
Carassius vulgaris. Nordm. Thames at Richmond.
Chaetodon striatus. Linn. Tropical America.

APPENDIX VII.
EXCHANGES.

Received from—	Sent to—
	Canterbury Museum, Christchurch.
Aptornis bones.	Mollusca :—118 species—389 specimens. Birds :—12 species—18 specimens.
	Mr. James Dall, New Zealand.
Birds :—6 species—6 specimens. Mollusca :—Collection of. Fossils :—Collection. Ethnology :—5 specimens.	Birds :—26 species—29 specimens.
	Royal Museum, Brussels.
Fossils :—Collection of Casts. Mammalian remains (European.)	
	Mr. Felix Ancey, Marseilles.
Coleoptera :—Collection of.	Coleoptera :—32 species—61 specimens.
	Professor Parker, London.
Books :—Several of the Author's recent Publications.	Mammals :—14 species—23 specimens (in spirits.)
	Zoological Society, London.
Skeletons :—As received in 1881.	Reptiles (alive) :—5 species—7 specimens.
	Indian Museum, Calcutta.
Lepidoptera :—Collection of Butterflies.	Echinodermata :—24 species—63 specimens.
	Propaganda Museum, Rome.
Antiquities of Ancient Rome (promised).	Mammals :—6 species—6 specimens. Birds :—30 species—30 specimens. Mollusca :—111 species—314 specimens. Minerals :—20 specimens.
	Canadian Commission (Fisheries Exhibition).
Fishes :—17 species—39 specimens.	Birds :—48 species—50 specimens.
	Straits Settlement's Commission (Fisheries Exhibition).
Fishes :—88 species—96 specimens. Mollusca :—3 species—3 specimens. Crustacea :—3 species—15 specimens.	Mammals :—14 species—14 specimens. Birds :—63 species—63 specimens.
	Newfoundland Commission (Fisheries Exhibition).
Mammals :—3 species—3 specimens. Fishes :—40 species—174 specimens.	Mammals :—16 species—16 specimens. Birds :—62 species—63 specimens.
	Chilian Commission (Fisheries Exhibition).
Fishes :—3 species—18 specimens. (See 1884 Report.)	Mammals :—17 species—17 specimens. Birds :—62 species—64 specimens.
	Shanghai Museum.
Birds :—Collection (en route). Mollusca :—Collection (en route).	Mammals :—3 species—4 specimens. Birds :—69 species—75 specimens.
	Museum of Archaeology, Cambridge.
Ethnological :—61 specimens.	Ethnological :—198 specimens.
	Tasmanian Museum, Hobart.
Collection of Fishes in 1884.	Birds :—31 species—39 mounted specimens.
	Dr. C. Lumholtz, Christiana.
Fishes :—Collection (promised).	Mammals :—1 species—1 specimen. Skeletons :—2 species—2 specimens.
	Professor G. O. Sars, Christiana.
Books :—Norwegian Zoological Literature (promised).	Books :—Aust. Mus. Catalogue, &c.
	Professor Giglioli, Royal Museum, Florence.
Mammals :—27 species—33 specimens. Birds :—50 species—57 specimens. Fishes :—58 species—176 specimens. Reptiles :—27 species—39 specimens.	Ethnological :—39 specimens.

Received from—	Sent to—
Melbourne Exhibition Aquarium.	
Mammals :—1 specie—1 specimen (Hippopotamus.)	Ethnological :—77 specimens.
Mr. George Potts, Rockhampton.	
Minerals :—Collection of.	Minerals :—30 specimens.
Reptiles :—Small collection.	
Mr. D. A. Porter, Tamworth.	
Minerals :—22 specimens.	Specimen holders and pins.
Mr. James R. Chisholm, Townsville.	
Ethnological :—Collection of Boomerangs.	Books.
Mr. Robert Grant, Lithgow.	
Birds :—5 species—5 specimens.	Birds :—6 American birds.
Mr. Percy W. Broomfield, Victoria.	
Fossils :—Collection of shells.	Mollusca :—54 species—122 specimens.
Dr. Steindachner, Royal Museum, Vienna.	
Collection of fishes and reptiles (part received).	Fishes :—75 species—146 specimens.
	Sponges :—7 species—8 specimens.
	Echini :—9 species—35 specimens.
Mr. P. Bouvier, Marseilles.	
Mollusca :—Collection of Shells.	Mollusca :—54 species—191 specimens.
Adelaide Museum.	
Fishes :—Collection of.	Fishes :—4 species—4 specimens.
Mr. Caleb Thomas, Victoria.	
Minerals :—Small collection of important specimens.	Minerals :—80 specimens.
Mr. J. Dalgleish, Edinburgh.	
Birds' Nests :—4 specimens.	Birds' Eggs :—Collection of Australian.
Birds' Eggs :—16 specimens.	
National Museum, Melbourne.	
Fish :—1 species—1 specimen <i>Orthogoriscus</i> sp.	Echinodermata :—7 species—7 specimens.
Sponges :—5 species—5 specimens.	Crustacea :—12 species—12 specimens.

APPENDIX VIII.

DONATIONS.

Specimen.	Donor.
<i>Mammals.</i>	
2 <i>Phalangista vulpina</i> ...	The N.S. Wales Zoological Society.
1 <i>Macacus</i> sp. ...	
1 <i>Ursus malayensis</i> (juv.) ...	
1 <i>Viverra civetta</i> ...	
1 <i>Agouti</i> ...	
1 <i>Sphingurus insidiosus</i> ...	
1 <i>Vulpes vulgaris</i> ...	
1 <i>Sarcophilus ursinus</i> ...	
1 <i>Phascogale cinereus</i> ...	
2 <i>Mus rattus</i> ...	
1 <i>Phascogale penicillata</i> ...	Mr. George Relph.
1 " " ...	Miss Ramsay.
2 <i>Dasyurus viverrinus</i> ...	Mr. John Lackey.
1 " " ...	Mr. James Hook.
1 <i>Petrogale penicillata</i> ...	Masters Jones.
1 <i>Hydromys chrysogaster</i> ...	Mr. M. A. Stewart.
1 " <i>leucogaster</i> ...	Mr. W. Cheyne.
1 <i>Acrobates pygmaea</i> ...	Mr. David Ward.
1 <i>Echidna aculeata</i> ...	Mr. Brown.
1 " <i>hystrix</i> ...	Mr. H. W. Blick.
1 " " ...	Mr. J. M'Nab.
1 " <i>setosa</i> ...	Miss L. Cooke.
1 <i>Harpyia cephalotes major</i> (New Guinea) ...	Mr. W. R. Riley.
	Dr. Luther, R.N.

Specimen.										Donor.
Mammals—continued.										
1	Tachyglossus	aculeatus	...	...	...	...	...	...	...	Mr. J. A. Fitzhardinge.
1	Scotophilus	morio	...	...	...	...	...	...	...	Mrs. Walsh.
1	Podabrus	sp.	...	...	...	...	...	...	...	Mr. E. H. Palmer.
1	"	crassicaudatus	...	...	...	...	...	...	...	Mr. C. S. Cadell.
1	Ornithorhynchus	anatinus	...	...	...	...	...	...	...	Mr. G. J. F. Frankland.
1	Dasyurus	maculatus	...	...	...	...	...	...	...	Dr. J. C. Cox.
1	Lepus	cuniculus	...	...	...	...	...	...	...	Miss Hall.
Birds.										
2	Cygnus	olor	...	...	...	...	...	...	...	The N.S. Wales Zoological Society.
2	Atagen	minor	...	...	...	...	...	...	...	
1	Casarca	tadornoides	...	...	...	...	...	...	...	
1	Strix	novæ-hollandiæ	...	...	...	...	...	...	...	
1	Struthio	camelus	...	...	...	...	...	...	...	
1	Casuarus	bennettii	...	...	...	...	...	...	...	Dr. A. Bowman.
1	Anas	galerita	...	...	...	...	...	...	...	
1	Chibia	bracteata	...	...	...	...	...	...	...	
1	Ninox	maculata	...	...	...	...	...	...	...	
1	Casarca	tadornoides	...	...	...	...	...	...	...	
1	Sula	australis	...	...	...	...	...	...	...	Dr. Roth.
1	Dromaius	novæ-hollandiæ	...	...	...	...	...	...	...	Dr. Ward.
1	Cygnus	olor (young)	...	...	...	...	...	...	...	Dr. W. Williams.
1	Eurystomus	pacificus	...	...	...	...	...	...	...	Dr. E. Sinclair.
1	Psophodes	crepitans	...	...	...	...	...	...	...	
1	Platycercus	eximius	...	...	...	...	...	...	...	
1	Myzantha	garrula	...	...	...	...	...	...	...	
1	Geobasileus	chrysorrhœa	...	...	...	...	...	...	...	
1	Pardalotus	assimilis	...	...	...	...	...	...	...	Dr. Fiaschi.
1	Petroeca	leggii	...	...	...	...	...	...	...	
1	Ptilonorhynchus	holosericeus	...	...	...	...	...	...	...	
1	Cacatua	galerita	...	...	...	...	...	...	...	
1	Myiagra	plumbea	...	...	...	...	...	...	...	
1	Strepera	graculina	...	...	...	...	...	...	...	Mr. J. A. Thorpe.
1	Graucalus	melanops	...	...	...	...	...	...	...	
1	Pachycephala	gutturalis	...	...	...	...	...	...	...	
1	Cacatua	galerita	...	...	...	...	...	...	...	
1	"	eos...	...	...	...	...	...	...	...	
1	"	ducorspii	...	...	...	...	...	...	...	Mr. C. Harris.
1	Lestris	catarrhactes	...	...	...	...	...	...	...	
1	Phasianus	sp. (Hybrid)	...	...	...	...	...	...	...	
1	Dicrurus	bracteatus	...	...	...	...	...	...	...	
1	Podargus	strigoides	...	...	...	...	...	...	...	
1	Agapornis	roseicollis	...	...	...	...	...	...	...	Miss Patterson.
1	Haliastur	indicus	...	...	...	...	...	...	...	
1	"	(African)	...	...	...	...	...	...	...	
1	Psephotus	hæmatonotus (albino)	...	...	...	...	...	...	...	
1	Nycticorax	caledonicus	...	...	...	...	...	...	...	
1	Chibia	bracteata	...	...	...	...	...	...	...	Mr. John Dyason.
1	Corvus	australis (albino)	...	...	...	...	...	...	...	
1	Rallus	pectoralis	...	...	...	...	...	...	...	
1	Pomatostomus	temporalis (young albino)	...	...	...	...	...	...	...	
1	"	superciliosus	...	...	...	...	...	...	...	
1	Platycercus	barnardii	...	...	...	...	...	...	...	Mr. John Shinger.
1	Eulabes	religiosa	...	...	...	...	...	...	...	
2	Gallus	sonneratii	...	...	...	...	...	...	...	
2	Terpsiphone	paradisea	...	...	...	...	...	...	...	
1	Pitta	concinna	...	...	...	...	...	...	...	
1	Zosterops	flava	...	...	...	...	...	...	...	Mr. J. R. C. Sinclair.
1	Megalaima	sp.	...	...	...	...	...	...	...	
1	Halcyon	sanctus	...	...	...	...	...	...	...	
1	Astur	novæ-hollandiæ	...	...	...	...	...	...	...	
1	Artamus	superciliosus	...	...	...	...	...	...	...	
1	Astur	approximans	...	...	...	...	...	...	...	Hon. J. Franklyn.
1	Pelicanus	conspicillatus	...	...	...	...	...	...	...	
1	Strix	delicatulus	...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	Mr. J. B. Dalhanty.
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			...	...	...	...	...	...	...	Mr. F. Ratte.
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			...	...	...	...	...	...	...	Director, Botanic Gardens.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	Mr. J. Dyason.
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			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	Mr. George Thom.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	Mr. Palmer.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	Dr. Luther, R.N.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	Mrs. W. M. Onslow.
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			...	...	...	...	...	...	...	Mr. Robinson.
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			...	...	...	...	...	...	...	Mr. D. J. Pearson.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	Mr. Alfred Stewart.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	
Reptiles and Amphibians.										
1	Acanthophis	antarctica	...	...	...	...	...	...	...	N.S.W. Zoological Society
1	Morelia	variegata	...	...	...	...	...	...	...	
1	Diemenia	superciliosa	...	...	...	...	...	...	...	
1	"	"	...	...	...	...	...	...	...	
1	"	"	...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	Mr. George Relph.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	Mr. Buchanan.
			...	...	...	...	...	...	...	
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			...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	Mr. James Anderson.
			...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	
			...	...	...	...	...	...	...	

Specimen.								Donor.
<i>Reptiles and Amphibians—continued.</i>								
1	Diemenia	olivacea	...	...	...	...	...	Mr. J. G. R. Fry.
1	"	" and eggs	...	...	...	...	...	Mr. Walter Black.
1	Hoplocephalus	curtus	...	...	...	...	...	Mr. A. Dumbrell.
1	"	variegata	...	...	...	...	...	
1	"	curtus	...	...	...	...	...	Mr. E. S. Reubens.
1	Morelia	variegata	...	...	...	...	...	
1	Hoplocephalus	curtus	...	...	...	...	...	Mr. Cadell.
1	"	(juv.)	...	...	...	...	...	Mr. J. McCoey.
1	"	variegatus	...	...	...	...	...	Mr. Edwards.
1	"	sp.	...	...	...	...	...	Mr. W. H. Corkhill.
1	"	"	...	...	...	...	...	Mr. John Fischer.
2	Pseudechis	porphyriaceus	...	...	...	...	...	
3	Grammatophora	barbata	...	...	...	...	...	Mr. James Morton.
2	Pseudechis	porphyriaceus	...	...	...	...	...	Mr. R. J. McKenzie.
2	Dendrophis	punctulata	...	...	...	...	...	Mr. J. R. McNab.
1	"	"	...	...	...	...	...	Mr. A. W. Howell.
1	Acanthophis	antarctica	...	...	...	...	...	Mr. G. Reed.
1	"	"	...	...	...	...	...	Mr. J. Watt.
1	Vernicella	annulata	...	...	...	...	...	
1	"	"	...	...	...	...	...	Mr. G. R. Johnstone.
1	Morelia	spilotes	...	...	...	...	...	Mr. R. Ray.
1	"	"	...	...	...	...	...	Mr. A. McGrath.
1	Crotalis	duressus	...	...	...	...	...	Dr. Carl Fischer.
5	Typhlops	Ruppelli	...	...	...	...	...	Mr. G. W. Oldham.
1	Grammatophora	barbata	...	...	...	...	...	
1	Pygopus	lepidopodus	...	...	...	...	...	Mr. J. G. Matthew.
1	"	"	...	...	...	...	...	Mr. H. Watt.
1	"	"	...	...	...	...	...	Mr. G. Brennard.
1	"	"	...	...	...	...	...	Mr. G. Sheather.
1	"	"	...	...	...	...	...	Mr. J. Mezlin.
1	Tropidolepisma	rugosus	...	...	...	...	...	Mr. J. L. Brown.
1	Grammatophora	barbata	...	...	...	...	...	Mr. A. J. Wilson.
2	Phyllurus	platurus	...	...	...	...	...	Mr. Thomas Jones.
1	"	"	...	...	...	...	...	Mr. J. H. Cooper.
1	Lialis	punctatula	...	...	...	...	...	Dr. E. Sinclair.
2	Trachydosaurus	rugosus	...	...	...	...	...	Mr. C. S. Wilkinson.
1	Hydrosaurus	varius	...	...	...	...	...	Mr. R. Moore.
1	Cyclodus	gigas	...	...	...	...	...	Mr. J. V. Menzies.
<i>Fishes.</i>								
1	Belone	annulata	...	...	...	...	...	Captain Sinclair.
1	Trygon	pastinaca	...	...	...	...	...	Mr. W. Firth.
1	"	"	...	...	...	...	...	Mr. W. Proctor.
1	Histiogaster	labiosus	...	...	...	...	...	Dr. J. C. Cox.
1	Cossyphus	unimaculatus	...	...	...	...	...	
2	Opisthognathus	jacksoniensis	...	...	...	...	...	Mr. G. L. Goodman.
2	Anthias	longimanus	...	...	...	...	...	
1	Odax	richardsonii	...	...	...	...	...	Mr. H. Cadell.
1	Latris	ramsayi	...	...	...	...	...	Inspector Seymour.
1	Plectropoma	annulatum	...	...	...	...	...	Mr. H. D. Morgan.
2	Hippocampus	novæ-hollandiæ	...	...	...	...	...	Mr. H. Ireland.
1	Syngnathus	cinctus	...	...	...	...	...	Mr. W. Rogerson.
1	Hypeneoides	sp.	...	...	...	...	...	Mr. C. Windeyer.
1	Exocoetus	speculiger	...	...	...	...	...	Mr. George Humphrey.
1	Plesiops	bleekeri	...	...	...	...	...	Mr. James Naylor.
1	"	"	...	...	...	...	...	Mr. G. Mansell.
1	Dicotylichthys	maculatus	...	...	...	...	...	Mr. Tarplee.
1	Galaxias	sp.	...	...	...	...	...	Mr. G. L. Goodman.
1	Syngnathus	sp.	...	...	...	...	...	Mrs. Tipper.
1	Ostracion	lenticularis	...	...	...	...	...	Mr. G. H. Barrow.
1	"	"	...	...	...	...	...	A Fisherman
1	Cristiceps	sp.	...	...	...	...	...	Mr. H. Smithurst.
1	Tetrodon	sceleratus	...	...	...	...	...	
1	Petroscirtes	wilsoni	...	...	...	...	...	Mr. Heany.
1	Odax	richardsonii	...	...	...	...	...	
1	Callionymus	calauropomus	...	...	...	...	...	Mr. H. Smithurst.
1	Therapon	theraps	...	...	...	...	...	
1	Carcharias	sp.	...	...	...	...	...	Mr. Heany.
1	Caranx	trachurus	...	...	...	...	...	
1	Scorpius	æquipinnis	...	...	...	...	...	Mr. Heany.
1	Tetrodon	hypsilogenion	...	...	...	...	...	
1	Rhina	squatina	...	...	...	...	...	Mr. Heany.

Specimen.	Donor.
<i>Fishes—continued.</i>	
1 <i>Antennarius striatus</i> ...	Mr. Thomas Temperly.
5 <i>Echineis naucrates</i> ...	
3 <i>Chaetodon strigatus</i> ...	
2 <i>Monacanthus</i> , sp. ...	
1 <i>Petroscirtes cristiceps</i> ...	
1 <i>Gobius</i> sp. ...	
1 <i>Pataecus fronto</i> ...	
9 <i>Zygæna</i> sp. ...	
3 <i>Mugil</i> sp. ...	
1 <i>Clupea sundaica</i> ...	
1 <i>Syngnathus</i> sp. ...	Mr. H. Newcombe.
1 <i>Centriscus japonicus</i> ...	
1 <i>Mugil</i> sp. ...	Fisheries Commission.
2 <i>Monocanthus ayraudi</i> ...	
3 <i>Salmo fario</i> ...	Mr. Andrew Brown.
1 <i>Chilodactylus fuscus</i> ...	Mr. R. L. Eames.
1 " <i>macropterus</i> ...	Messrs. Eames
2 <i>Ostracion</i> sp. ...	Mr. Young.
1 <i>Dactylopterus orientalis</i> ...	Captain Braithwaite.
1 <i>Ophichthys</i> sp. ...	
1 <i>Cristiceps</i> sp. ...	Dr. M'Kinlay.
1 <i>Pterois zebra</i> ...	
1 <i>Carassius vulgaris</i> ...	Hon. G. R. Dibbs.
1 <i>Trygonorhina fasciata</i> ...	Mr. W. T. Vigers.
1 <i>Eleotris</i> sp. ...	Mr. Davenport.
1 <i>Coris</i> (sp. nov.) ...	Mr. G. Bellington.
1 <i>Tetrodon</i> sp. ...	Mr. H. Fischer.
<i>Insects.</i>	
1 <i>Extatosoma tiaratum</i> ...	Miss M'Gillivray.
1 " " ...	Mr. Alfred Saltea.
1 " " ...	Mr. J. G. Tressider.
2 <i>Lamprima latreillei</i> ...	Mr. A. Spring.
1 " " ...	Editor, <i>Town & Country Journal</i> .
1 <i>Chalepteryx collesi</i> and two cocoons ...	Dr. W. F. Mackenzie
1 " " ...	Mr. Ryce.
1 " " ...	Mr. G. Moore.
1 <i>Schizorrhina australis</i> ...	Mr. Walter Black.
1 <i>Dynastes</i> sp. ...	
1 <i>Phasma typhon</i> ...	Mr. Fitzhardinge.
1 " " ...	Mr. F. Laurence.
2 " sp. ...	Rev. W. Wyatt Gill.
1 " " ...	Mr. Cabesan.
1 " " ...	Mr. Dash.
1 " " ...	Mr. F. Law.
1 <i>Lepidopterous larvae</i> , attacked by fungus (<i>Sphæria</i>) ...	Mr. C. W. Cheeseborough.
1 <i>Aphrophoridae</i> ...	Mr. F. Ratte.
1 <i>Diadoxus erythrurus</i> (larva) ...	Mr. A. Roxburgh.
1 <i>Orthopteron</i> sp. and eggs ...	
1 <i>Grillotalpa</i> sp. ...	Mr. David Lock.
1 <i>Chœrocampa scrofa</i> ...	Mr. E. H. Dawson.
25 <i>Coleoptera</i> ...	Mr. Woolrych.
4 <i>Hymenoptera</i> ...	
2 <i>Orthoptera</i> ...	Miss Stephens.
1 <i>Cordiceps robertsii</i> ...	
1 Small collection of <i>Coleoptera</i> ...	Mr. H. Smithurst.
3 <i>Hemiptera</i> ...	
1 <i>Pielus</i> sp. ...	Mr. F. Stratham.
1 <i>Cossus</i> sp. (larva) ...	
1 Small collection of <i>Hymenoptera</i> ...	Mr. F. Ratte.
1 <i>Antheraea</i> sp. ...	Mr. G. Crisp.
1 <i>Neuropteron</i> ...	Mr. F. E. Moore.
1 <i>Ichneumon</i> ...	Mr. E. Hungerford.
1 <i>Antheraea simplex</i> ...	Mr. George Moore.
1 <i>Sphinx convolvuli</i> ...	Mr. Stangerlethes.
1 <i>Heterostoma</i> sp. ...	Mr. Dale.
1 <i>Bombilius</i> sp. ...	Mr. W. A. Nicholas.
Larva of <i>Chœrocampa scrofa</i> ...	Miss Vernon.
2 <i>Coleoptera</i> ...	Dr. Luther, R.N.
Larva of <i>Hemiptera</i> ...	Mr. H. Collis.
1 <i>Mantis</i> sp. ...	Miss Godby
1 <i>Cossus</i> sp. ...	Mr. G. W. Lowe.
Larva of <i>Sequosa triangularis</i> ...	Mr. H. Smith.
Lepidopterous larva ...	Mr. S. Law.
1 <i>Rhytiphora</i> sp. ...	Mr. J. H. Rose.

Specimen.	Donor.
<i>SPIDERS, &c. (Myriopoda and Arachnida.)</i>	
1 Mygale sp. ...	Mr. G. H. Barrow.
4 Epeira ...	Mrs. G. H. Barrow.
1 Arachnid ...	Mr. Hillaire.
1 Scorpion (from the Soudan)	Mr. D. E. Todd.
1 Heterostoma sulcidens ...	Mr. A. H. Mills.
1 Mygale sp. ...	Editor, <i>Queanbeyan Times</i> .
1 Acrotes sp. ...	Miss Godby.
4 Heterostoma sp. ...	Mr. W. Bailey.
4 Arachnids ...	Mr. J. T. Spurway.
2 Nests of trap-door-spiders	Dr. Carl Fisher.
<i>Crustacea.</i>	
1 Ibacus sp. ...	} Mr. G. L. Goodman.
1 Squilla sp. ...	
1 Neptunus pelagicus ...	Mr. W. Nicholl
1 Lepidura sp. ...	Mr. John Borlase.
1 Hyastenus diacanthus ...	Mr. A. Bird.
1 Ranina dentata ...	Mr. H. Prince.
1 " " ...	Mr. Thos. Dillon.
1 Crab... " ...	Mr. H. Phillips.
<i>Mollusca.</i>	
1 Limax sp. ...	Mr. S. Sinclair.
1 Lima fragilis ...	} Capt. Braithwaite
1 Claviger fastigiella...	
1 Lolligo sp.? ...	Dr. Palmer.
<i>Echinodermata.</i>	
1 Asterina sp. ...	Mr. George Wright.
1 Toxopneustes angulosus ...	Dr. von Lendenfeldt.
1 Asteropsis sp. ...	Mr. G. Wright.
<i>Zoophyta.</i>	
1 Gorgonia sp. ...	Capt. Braithwaite.
<i>Vermes, &c.</i>	
1 Gordius sp....	Inspector Seymour.
1 Hirudo medicinalis	Mr. Shirley.
<i>Geological.</i>	
1 Fossil from Newcastle	Captain Sinclair.
1 Molar tooth of Diprotodon	Mr. Gilleland.
1 Quartz specimen from Prospect	Mr. James Weatherall
Oxide of iron (Darling River)	Mr. C. Brachbull.
6 Fossil shells	} Mr. R. Male.
1 Pebble, quartz	
Specimens of rocks	Mr. Charlesky.
Specimens of minerals from Lake Salvator, Queensland	Mr. C. H. Cheeseborough.
Specimens of copper ore. N.S.W.	} Mr. C. van Velde.
Copper glance, native copper. Nymagee.	
Copper pyrites. Cobar.	
Calcite concretions. Cooma	Mrs. Selkirk.
2 Specimens of gold-bearing rock. Moruya District, N.S.W.	Mr. T. Middleton.
Cretaceous fossils from New Caledonia	Mr. Charles du Peloux.
Carboniferous fossils (Spirifera) with fossil wood. Kangaroo Valley	Mr. David Jarret.
2 Pieces of upper jaw of kangaroo	} Mr. H. Meridith.
Bituminous concretions	
Anterior part of left ramus with symphysis of an aged Diprotodon	Mr. J. B. Cift
Collection of rocks (Arragonite, &c.)	Mrs. Selkirk
Collection of minerals	Mr. Sadleir.
Collection of fossils (Spirifer, &c.)	Mr. W. Moran.
Auriferous sinter (Calcined quartz)	} Mr. F. Ratte.
Silver ores, Galena cerussite. New Caledonia.	
Raw and burnt blanket sands. Victoria.	
Richmondite. New Zealand	
Serpentine, with native copper. New Zealand	
Tasmanite. Tasmania	
Cobaltiferous wad (asbloite) New Caledonia	
Fluor-spar, Ausiderite. Tasmania	
Red-ochre conglomerate. New Caledonia...	
Auriferous copper and iron pyrites. Mitchell's Creek	
Upper cretaceous fossils	

Specimen.	Donor.
<i>Geological—continued.</i>	
Shark's tooth, inside nodule. Queensland	Mr. E. Bright.
Clay-stone with opal. Clonecurry River, Queensland	
Iron pyrites. Bathurst District	Mr. E. Henery.
Portion of jaw of Diprotodon	Mr. E. Fletcher.
6 Mineral specimens...	Mr. A. Chauffourier.
Banxite (?)	Mr. E. C. Close, jun.
<i>Ethnological.</i>	
2 Stone tomahawks. N.S.W.	Mr. C. E. Burrowes.
1 Grinding stone N.S.W.	
1 Nulla-nulla. N.S.W.	Mr. G. Mathew, R.N.
3 Earthenware pots from New Guinea	
2 Stone tomahawks. Wollongong	Mr. J. M'Cooley.
1 " " Liverpool	
4 Grinding stones	Dr. Belisario.
3 Bows	
12 Poisoned arrows	Mr. A. Chauffourier.
16 Boomerangs	
4 Stone tomahawks	Rev. W. Wyatt Gill.
4 " implements	
2 Shields	Mr. R. C. Cooper.
4 Wommeras	
4 Nulla-nullas	Mr. S. Sinclair.
1 Stool from "Novanga," S.S. Islands	
6 Stone tomahawks. N.S.W.	Mrs. Gunther.
1 Grinding stone. N.S.W.	
1 Model outrigger canoe from Ceylon	Dr. Luther, R.N.
2 Boomerangs. Western Australia	
1 Breast-tablet worn by "Gooseberry," Last Queen of Sydney Aborigines	Mr. J. Staine.
1 Calabash. African	Mrs. Gunther.
1 Food-bowl. New Guinea...	Dr. Luther, R.N.
2 Adzes New Guinea	
2 Clubs	Dr. Luther, R.N.
1 Lime-pot	
1 Necklace	
<i>Numatological.</i>	
6 Coins	Mr. Sadlear.
1 Copper coin (Charles, 1675)	Mr. A. B. Hall.
<i>Osteological.</i>	
1 Skull of female aboriginal	Mr. H. Smithurst.
1 Skull of seal. S.A.	
1 Skull of aboriginal. Cape York	Dr. M'Kinlay.
<i>Botanical.</i>	
Roots of vines from Camden affected by <i>Phylloxera vastatrix</i>	Dr. von Lendenfeldt.
Collection of Algæ	Hon. Sir. Alfred Stephen, G.C.M.G., C.B., &c.

APPENDIX IX.

ADDITIONS TO THE MUSEUM LIBRARY.

Reg. No.	Book.	Shelf.
CLASS A 1.		
Descriptive Catalogue of the Osteological Series in the Museum of the Royal College of Surgeons.		
1754	Vol. I, Pisces, Reptilia, Aves, Marsupialia. 4to.	18 A
1755	Vol. II, Mammalia, Placentalia. 4to.	18 A
1780	Flower (W. H.) List of Cetacea in the British Museum. London, 1885. Svo.	2 E
1703-4	Wolf (J.) Zoological Sketches, 1st and 2nd Series. 2 vols. 4to.	34

Reg. No.	Book.	Shelf.
CLASS A 2.		
1547-8	Baird, Brewer, & Ridgway. The Water Birds of North America. Boston, 1884. 2 vols. 4to.	11 C
1754	Descriptive Catalogue of the Osteological Series in the Museum of the Royal College of Surgeons. Vol. I, Pisces, Reptilia, Aves, Marsupialia. 4to.	18 A
1849	Dubois (A.) Conspectus Avium Europacarum. Bruxelles, 1871. (Pamphlets, vol. 4, fol.)	22 D
1850	List of Birds in the Shanghai Museum, 1883. (Pamphlets, vol. 18.)	22 D
1687-91	Macgillivray (W.) History of British Birds. 5 vols. 8vo. ...	3 D
1736	Strickland (H. E.) Ornithological Synonyms. 8vo. ...	1 C
1850	Stoat (W.) Index to Collection of Birds Eggs. (Pamphlets, vol. 18.)	22 D
1850	Stoat (W.) List of Birds Eggs in the Collection of. (Pamphlets, vol. 18.)	22 D
CLASS A 3.		
1754	Descriptive Catalogue of the Osteological Series in the Museum of the Royal College of Surgeons. Vol. I, Pisces, Reptilia, Aves, Marsupialia. 4to.	18 A
1739	Peters & Doria. Catalogo dei Rettili dei Bratrachi. Genova, 1878. 8vo.	12 D
CLASS A 4.		
1754	Descriptive Catalogue of the Osteological Series in the Museum of the Royal College of Surgeons. Vol. I, Pisces, Reptilia, Aves, Marsupialia. 4to.	18 A
1692	Faber (G. L.) Fisheries of the Adriatic. 4to. ...	12 F
1825	Jordan (D. S.) and others. Contributions to North American Ichthyology, Parts 2 and 3. Washington, 1877-78. 8vo.	4 D
1781	Lowe (R. T.) History of the Fishes of Madeira. London, 1843-60. 8vo....	22 E
CLASS A 5.		
1805	Conchologia Indica, Supplement to: Land and Freshwater Shells of India. Text, parts I to IV. 1882-83. 8vo.	14 B
1806	Conchologia Indica, Supplement to: Land and Freshwater Shells of India. Plates, parts I to V. 1882-84. 4to.	14 B
1761	Gould. Mollusca. U.S. Exploring Expedition, 1838-42, Vol. XIII. Boston, 1852. 4to.	14 A
1715-26	Martini (D.) Conchylien Cabinet. 12 vols. 4to. ...	15 A
CLASS A 6.		
1737	Barbut (J.) Les Genres des Insectes de Linne. London, 1781. 4to. ...	13 D
1740-1	Hagen (Dr. H. A.) Bibliotheca Entomologica. Leipzig, 1842-63. 2 vols. 8vo.	12 F
1705	Johnson. Illustrations of British Lepidoptera. 4to. ...	13 C
1727-35	Koch (C. L.) Die Arachniden. 9 vols. 8vo. ...	12 G
CLASS A 7.		
1787	Becker (Leon). Les Arachnides de Belgique. Brussels, 1882, part I. Fol. (Annales du Musée Royal de Belgique, Tome X.)	.....
1796	Bruggemann (F.) Neue Korallen-Arten aus dem Rothen Meeres und von Mauritius. (Abhandlungen des Naturwissenschaftlichen Vereins in Bremen. B. 5, Hf. 2, p. 395.) 1877.	.....
1763	Donovan (E.) Natural History of the Insects of China. London, 1842. 4to.	13 B
1791	Dana (Jas. D.) Corals and Coral Islands. London, 1872. 8vo. ...	.....
1796	Pourtales (L. F. de). Corals and Crinoids (Bull. Mus. Comp. Zool. Harvard, vol. 5 No. 9.) 1878. 8vo.	.....
1796	Heider (A. von). Sagartia troglodites Gosse. (Sitzungsberichte der Kais. Akad. der Wiss. Wien Bd. 75, Hf. 4, p. 367.) 1877.	.....
1796	Heider (A. V.) Cerianthus membranaceus. Haime, 1879 ...	.....
1796	Heider (A. V.) Die Gattung Cladocora Ehrenb. 1881 ...	.....
1792	Kölliker (A.) Anatomische systematische Beschreibung der Aleyonarien. Die pennatuliden. Frankfurt, 1872. 4to.	.....
1793	Klunzinger (C. B.) Die Korallthiere des Rothen Meeres. Berlin, 1877. 4to.	.....
1796	Koch (G. von). Anatomie der Orgelkoralle. Jena, 1874 ...	.....
1738	Müller (J.) & F. H. Troschell. System der Asteriden. Braunschweig, 1842. 4to.	13 B
1794	Machius. Die Expedition zur physikalisch chemischen und biologischen Untersuchung der Nordsee in sommer, 1872. Coelenterata, &c. Berlin, 1875. Fol.	.....
1795	Marenzeller (Emil v.) Die Coelenteraten, Echinodermen, und Würmer de K. K. Österreichisch Ungarischen Norel-expedition. Wein, 1877. 4to.	.....

Reg. No.	Book.	Shelf.
CLASS A 7—continued.		
1697	Pritchard (A.) A History of Infusoria. 4th edition. 8vo. London, 1861.	13 B
1777	Reitter (E.) Systematische Eintheilung der Nitidularien. 1874. 8vo.	12 F
1796	Studer (Th.) Ueber Knospung und Theilung bei Madreporariera. Bern, 1850. ....	.....
1796	Studer (Th.) Neubestimmung einiger seltener Corallenarten. 1878. ....	.....
1775-76	Westwood (J. O.) Arcana Entomologica. London, 1841-45. 2 vols. 8vo.	12 F
1778	Westwood (J. O.) Cabinet of Oriental Entomology. 4to.....	12 F
1779	Westwood (J. O.) Thesaurus Entomologicus Oxoniensis. Oxford, 1874. Fol.	14 A
1828	Uljanin (Dr. B.) Dolium. (Fauna and Flora des Golfes von Neapel. Monographie X.)	4 C
1829	Lang (Dr. A.) Die Polycladen. (Fauna and Flora des Golfes von Neapel. Monographie XI.)	4 C
CLASS A 8.		
1693	Clans (C.) Traité de Zoologie. 8vo.	10 B
1850	Cope (E. D.) The Relations between Thermoporous Reptiles and Monotreme Mammalia. Salem, 1885. (Pamphlets, vol. 18.)	22 D
1828-9	Fauna and Flora des Golfes von Neapel. Mon. X, XI, XII, in 2 vols. 4to.	4 C
1700	Tristram (H. B.) Fauna and Flora of Palestine. 4to.	21 C
1824	Schlegel (H.) Notes from the Royal Zoological Museum of the Netherlands at Leyden. Vol. VII. 1885.	1 E
CLASS A 9.		
1762	MacIise (J.) Comparative Osteology. London, 1847. Fol.	34
1754-5	Descriptive Catalogue of the Osteological Series in the Museum of the Royal College of Surgeons. 2 vols. 4to.	18 A
1756-7	Descriptive and Illustrated Catalogue of the Histological Series in the Museum of the R.C.S.E. 2 vols. 4to. Vol. I. Elementary Tissues of Animals and Vegetables. Vol. II. Structure of Skeleton of Vertebrate Animals.	18 A
1696	Gegenbaur (C.) Morphologisches Jahrbuch, Band X. 8vo ..	4 E
1710	Haeckel (Dr. E.) Biologische Studien Gastraea Theorie. 8vo.	13 D
1850	Higgin (Thos.) On the structure of the Skeleton of Euplectella Aspergillum. 1873. (Pamphlets, vol. 18.)	22 D
1849	Parker (W. K.) On the structure and development of the Skull in Crocodilia, 1883. (Pamphlets, vol. 4, Fol.)	22 D
CLASS B.		
1522-3	Cooke (M. C.) British fresh-water Algae. London, 1882-84. 2 vols. 8vo.	21 E
1828	Berthold (Dr. G.) Cryptonemiaceen. 4to. (Fauna and Flora des Golfes von Neapel. Monographie XII)	4 C
1838	Maccoun (J.) Catalogue of Canadian Plants, Part 2. Gamopetalae. Montreal, 1884. 8vo.	21 E
CLASS C.		
1782-3	Beneden (J. V.) Description des Ossements Fossiles des environs d'Anvers. Part IV. 1885. Fol. 1 vol. texte, 1 vol. plates. (Annales du Musée Royale de Belgique. Tome IX)	21 A
1582	Catalogue Fossil Mammalia in British Museum, Part I. 8vo.	2 E
1850	Canvin (Dr.) Esquisse demographique de la Nouvelles Galles de Sud. Paris, 1881. (Pamphlets, vol. 18.)	22 D
1850	Cope (E. D.) Geology and palaeontology. 1885. (Pamphlets, vol. 18) ...	22 D
1850	Cope (E. D.) The Batrachia of the Permanent Beds of Bohemia. 1885. (Pamphlets, vol. 18.)	22 D
1850	Dupont (E.) Sur l'origine des calcaires devoniens de la Belgique. Brussels, 1881. (Pamphlets, vol. 18.)	22 D
1758	Descriptive Catalogue of Fossil Organic Remains of Pisces and Reptiles in the Museum. R.C.S.E., 1854. 4to.	18 A
1759	Descriptive Catalogue of Fossil Organic Remains of Invertebrata in Museum. R.C.S.E., 1856. 4to.	18 A
1749-50	Koninek (L. de.) Description des Animaux Fossiles de Belgique. Liege, 1842-44. Texte and Plates, 2 vols. 4to.	21 A
1751-2	Koninek (L. de.) Recherches sur les Animaux Fossiles. Parts I and II. Liege, 1847. 2 vols. 4to.	21 A
1784	Koninek (L. de.) Faune du Calcaire carbonifere de la Belgique. 1885. Fol. (Annales du Musée Royale de Belgique, Tome XI.)	21 A
1789	Koninek (L. de.) Faune du Calcaire carbonifere de la Belgique. 1880. Part II. Fol. (Annales du Musée Royale de Belgique, Tome V.)	21 A

Reg. No.	Book.	Shelf.
CLASS C—continued.		
1849	Owen (Prof.) Evidence of a large extinct Lizard, N.S.W. 1884. (Pamphlets, vol. 4, Fol.)	22 D
1849	Owen (Prof.) Evidence of a large extinct Monotreme, N.S.W. 1884. (Pamphlets, vol. 4, Fol.)	22 D
1849	Owen (Prof.) Description of the Teeth of a large Extinct Genus (<i>Seoparnodon Ramsay</i>). 1884. (Pamphlets, vol. 4, Fol.)	22 D
1706-9	Owen (Prof.) History of British Fossil Reptiles. 4 vols. 4to. ...	19 D
1760	Owen (Prof.) Description of the Skeleton of an extinct Gigantic Sloth, (<i>Myiodon robustus</i>). London, 1842. 4to.	21 A
1585	Palaeontographical Society, Vol. XXXVIII. 1884. 4to. ...	22 B
1713	Rutley (F.) The Study of Rocks. Svo. ...	19 C
CLASS D.		
1580-81	Annual Report, Comptroller of Currency, U.S. 1883. Svo., 2 vols. ...	4 D
1807	Annual Report of the Department of Mines, N.S.W. 1884. Fol. ...	22 B
1826	Annual Reports of the Museum of Comparative Zoology at Harvard College, Cambridge, U.S.A., for 1862-63-66-69-70 to 76-78-79-83-84. Svo. ...	4 F
1848	Annual Report of the Indian Museum, 1884-5. Svo. ...	...
1698	Annales des Sciences Naturelles. Zoologie 6th Series. Tome XVII, 1883. Svo.	7 B
1743	" " " " " " Tome XVIII, 1884. Svo.	...
1783-89	Annales du Musée Royale d'Histoire Naturelle de Belgique. Tomes V, IX, X, XI.	21 A
1586-1655	Abhandlungen der K. Akademie des Wissenschaften zu Berlin, 1804-82. 70 vols. 4to.	...
1820	American Naturalist, 1885. Svo. ...	1 D
1841	Annals and Magazine of Natural History. 5th Series, Vols. 15 & 16. 1885. Svo.	1 E
1850	Beneden (Van). Les Squelettes de Cétacés et les Musées qui les renferment. (Pamphlets, vol. 18.)	22 D
1817-1819	Bulletin du Musée Royale d'Histoire naturelle de Belgique. Tomes I to III. 1882-4. Svo.	...
1822	Berichte über die Senckenbergische naturforschende Gesellschaft. Frankfurt, 1882-3-4. Svo.	...
1823	Bericht des Vereines für Naturkunde zu Cassel, Nos. 29, 30, 31. 1883-84. Svo.	...
1764	Cope (E. D.) Tertiary Vertebrata, Book I. 1884. 4to. (Report of the U.S. Geological Survey of the Territories. Vol. III.)	22 A
1798	Catalogue of the Library of the Geological Survey of India. Calcutta, 1884. Svo.	1 A
1827	Catalogue of the Library of the Royal Society of Tasmania. 1885. Svo. ...	1 A
1846	Comptes Rendus. Vol. C. 1885. 4to. ...	30
4846	" " " " " " Vol. CI. 1885. 4to. ...	30
1660-76	Entomologist. Vols. I to XVII. ...	5 E
1810	Entomologist. Vol. XVIII. London, 1885. Svo. ...	5 E
1677-86	Entomologist's Monthly Magazine. Vols. I to XX, in 10 vols. Svo.	16 B
1811	Entomologist's Monthly Magazine. Vol. XXI. London, 1884-85. Svo.	16 B
1821	Guides to the British Museum. Svo. ...	18 H
1835-6	Geological and Natural History Survey of Canada—Report of Progress, 1882-83-84, with Plans. 2 vols. Svo. ...	20 D
1840	Geological Magazine. New series. Dec. III, vol. 2. 1885. Svo. ...	20 G
1764	Heyden (T. V.) Report of the U.S. Geological Survey of the Territories. Vol. III. 1884. 1 vol. 4to.	22 A
International Fisheries Exhibition Literature, 1883:—		
1535	Fishermen and their Literature. Svo. ...	22 F
1536	Fishing Apparatus. Svo. ...	22 F
1537	Fish Culture. Svo. ...	22 F
1538	Fish as Food. Svo. ...	22 F
1539	Salmon and Fresh-water Fishes. Svo. ...	22 F
1540	Zoology of Fishes. Svo. ...	22 F
1541	Fishery Legislation. Svo. ...	21 F
1542	British Fisheries. Svo. ...	22 F
1543	Australian and American Fisheries. Svo. ...	22 F
1544	Foreign Fisheries. Svo. ...	22 F
1545	Inaugural Meetings. Svo. ...	22 F
1712	Journal of Proceedings of Royal Society of N.S.W. Vol. XVIII. Svo. ...	3 A
1813	Ibis. 5th Series, Vol. III. 1885. Svo. ...	15 C
1814	Journal de Conchyliologie. 5th series, Vol. 24 (vol. 32). 1884. Svo. ...	22 D
1849	Kirk (T.) Fruit-blights and Diseases of Fruit-trees in N.Z. 1885. (Pamphlets, vol. 4, Fol.)	...
1656-1659	Die Kawi-sprache auf der Insel Java-Humboldt. 1836, 1838, 1839. 3 vols. 4to. And Atlas Supplement, 1 vol. Folio.	22 D
1850	Lennan (J.) Untersuchungen über die Entstehung der altkrystallinischen Schiefergesteine. Breslau, 1885. (Pamphlets, vol. 18.)	29
1833	Memoirs of the Geological Survey of India. Vol. XXI. Calcutta, 1885. Svo.	...

Reg. No.	Book.	Shelf.
CLASS F.		
1799	Brown (Captain Thos.) The Taxidermist's Manual. London, 1853. 8vo.	18 H
1714	Cassino (S. E.) International Scientist's Directory. 8vo.	1 B
1839	Dawson (G. M.) Comparative Vocabularies of the Indian Tribes of British Columbia. Montreal, 1884. 8vo.	.....
1744-5	Eger (G.) Technological Dictionary in the English and German Languages. London, 1814. 2 vols. 8vo.	2 B
1849	Pamphlets. Folio Series. Vol. IV, 1885. 4to.	22 D
1850	Pamphlets. 8vo. Series. Vol. XVIII, 1885	22 D
CLASS G.		
1746	Davis (G. E.) Practical Microscopy. London, 1882. 8vo.	18 G
1748	Davis (Thos.) The Preparation and Mounting of Microscopic Objects. London. 8vo.	18 G
1753	Davies (J. B.) On the Osteology and Peculiarities of the Tasmanians. Haarlem, 1874. 4to.	19 D
1850	Hutton (F. W.) The Origin of the Fauna and Flora of N.Z. (Pamphlets, vol. 18.) 1884.	22 D
1850	Liebfaden für das Aquarium der Zool. Stn. zu Neapel. 1884. (Pamphlets, vol. 18.)	22 D
1747	Taylor (J. E.) Notes on Collecting and Preserving Natural History Objects. London, 1883. 8vo.	18 G
1850	Topinard (Paul.) Etude sur les Tasmaniens. (Memoirs S. d'Anthropologie. 1872.) (Pamphlets, vol. 18.)	22 D
CLASS H.		
1695	Francis (G. W.) Dictionary of Practical Receipts. 8vo.	2 B
1850	Lasaulx (A.) Die Bausteine des Kölner Domes. Bonn., 1882. (Pamphlets, vol. 18.)	22 D
1694	Stewart (E. W.) Feeding Animals. 8vo.	21 E

[*Supplement to the Australian Museum Report for 1885.*]

1885-6.

NEW SOUTH WALES.

TECHNOLOGICAL, INDUSTRIAL, AND SANITARY MUSEUM.

(REPORT OF THE COMMITTEE OF MANAGEMENT FOR 1885.)

Presented to Parliament, pursuant to Act 17 Vic. No. 2, sec. 9.

TO HIS EXCELLENCY THE GOVERNOR AND EXECUTIVE COUNCIL.

The Trustees of the Australian Museum, incorporated by the Act 17 Victoria No. 2, have the honor to submit to your Excellency in Council, in accordance with the 9th section of that Act, this the Sixth Annual Report of the Committee of Management of the Technological, Industrial, and Sanitary Museum.

1. The business of the Museum has been conducted by the same Committee as in the previous year, namely, Sir Alfred Roberts, M.R.C.S., E., Professor Liversidge, F.R.S.; and Mr. Robert Hunt, F.G.S., Deputy Master of the Mint.

2. The Museum has continued open (in the afternoon only) during the whole of the year 1885. A statement of the number of visitors for the year will be found in Appendix II of this Report.

3. The Museum is still situated in the Agricultural Hall, Outer Domain, but the space allotted for the purpose is now quite inadequate. Complaints are frequently made by visitors to the Museum as to the difficulty of easily getting about in the greater part of it. The Curator's Wednesday afternoon popular descriptions of the exhibits, which were often largely attended, had to be discontinued, partly because it became extremely difficult to find room for the audience. It is now impossible for him to renew them until increased accommodation is afforded. The Committee regrets the discontinuance of this means of popularizing the institution.

4. The total number of specimens acquired during the year is about 3,500, books 699, diagrams, photographs, &c., 550. Of the purchases made by the Committee, the following specimens are of especial interest:—Sets of apparatus for teaching various branches of science, and actually in use in Great Britain,

Switzerland,

Switzerland, Germany, and in this Colony; a superb collection of beetles, and samples of the timber they have destroyed; a collection of greatly enlarged models of flowers, illustrating the natural orders of plants, besides a large number of minerals, and a series of models (in wax) of fruits grown in this Colony. It will also be observed that the donations are both numerous and valuable.

The Committee has obtained by purchase and donation during the past year a large number of Australian specimens, *e.g.*, wool, fruits, timber, minerals, &c.

5. The Committee begs to add to this their Report the following Appendices:—

- I.—Balance-sheet for the year ending 31st December, 1885.
- II.—Attendance of visitors.
- III.—List of specimens purchased.
- IV.—List of specimens presented.
- V.—List of articles lent.
- VI.—List of books purchased.
- VII.—List of books, periodicals, &c., presented.
- VIII.—List of diagrams, maps, photographs, &c., purchased.
- IX.—List of diagrams, maps, photographs, &c., presented.
- X.—List of articles received in exchange.
- XI.—List of articles sent away in exchange.

The Common Seal of the Museum is affixed by order of the Board, this twentieth day of April, 1885.

(L.S.) ALFRED ROBERTS,	} Members of Committee.
(L.S.) ARCHD. LIVERSIDGE,	
(L.S.) ROBERT HUNT,	
(L.S.) ALFRED STEPHEN, Crown Trustee.	

J. H. MAIDEN,
Curator and Secretary.

APPENDIX I.

BALANCE-SHEET of the Technological, Industrial, and Sanitary Museum of New South Wales, for the year ending 31st December, 1885.

RECEIPTS.	£	s.	d.	EXPENDITURE.	£	s.	d.
The Honorable the Treasurer—Vote for 1885..	4,400	0	0	Salaries.....	860	15	6
April 23—Cheque to repair damage to Museum premises.....	2	7	6	Show-cases.....	850	5	0
				Models, chemicals, &c.....	817	5	8
				Specimens.....	889	19	6
				Furniture.....	35	2	3
				Stationery.....	114	18	1
				Freights.....	69	5	11
				Ironmongery.....	44	10	7
				Painter's materials.....	29	16	3
				Timber.....	31	5	8
				Labels.....	153	0	0
				Advertising.....	17	16	0
				Books, diagrams, maps, &c.....	332	0	4
				Collection of specimens.....	4	4	0
				Uniforms for attendants.....	11	4	6
				Postage, exchange, &c.....	9	18	4
				Insurance.....	54	7	6
				Additions to premises.....	23	12	6
				Night-watchman.....	100	0	0
				Mounting of specimens.....	468	0	0
				Sundries.....	14	1	5
Total receipts.....	4,402	7	6	Total expenditure.....	4,931	9	0
Balance from 1884—				Refunds to Treasurer.....	1	3	1
Bank of New South Wales... 1,172 4 0				Balance to 1886—			
Cash in hand..... 2 19 10				Union Bank..... 639 11 2			
	1,175	3	10	Cash in hand..... 5 8 1			
					644	19	3
	£ 5,577	11	4		£ 5,577	11	4

APPENDIX II.

ATTENDANCE (AFTERNOONS ONLY) OF VISITORS DURING 1885.

						Sundays.	Week-days.
January	...	...	...	...	...	2,214	4,607
February	...	...	...	...	...	1,875	2,399
March	...	...	...	...	...	2,707	2,675
April...	...	...	...	...	...	1,889	2,665
May ...	...	...	...	...	...	1,952	2,449
June ...	...	...	...	...	...	2,074	2,232
July ...	...	...	...	...	...	2,459	2,518
August	...	...	...	...	...	2,364	2,182
September	...	...	...	...	...	1,552	2,064
October	...	...	...	...	...	1,471	2,592
November	...	...	...	...	...	1,824	2,379
December	...	...	...	...	...	1,724	3,717
						24,105	32,479
Total	...	...	...	...	...	56,584	

Largest Sunday attendance, January 11th 792
 Largest week-day attendance, January 26th... .. 1,051

APPENDIX III.

PURCHASES (Specimens).

When received	Description of Exhibit.
1885.	
10 January ...	Eighty samples of ornamental and other timbers from all parts of the world, in small rectangular blocks, with one side polished and the other in the rough.
10 " ...	Set of chemical apparatus used by students in the University of Sydney. Designed by Professor Liversidge, F.R.S.
	Set of 100 mineral specimens (in glass tubes and polished box) for blowpipe analysis, used by students in the University of Sydney.
31 March ...	Two emu eggs carved by an aboriginal in the Bourke District.
	One turtle shell from the river Darling.
31 " ...	Pair of ancient Japanese bronze vases.
31 " ...	Water-bag of kangaroo-skin; apparatus for obtaining fire by friction; stone tomahawk. All made by aboriginals on the Lachlan River.
	A collection of burrs, seeds, &c., injurious to wool; together with specimens of the plants yielding the same.
	A collection of fodder plants, tans, woods, gums, and resins.
	A very fine collection of indigenous grasses, of which the following is a list:—
	<i>Panicum macractinum</i> (Benth.)
	Do <i>divaricatissimum</i> (R. Br.)
	Do <i>bicolor</i> (R. Br.)
	Do <i>leucophæum</i> (Humb. et Bonpl.)
	Do <i>gracile</i> (R. Br.)
	Do <i>effusum</i> (R. Br.)
	<i>Eragrostis chætophylla</i> (Steud.)
	Do <i>pilosa</i> (Palisot).
	Do <i>lacunaria</i> (F. v. M.)
	<i>Pappophorum nigricans</i> (R. Br.)
	<i>Chloris divaricata</i> (R. Br.)
	Do <i>acicularis</i> (Lindley.)
	<i>Hordeum murinum</i> (Linn.)
	<i>Diplachne fusca</i> (Beauv.)
	<i>Andropogon sericeus</i> (R. Br.)
	<i>Sporobolus Lindleyi</i> (Benth.)
	<i>Eriochloa punctata</i> (Hamilt.)
	<i>Aristida calycina</i> (R. Br.)
	<i>Astrebula triticoides</i> (var.) (F. v. M.)
	<i>Amphipogon strictus</i> (R. Br.)
	<i>Stipa elegantissima</i> (Labill.)
	Do <i>aristiglumis</i> (F. v. M.)
	Do <i>setacea</i> (R. Br.)
	Do do (variety) (R. Br.)
	<i>Bromus arenarius</i> (Labill.)
	<i>Agropyrum velutinum</i> (Nees).
	Do <i>scabrum</i> (Beauv.)

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.																																																																																										
1885.	Amphibromus Neesii (Steud). Neurachne Mitchelliana (Nees). Danthonia pallida (R. Br.) Poa cœspitosa (var.) (Forst.) Festuca bromoides (Linn.) Phalaris canariensis (Linn.) Alopecurus geniculatus (Linn.) Deyeuxia Forsteri (Kunth). Glyceria ramigera (F. v. M.) Specimens of several plants put, by aboriginals or settlers, to economic uses. The whole of the above are from the neighbourhood of the Lachlan and Darling Rivers.																																																																																										
7 April	... About 250 specimens of minerals of New South Wales obtained in the New England District, comprising the following:— Alluvial tin, ruby tin, wood tin, tin wash-dirt, tin in granite and in conglomerate, fine specimens of tin crystals, and of quartz containing tin ore, specimens to illustrate the metallurgy of tin. Argentiferous pyrites and specimens of wolframite, metallic antimony, crystallized limestone, quartz crystals, petrified wood, chalk, sapphires, amethysts, and gem sand.																																																																																										
17 "	... Ceragyrite or "Horn" silver from Morris' Big Blow, Silverton, New South Wales. This specimen (weight 3 lbs.) was broken off a large piece of equally rich ore which lay almost on the surface. It has been analyzed with the following result:— <table><tr><td>Moisture</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>48</td></tr><tr><td>Chloride of silver</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>72.23</td></tr><tr><td>Insoluble in acids</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>9.70</td></tr><tr><td>Carbonate of iron</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>4.26</td></tr><tr><td>Alumina</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>2.33</td></tr><tr><td>Carbonate of lime</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>6.40</td></tr><tr><td>Do magnesia</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>3.75</td></tr><tr><td>Undetermined</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>...</td><td>.85</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> 100.000 </td></tr></table>	Moisture	...	...	...	...	...	...	...	...	48	Chloride of silver	...	...	...	...	...	...	...	...	72.23	Insoluble in acids	...	...	...	...	...	...	...	...	9.70	Carbonate of iron	...	...	...	...	...	...	...	...	4.26	Alumina	...	...	...	...	...	...	...	...	2.33	Carbonate of lime	...	...	...	...	...	...	...	...	6.40	Do magnesia	...	...	...	...	...	...	...	...	3.75	Undetermined	...	...	...	...	...	...	...	...	.85										100.000
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22 "	... Collection of forty-one articles constituting the obligatory set of apparatus used in all the complementary schools of the Canton of Zurich, Switzerland, for teaching physics.																																																																																										
22 "	... Collection of forty-six articles constituting a set of apparatus, the use of which is obligatory in the public secondary schools of the Canton of Zurich, Switzerland, for teaching physics.																																																																																										
22 "	... Collection of thirty articles constituting a set of apparatus, the use of which is obligatory in the highest schools of the Canton of Zurich, Switzerland, for teaching chemistry.																																																																																										
22 "	... Small set of physical apparatus employed in the public schools of the Canton of Berne, Switzerland.																																																																																										
22 "	... A number of educational amusements for children, suitable for prizes or presents, manufactured chiefly in Germany and Switzerland. A quantity of Kindergarten apparatus. A collection of drawing models, rulers, &c., for use in schools. A collection, in six glass cases, illustrating the metamorphoses of insect life. With explanatory pamphlet.																																																																																										
5 June	... A collection of new economic vegetable products, as follows:— <table><tr><td>ROOTS:— Smilax zeylanica Tragia volubilis Petiveria alliacea Abrus precatorius Aconitum heterophyllum Krameria Ixina Phyllanthus Niruri Corypha cerifera Piper methysticum Scopolia japonica BARKS:— Acanthosicyos sp. Plumiera alba Colubrina reclinata Crescentia Cujete Michelia nilgherica Toddalia aculeata Black Quinine</td><td>BARKS—continued. Cinchona Remijia Guarea trichilioides Syzygium jambolanum Bursera gummifera Brazilian perfume bark Anacardium occidentale Mangifera indica Andira inermis Guaiacum officinale Leucæna glauca Azadarachta sp. Hamamelis virginica Gossypium herbaceum Piscidia Erythrina Quebracho blanco Erythrophlœum guineense Alstonia constricta Calotropis gigantea</td></tr></table>	ROOTS:— Smilax zeylanica Tragia volubilis Petiveria alliacea Abrus precatorius Aconitum heterophyllum Krameria Ixina Phyllanthus Niruri Corypha cerifera Piper methysticum Scopolia japonica BARKS:— Acanthosicyos sp. Plumiera alba Colubrina reclinata Crescentia Cujete Michelia nilgherica Toddalia aculeata Black Quinine	BARKS—continued. Cinchona Remijia Guarea trichilioides Syzygium jambolanum Bursera gummifera Brazilian perfume bark Anacardium occidentale Mangifera indica Andira inermis Guaiacum officinale Leucæna glauca Azadarachta sp. Hamamelis virginica Gossypium herbaceum Piscidia Erythrina Quebracho blanco Erythrophlœum guineense Alstonia constricta Calotropis gigantea																																																																																								
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APPENDIX III—*continued.*

PURCHASES.

When received.	Description of Exhibit.
1885.	BARKS :— <i>Alstonia Scholaris</i> <i>Pæonia</i> sp. LEAVES :— <i>Heliotropium parviflorum</i> <i>Mammea americana</i> <i>Eupatorium odoratum</i> <i>Quebracho blanco</i> <i>Boldoa fragrans</i> <i>Sarracenia purpurea</i> <i>Solanum paniculatum</i> <i>Sethia acuminata</i> <i>Phyllanthus Niruri</i> <i>Justicia Adhatoda</i> <i>Ocimum canum</i> <i>Cydistax antisiphilitica</i> <i>Abrus precatorius</i> <i>Lawsonia alba</i> <i>Carica Papaya</i> <i>Hamamelis virginica</i> <i>Peumus Boldo</i> <i>Duboisia myoporoides</i> <i>Erythroxylon Coca</i> <i>Flacourtia cataphracta</i> <i>Datura Stramonium</i> FRUITS AND SEEDS :— <i>Omphalocarpum</i> sp. <i>Cocos Weddelliana</i> Maragogipe coffee seed <i>Jatropha Curcas</i> <i>Phyllanthus Niruri</i> Yarkasura nuts <i>Diospyrus embryopteris</i> <i>Pterocarpus edulis</i> <i>Livistonia chinensis</i> <i>Butyrosom tomentosum</i> <i>Guilandina Bonducella</i> <i>Psoralea corylifolia</i> <i>Hydnocarpus Wightiana</i> <i>Ptychotis Ajowan</i> <i>Sapindus Saponaria</i> <i>Andira inermis</i> <i>Raphia vinifera</i> <i>Gynocardia odorata</i> Cabbage-palm seed <i>Elais guineensis</i> <i>Carica Papaya</i> <i>Adenanthera pavonina</i> <i>Abrus precatorius</i> <i>Thespesia populnea</i> <i>Dolichos sinensis</i> <i>Plantago Ispaghula</i> Camacusan seed <i>Sterculia acuminata</i> FRUIT AND SEEDS—continued. <i>Poinciana regia</i> <i>Cydistax antisiphilitica</i> <i>Pedaliu murex</i> Para rubber seed FLOWERS :— <i>Tecoma speciosa</i> <i>Ocimum canum</i> MISCELLANEOUS (including herbs, oils, extracts, &c.— <i>Anthoxylon</i> sp. (seed) Kokum butter <i>Agave Americana</i> <i>Geissospermum laeve</i> <i>Acanthospermum</i> sp. <i>Pareira brava</i> <i>Capraria biflora</i> <i>Turnera ulmifolia</i> <i>Herpestris monniera</i> <i>Gracillaria lichenoides</i> <i>Empleurum crenulatum</i> <i>Premna serratifolia</i> <i>Appoplappus dicodiens</i> <i>Bucha spinosa</i> <i>Dorstenia brasiliensis</i> Quassia-wood <i>Andira inermis</i> <i>Pongamia glabra</i> (oil) <i>Gynocardia odorata</i> (oil) <i>Ficus doliaria</i> (juice) <i>Carica papaya</i> (dried juice) <i>Mentha arvensis</i> v. <i>purpurascens</i> (crystals) <i>Calophyllum inophyllum</i> (oil) <i>Abrus precatorius</i> (stems) <i>Parthenium hysterophorus</i> (herb) Japanese Agar Agar Lemon grass <i>Guazuma ulmifolia</i> <i>Anona muricata</i> <i>Boussingaultia baselloides</i> <i>Aconitum ferox</i> Chian turpentine <i>Hydrocotyle asiatica</i> (herb) <i>Gouania domingoensis</i> Covinho do Matto <i>Euphorbia pilulifera</i> (herb) <i>Physostigma venenosum</i> <i>Mikania Guaco</i> (herb) <i>Turnera aphrodisiaca</i> <i>Ilex paraguayensis</i> <i>Piper Novæ Hollandiæ</i> <i>Rhamnus purshiana</i> <i>Coptis anemonæfolia</i>
5 June	... A collection of vegetable substances used in Japanese medicine. They will be found described by Mr. E. Holmes, F.L.S., in the <i>Pharmaceutical Journal</i> of London.
5 June	... One tan-testing apparatus.
5 June	... Seventy-nine fictile ivories, comprising:—Diptyches, statuettes, panels, devotional tablets, plaques, panel-framings, vases, horns, book-covers, caskets, staffs, pails, combs, and pyx, &c., &c.
5 June	... A collection of about 100 raw vegetable and animal products useful in pharmacy, perfumery, dyeing, tanning, &c. They include gums and resins, barks, roots, vegetable extracts, isinglass, musk, &c., inorganic chemical products, and rare alkaloids.
29 "	... A collection (in twenty-eight show cases) of beetles, with their larvæ, which are injurious to timber trees, together with specimens of timber trees, leaves, &c., which they have injured.
	The number of species is 256; the number of specimens over 1,000. The collection (made by Herr Fankhauser, of the Swiss Forest Department), gained the gold medal at the International Exhibition at Zurich in 1883, and is a most remarkable exhibit.

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.
1885. 15 June...	List of the beetles in the collection :—
	A. PENTAMERA.
	IV. LAMELLICORNIA.
	<i>Anomala Frischi</i> Fabr. <i>Phyllopertha horticola</i> L. <i>Anisophia fruticola</i> Fabr. <i>Rhizotrogus solstitialis</i> L. <i>Polyphylla fullo</i> L. <i>Melolontha vulgaris</i> Fabr.
	<i>Melolontha hippocastani</i> Fabr. <i>Lucanus cervus</i> L. <i>Dorcus parallelepipedus</i> L. <i>Platycerus caraboides</i> L. <i>Sinodendron cylindricum</i> L.
	VII. BUPRESTIDÆ.
	<i>Chalcophora mariana</i> L. <i>Capnodis tenebrionis</i> L. <i>Chrysobothris affinis</i> Fabr. <i>Pœcilonota rutilans</i> Fabr. <i>Ancylocheira rustica</i> L. " <i>flavomaculata</i> Fabr. <i>Coræbus bifasciatus</i> Oliv. " <i>elatus</i> Fabr. <i>Anthaxia manca</i> Fabr. " <i>quadripunctata</i> L. " <i>nitidula</i> L.
	<i>Anthaxia Salicis</i> Fabr. " <i>morio</i> Fabr. <i>Agrilus biguttatus</i> Fabr. " <i>cœruleus</i> Rossi. " <i>olivicolor</i> Kies. " <i>tenuis</i> Ratz. " <i>angustulus</i> Ill. " <i>viridis</i> L. <i>Trachys minuta</i> L. " <i>troglydytes</i> Schœnh.
	VIII. ELATERIDÆ.
	<i>Læon murinus</i> L. <i>Athous subfuscus</i> Müll.
	<i>Athous lineatus</i> L. <i>Dolopius marginatus</i> L.
	IX. MALACODERMATA.
	<i>Telephorus fuscus</i> L.
	<i>Telephorus obscurus</i> L.
	X. XYLOPHAGA.
	<i>Lymexylon navale</i> L. <i>Hylecœtus dermestoides</i> Fabr. " <i>flabellicornis</i> Nddm. <i>Hedobia imperialis</i> L. <i>Ptinus fur</i> L. <i>Anobium molle</i> Fabr. " <i>domesticum</i> Fourc. " <i>nigrinum</i> Sturm.
	<i>Anobium striatum</i> Ill. " <i>pertinax</i> L. " <i>denticolle</i> Pz. " <i>fagicola</i> . <i>Xestobium tessellatum</i> Fabr. " <i>plumbeum</i> Ill. <i>Ptilinus pectinicornis</i> L. <i>Apate capucina</i> L.
	B. HETEROMERA.
	XIII. VESICANTIA.
	<i>Lytta vesicatoria</i> L.
	C. CRYPTOPENTAMERA.
	XIV. BRUCHIDÆ.
	<i>Bruchus Cisti</i> Payk.
	XV. CURCULIONIDÆ.
	<i>Brachytarsus varius</i> Fabr. <i>Apoderes Coryli</i> L. <i>Attelabus curculionides</i> L. <i>Rhynchites Betule</i> L. " <i>betuleti</i> Fabr. " <i>pauxillus</i> Germ. " <i>populi</i> L. " <i>tristis</i> Fabr. " <i>nanus</i> Payk. <i>Strophosomus Coryli</i> Fabr. " <i>obesus</i> Marsh. <i>Cneorhinus geminatus</i> Fabr. <i>Brachyderes incanus</i> L. <i>Sitones lineatus</i> L. <i>Metallites mollis</i> Germ. " <i>atomarius</i> Oliv. " <i>marginatus</i> Steph. <i>Polydrusus micans</i> Fabr. " <i>sericeus</i> Schall. " <i>Picus</i> Fabr. " <i>cervinus</i> Gyll. " <i>flavipes</i> Deg. " <i>undatus</i> Fabr.
	<i>Phyllobius argentatus</i> L. " <i>viridicollis</i> Fabr. " <i>mus</i> Fabr. " <i>calcaratus</i> Fabr. <i>Otiorhynchus niger</i> Fabr. " <i>ovatus</i> L. " <i>picipes</i> Fabr. <i>Cleonus turbatus</i> Schœnb. <i>Hylobius Abietis</i> Fabr. <i>Pissodes notatus</i> Fabr. " <i>Piceæ</i> Ill. " <i>Pini</i> L. " <i>Harciniæ</i> Hrbst. " <i>Strobili</i> Rdt. <i>Brachonyx indigena</i> Hrbst. <i>Magdalinus violaceus</i> L. " <i>rufus</i> Germ. <i>Dorytomus vorax</i> Fabr. " <i>dorsalis</i> Pz. <i>Balanus nucum</i> L. " <i>turbatus</i> Gyll. " <i>Brasciæ</i> Fabr. " <i>glandium</i> Marsh.

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.	
1885. 15 June...	Balanus villosus Hrbst. Orchestes Fagi L. " Quercus L. " Ilicis Fabr. " signifer Germ. " Salicis L.	Orchestes Populi Fabr. " scutellaris Fabr. " Alni L. Trachodes hispidus L. Cionus Fraxini De Geer. Cryptorhynchus Lapathi L.
	XVI. SCOLYTIDÆ.	
	A. Hylesinini.	
	Hylastes ater Payk. " bruneus Er. " cunicularius Er. " attenuatus Er. " angustatus Hrbst. " opacus Er. " glabratus Zett. " palliatus Gyll. " Trifolii Müll. Hylurgus ligniperda Fabr. Myelophilus piniperda L. " minor Hart.	Kissophagus Hederæ Schmidt. Xylechinus pilosus Ratz. Polygraphus poligraphus L. Dendroctonus micans Kugel. Carphoborus minimus Fabr. Phloeosinus Thujæ Perris. Hylesinus crenatus Fabr. " Fraxini Fabr. " Kraatzi Eich. " vittatus Fabr. Phloeophthorus Sparti Nærdl. Phloeotribus oleæ Fabr.
	B. Scolytini.	
	Scolytus Geoffroyi Gætz. " Ratzeburgi Janson. " pygmaeus Fabr. " Pruni Ratz. " var Pyri Ratz.	Scolytus intricatus Ratz. " rugulosus Ratz. " multistriatus Marsh. " Kirschii Skal.
	C. Tomicini.	
	Crypturgus pusillus Gyll. " cinereus Hrbst. Hypoborus Ficus Er. Cryphalus Picæ Ratz. " Abietis Ratz. " asperatus Ratz. " Tiliæ Pz. " Fagi Fabr. " Schreineri Eich. Glyptoderus Alni Lindem. Pityophthorus Lichtensteini Ratz. " ramulorum Perris. " glabratus Eich. " mycographus Gyll. Taphrorychus bicolor Hrbst. " Bulmerinequi Kolen. Xylocleptes bispinus Duft. Tomicus sex-dentatus Börner. " Cembra Heer. " amitinus Eichh. " typographus L. " acuminatus Gyll. " rectangulus Eichh.	Tomicus proximus Eichh. " Laricis Fabr. " suturalis Gyll. " curvidens Germ. " longicollis, Gyll. " chalcographus L. " bidentatus Hrbst. " quadridens Hart. " bistridentatus Eichh. Dryocætes autographus Ratz. " Alni Georg. " villosus Fabr. " Coryli Perris. Coccotrypes dactyliperda Fabr. Xyleborus dispar Fabr. " cryptographus Ratz. " eurygraphus Ratz. " Saxeseni Ratz. " dryographus Ratz. " monographus Fabr. Trypodendron domesticum L. " Quercus Eichh. " lineatum L.
	D. Platypodæ.	
	Platypus cylindrus Fabr.	
	XVII. CERAMBYCIDÆ.	
	Spondilis buprestoides Fabr. Aegosoma scabrione Fabr. Hammaticheros heros Gyll. " cerdo, Fabr. Purpuricenus Köhleri Fabr. Aromia moschata L. Callidium variabile L. " var. testaceum " violaceum L. " sanguineum L. " Alni. Rhopalopus clavipes Fabr. Hylotrupes bajulum L. Criomorphus luridum L. Asemum striatum L.	Clytus arietis L. " arcuatus L. " deditus L. " plebejus Oliv. Molorchus minor L. " major L. Lama textor L. Monochamus sartor Fabr. " sutor L. Aestynomus ædilis L. Leiopus nebulosus L. Pogonocherus fascicularis Pz. " hispidus. Mesosa curculionides L. " nubila Oliv.

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.
1885. 16 June...	Saperda carcharias L. " Populnea L. " scalaris Fabr. Stenostola nigripes Fabr. Oberea oculata L. " linearis L. Oberea pupillata Gyll. Rhagium bifasciatum Fabr. " mordax Fabr. " inquisitor L. " indigator Fabr. Rhamnusium Salicis Fabr.
	XVIII. CHRYSOMELIDÆ.
	Clythra quadrimaculata L. Pachybrachis hieroglyphicus Fabr. Chrysomela polita L. Lina populi L. " Tremulæ Fabr. " longicollis Suff. " ænea L. Gonioctena viminalis L. Phratora Vitellinæ L. Adimonia capreæ L. Galeruca lineola Fabr. Agelastica Alni L. Calomicrus pinicola Duft. Haltica Erucæ Fabr. " versicolor.
19 August ...	Scale of colours, shown on 227 coloured cards (Stuhlmann). Russian calculating apparatus. Botanical portfolio, containing collection of dried specimens. Apparatus for calculating fractions (Schilling). Twelve enlarged models of plants typical of natural orders. Plate of colours (Schilling). Circle showing shades of colours. Five small cases of slides for the microscope. Thirty models of anatomical sections of plants. Collection of various foods and their adulterations. Thirty models of foraminifera, mounted on stands. Scale of hardness, in box (Mohs). Tellurium. Collection of pearl mussels, and samples of the pearls taken from them. Radde's International colour scale. The above were obtained in Germany.
25 September ...	Sets of apparatus purchased in England, viz. :— Set of chemical apparatus to illustrate Professor Roscoe's Chemistry Primer. Collection of apparatus suitable for experiments to illustrate a short course of popular lectures on chemistry. Collection of chemical apparatus, and tests for performing the experiments described in Johnston's Catechism of Agricultural Chemistry. Cheap analytical set of chemical apparatus for the use of Teachers. Set of apparatus for quantitative chemical analysis. Lecture set for experiments with the gases. Sets of blow-pipe apparatus (2 sets—one large, one small—Taylor's), in japanned tin cases. Set of air-pump apparatus intended to illustrate the properties of the atmosphere. Set of apparatus to illustrate Balfour Stewart's Physics Primer. Set of apparatus arranged by Professor Wanklyn for use in the analysis of water. Set of apparatus for teaching electricity. Set of solutions and apparatus for Clark's water tests of hardness and alkalinity.
8 October ...	Model (148 times enlarged) of a hen's egg. The structure of the egg can be studied by means of four different sections, and the formation of the germ can be observed up to its complete development. Collection of thirty-one sets of teeth of the horse, from birth to a very advanced age, with examples to show the effect of crib-biting and wind-sucking, and the frauds employed to make a horse appear of a different age. Models showing the form and organization of the teeth of a horse, and the effect of usage on them. Models in papier mâché of the following familiar plants :— Wallflower (Cheiranthus Cheiri). Clove Pink (Dianthus Caryophyllus). Rampion (Campanula Rapunculus). Chrysanthemum (Chrysanthemum coronarium). Bitter-sweet (Solanum Dulcamara). Deadly nightshade (Atropa Belladonna). Lily (Lilium sp.) Rumex patientia. Henbane (Hyoscyamus niger). Fuchsia (Onagraria sp.) Columbine (Aquilegia vulgaris) Yew (Taxus baccata). Oak (Quercus Robur).

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.
1885.	
24 October ...	Cherry (<i>Cerasus vulgaris</i>). Comfrey (<i>Symphytum officinale</i>). Moss (<i>Polytrichum commune</i>). Models of the following notable gold nuggets discovered in the Colony of Victoria:— Welcome, Beauty, Platypus, Viscountess Canterbury, Precious, Kum Fow, Needful, Crescent, Spondulix, Schelwin.
30 " ...	(See Reports of the Department of Mines of Victoria). The following collections were purchased in Germany, and comprise minerals, precious stones, rocks, &c., from all parts of the world. 1. Collection of pseudomorphous minerals:— Redruthite Azurite Pyrite Limonite Iron-ochre Quartz Cinnabar Markasite Gypsum Calcite Anhydrite Galenite Copper Malachite Steatite Titanite Pyrolusite Wad Stibiocarbonate of lead Haematite Limonite Hausmannite Flint Chalcedony Sandstone Siderite Smithsonite Calcite Cerussite Pseudotriplite Mica Talc Damourite Lepidolite Serpentine Libethenite Iron flint Delessite Amphibole Kaolin Pinite Fahlunite Pyrargillite Gigantolite Altered from organisms:— Orthoceras altered to Pyrite Ammonites " Limonite Wood " Limonite and Semi opal Cyathophyllum " Silica Pleurodictyum " Sandstone Ammonites " Calcite Fenestrella " Dolomite Plants " Clay ironstone
	Collection of minerals to show aggregation, structure, tenacity, fracture. <i>Aggre-</i> <i>gation and structure:—</i> Quartz, unhindered crystallization " hindered do " compact crystalline Opal, amorphous Marble, rough-granulous " granulous Alabaster, fine granulous Scum-calcite, scaly Lepidolite, fine scaly Cadmiumblende, radiated Quartz, columnar Gypsum, fibrous Aragonite, concentric fibrous Pyrolusite, radiated " Malachite, " " Tremolite, confused " Jasper, globe form Quartz, almond form Hyalite, cluster do Flosferri, coralloid Markasite, combiform Mesotype, needle-form Heteromorphite, hair-form Stalactite, stalactitic Limestone, stalactitic-tufaceous Limonite, piniform Copper, leaf-form " tree-form " branch-form Galena, interlaced crystals Bismuth, feather-form Cap-quartz, cap-form Blende, shell-form Sphaerosiderite, shell-concentric Dendrites on limestone, dendritic Wacke, cellular Pumice, blistered Wacke, perforated Quartz, incomplete planes Quartz, corroded Gypsum, curved Quartz, striated <i>Tenacity:—</i> Feldspar, brittle Sphalerite, " Steatite, soft Antimonite, soft Native lead, ductile Copper, malleable Talc, flexible Mica, elastic <i>Fracture:—</i> Obsidian, conchoidal Semiopal, even conchoidal Chalcedony, splinterin Serpentine " Heliotrope, even Kaolin, earthy

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.	
1885.	Collection of twin-minerals (macles) :—	
30 October	<i>Isometric system</i> :—	Chalcocite
	Fluorite	Bournonite
	Magnetite	Aragonite
	Sphalerite	Cerussite
	<i>Tetragonal system</i> :—	Strontianite
	Cassiterite	<i>Monoclinic system</i> :—
	Rutile	Gypsum
	Chalcopyrite	Staurolite
	<i>Hexagonal system</i> :—	Epidote
	Calcite	Harmotome
	Chabazite	Orthoclase
	<i>Orthorhombic system</i> :—	Adularia
	Markasite	Sphene
	Glaucodote	<i>Triclinic system</i> :—
		Albite
	Collection of minerals to show electricity and magnetism :—	
	ELECTRICITY.	
	Amber	Coal
	Asphaltum	Wolframite
	Quartz	Pyrite
	Feldspar	Calcite
	Gypsum	Fluorite
	Halite	Tourmaline
	Romanzovite	Topaz
	Hedenbergite	Quartz
	Graphite	
	MAGNETISM.	
	Meteoric iron	Magnetite
	Magnetite	Bismuth
	Pyrrhotite	Iceland spar
	Hæmatite	
	Collection of minerals, &c., to show Physiological properties :—	
	Halite	Muscovite
	Polyhalite	Snarumite
	Carnallite	Stinking marble
	Kainite	Do limestone
	Melanterite	Arsenopyrite
	Goslarite	Pyrite
	Fibroferrite	Talc
	Alum earth	Graphite
	Sulphur	Chalk
	Asphalt	Bole
	Clay	Lithomarge
	Collection of the most important natural elements, together with a number of minerals, &c., used in the preparation of chemical compounds :—	
	Diamond	Leucopyrite
	Graphite	Pyrite
	Sulphur	Markasite
	Arsenic	Arsenopyrite
	Bismuth	Cobaltite
	Meteoric iron	Smaltite
	Copper	Redruthite
	Quicksilver	Galenite
	Silver	Zorgite
	Gold	Argentite
	Platinum	Diserasite
	Osmiridium	Covellite
	Realgar	Cinnabar
	Orpiment	Sylvanite
	Antimonite	Nagyagite
	Molybdenite	Bornite
	Sphalerite	Jamesonite
	Cadmium blende	Proustite
	Nickeliferous pyrites	Pyrrhotite
	Millerite	Tetrahedrite
	Pyrrhotite	Valentinite
	Siegenite	Quartz

APPENDIX III—*continued.*

PURCHASES.

When received.	Description of Exhibit.		
1885. 30 October ...	Smoky quartz Rock crystal Amethyst Jasper Flint Chalcedony Agate Brookite Rutile Zircon Cassiterite Zincite Corundum Emery Ruby Sapphire Hematite Ilmenite Braunitz Hausmannite Pyrolusite Cuprite Tenorite Opal Semiopal Brucite Manganite Gæthite Limonite Halite Cerargyrite Fluorite Calomel Cryolite Nitre Soda nitre Calcite Iceland spar Marble Limestone Magnesite Dolomite Brown spar Smithsonite Siderite Aragonite Witherite Strontianite Cerussite Azurite Malachite Anhydrite Barite Anglesite Wolframite Uraninite Linarite Gypsum Alabaster	Epsomite Melanterite Alum Spinel Magnetite Chrysoberyl Borax Apatite Phosphorite Pyromorphite Vanadinite Triplite Olivenite Phosphorocalcite Lazulite Vivianite Erythrite Uranite Andalusite Topaz Syenite Tourmaline Epidote Cerite Olivine Essonite Pyrope Granite Prehnite Lepidolite Muscovite Talc Steatite Serpentine Kaolin Wollastonite Augite Rhodonite Hornblende Leucite Beryl Orthoclase Adularia Albite Oligoclase Labradorite Phillipsite Phacolite Garnierite Titanite Yttrotitanite Amber Asphalt Boghead coal Brown coal Cannel coal Anthracite Hydrotalcite Ozokerite	
	Collection of 100 minerals to show colour and lustre.		
	Collection of imitations (in strass) of precious stones :—		
	Diamond Ruby Emerald Garnet Zircon Topaz Tourmaline Amethyst	Beryl Pyrope or Bohemian garnet Chrysolite Aquamarine Chrysoprase Sapphire Spinel ruby	

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.																																										
1885. 30 October ...	Scale of hardness of minerals according to Mohr and Breithaupt:— <table border="0"> <tr> <td><i>Mohr.</i></td><td><i>Breithaupt.</i></td></tr> <tr> <td>Talc</td><td>Talc</td></tr> <tr> <td>Gypsum</td><td>Gypsum</td></tr> <tr> <td>Calcite</td><td>Mica</td></tr> <tr> <td>Fluorite</td><td>Calcite</td></tr> <tr> <td>Apatite</td><td>Fluorite</td></tr> <tr> <td>Feldspar</td><td>Apatite</td></tr> <tr> <td>Quartz</td><td>Hornblende (Amphibole)</td></tr> <tr> <td>Topaz</td><td>Feldspar</td></tr> <tr> <td>Corundum</td><td>Quartz</td></tr> <tr> <td>Diamond</td><td>Topaz</td></tr> <tr> <td></td><td>Corundum</td></tr> <tr> <td></td><td>Diamond</td></tr> </table> Show-case of measures of weight, length, &c., to illustrate the Metric System (Compendium métrique, Hachette). Chaumeil's abacus. Cordier's do Chabenat's do Main Clerget (model to show the position the hand should occupy in writing). A collection of specimens, forming a small museum in itself. Such a museum would be useful for the larger Public Schools, for Schools of Art, and other Institutions. The following is a brief statement of its contents:— The chief bones of the human skeleton, and the leg bones of a horse. Type skeletons of birds, mammals, &c. Type zoological specimens in spirit. Type specimens of birds, mammals, and fishes, stuffed. Models of the human eye, ear, and heart, in papier-mâché. A collection of Coleoptera. Do Lepidoptera. Do Diptera, &c. A small cabinet of shells. A collection of typical rocks. Do do minerals. A series of crystal models, in wood. A number of sections of the chief timbers in common use. Twenty object-lesson cards; also samples of foods, drugs, dyes, chemicals, &c., &c., in separate boxes. An herbarium of grasses. Do forest trees. Do ornamental shrubs. 4 November... Models of implements and apparatus used in wine-making in the south of Italy. 14 & 30 Dec. ... Models of implements used in agriculture, horticulture, &c. 56 models, in wax, of the following fruits:— <table border="0"> <tr> <td>4 peaches (4 varieties)</td><td>2 mandarin oranges (2 varieties)</td></tr> <tr> <td>16 apples (14 do)</td><td>2 nectarines (2 do)</td></tr> <tr> <td>4 cherries (2 do)</td><td>2 tomatoes (2 do)</td></tr> <tr> <td>8 pears (7 do)</td><td>2 crab apples (1 variety)</td></tr> <tr> <td>5 plums (4 do)</td><td>1 passion fruit</td></tr> <tr> <td>3 figs (3 do)</td><td>1 cucumber</td></tr> <tr> <td>2 oranges (2 do)</td><td>1 rock melon</td></tr> <tr> <td>2 lemons (2 do)</td><td>1 egg fruit</td></tr> </table> 22 December ... 4 pearls from Fiji.	<i>Mohr.</i>	<i>Breithaupt.</i>	Talc	Talc	Gypsum	Gypsum	Calcite	Mica	Fluorite	Calcite	Apatite	Fluorite	Feldspar	Apatite	Quartz	Hornblende (Amphibole)	Topaz	Feldspar	Corundum	Quartz	Diamond	Topaz		Corundum		Diamond	4 peaches (4 varieties)	2 mandarin oranges (2 varieties)	16 apples (14 do)	2 nectarines (2 do)	4 cherries (2 do)	2 tomatoes (2 do)	8 pears (7 do)	2 crab apples (1 variety)	5 plums (4 do)	1 passion fruit	3 figs (3 do)	1 cucumber	2 oranges (2 do)	1 rock melon	2 lemons (2 do)	1 egg fruit
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APPENDIX IV.
DONATIONS (Specimens).

Date.	Articles Received.	Name of Donor.
1885.		
5 Jan.	Five samples of merino wool from stud sheep of the Parramore Stud Flock.	Mr. Thomas Parramore, Beaufront, Tasmania.
8 " ...	Samples of red and grey granites from Inverness, Scotland.	The Colonial Architect.
13 " ...	Eight samples of pure clothing wools, ewes and hoggets, bred by donor.	Mr. William Hogarth, Balgourie, Queensland.
22 " ...	A specimen of silver ore (sulphide) with gold, from the Comstock Lode, Virginia, Nevada, U.S.A.	Mr. J. M. Fisher, Sydney.
29 " ...	An exhibit of Educational Works for Schools, comprising the following:— Geographical Readers. Geography of New Zealand. History of England. Arithmetics for Schools. Arithmetical Test Cards. Grammatical Test Cards. Text-papers for Geometry and Freehand Drawing. Mental Arithmetic Books. Standard Atlases. Map of Fiji. Knitting Cards for various standards. Science Ladders (3 vols.)	Messrs. George Philip & Son, Liverpool and London.
4 Feb.	Iron ore (limonite septa) from the Northern Ranges of South Australia.	Mr. J. Fairfax Conigrave, Adelaide, S.A.
12 " ...	The following raw vegetable products:— Gardenia grandiflora (fruit). Do do Chica (red pigment from Bignonia Chica). Root of the plant which yields Tokio purple. Balsamocarpon brevifolium (fruits).	Messrs. Burgoyne, Burbidges, Cyriax, and Farries, London.
14 " ...	Three bricks of a patent fuel	Unknown.
18 " ...	Collection of minerals and rocks (including diamond drill bores) to illustrate the geology of the Bay of Islands (New Zealand) Coal-field.	Mr. T. Pearson Moody, Manager Bay of Islands Coal Co., New Zealand.
25 " ...	Seventy samples of Victorian timbers in rectangular blocks, polished on one side, the other in the rough. Following is the list:— Acacia decurrens, common wattle. Do dealbata, silver wattle. Do homalophylla, myall. Do implexa. Do leprosa, vel reclinata, native hickory. Do longifolia. Do melanoxylon, blackwood. Do penninervis. Do pycnantha, golden wattle. Angophora intermedia, spinous apple-tree. Aster argophyllus, musk tree. Aster stellulatus. Atherospermum moschatum. Avicennia officinalis, native mangrove. Banksia marginata, common honeysuckle. Do integrifolia. Do serrata. Busbeckia Mitchellii, native caper. Callitris (Frenela) Endlicheri. Carumbium populifolium. Casuarina quadrivalvis, drooping she-oak. Do suberosa. Drimys aromatica. Elaeocarpus holopetalus. Eucalyptus amygdalina. Do Behriana. Do eucorifolia. Do coriacea. Do fissilis, messmate. Do goniocalyx, spotted gum. Do gracilis. Do hemiphloia.	The Trustees of the Public Library, Museums, and National Gallery of Victoria.

APPENDIX IV—continued.

DONATIONS.

Date.	Articles Received.	Name of Donor.
1885. 25 Feb.....	Eucalyptus largeflorens, yellow box. Do leucoxydon, ironbark Do longifolia, woollybutt. Do macrorrhyncha, stringybark. Do melliodora, yellow box. Do odorata, peppermint tree. Do oleosa. Do piperita, peppermint tree. Do polyanthema, red box. Do radiata. Do stellulata. Do uncinata. Do viminalis, manna gum. Eugenia Smithii, myrtle. Exocarpus sparteus. Heterodendron oleifolium. Hymenanthera Bauksii. Kunzea corifolia. Leptospermum lanigerum. Leptomeria aphylla. Lomatia longifolia. Melaleuca armillaris. Do squarrosa. Myoporum Cunninghamii. Do platycarpum. Myrsine variabilis. Nephelium leiocarpum. Notekea ligustrina. Panax sambucifolius. Persoonia rigida. Pittosporum bicolor. Pomaderris apetala. Podocarpus alpina. Prostanthera nivea. Santalum acuminatum.	
7 Mar.....	Book of woollen yarns, dyed with aniline preparations.	The Consul-General for Germany at Sydney.
9 " ...	Stereotype impressions on sheets of papier-mâché	Professor Liversidge, F.R.S.
9 April ...	Shaly sandstone, Cockatoo Island, Sydney	Mr. John Fagan, Sydney.
	Granite from near Sandhurst, Victoria	Do
	Samples of saline incrustation on vertical boiler	Do
	French silver coin, 50 centimes	Do
24 " ...	One stone tomahawk, found by D. L. Dymock, Esq., in a creek at Jamberoo, New South Wales.	Dr. H. Tarrant, Sydney.
27 " ...	Complete set of the labels which are used in the Museum of the Pharmaceutical Society of Great Britain.	The Council of the Pharmaceutical Society of Great Britain.
27 " ...	Unbaked brick, from clay at the Stanwell Park, George's River, section of Illawarra Railway Line.	T. B. Belgrave, Esq., M.D., M.R.C.S., E., Sydney.
29 " ...	Four slabs 8" square of Saillon marble	Mr. Conrad Staehelin, Consul for Switzerland, Sydney.
	One cylindrical specimen of do	Do do
	One spherical specimen of do	Do do
	(From the quarries of the Société Anonyme des Carrières de Marbres Antiques de Saillon, Canton de Valais, Switzerland.)	
6 May ...	Nineteen specimens of skeins of Japanese raw silk, received by the Agricultural Society of New South Wales from His Imperial Majesty the Emperor of Japan.	The Council of the Agricultural Society of New South Wales.
27 " ...	Sample of a new drug, Rhus tetralin (bark)	Messrs. Thomas Christy & Co., London.
10 June ...	Four samples of stems of Paullinia sp. from Mexico	Do
25 " ...	Leaves of Juglans Columbiana	Do
	Six samples of Chinese teas	Messrs. Griffiths Bros., Sydney and Melbourne.
	One sample Javanese tea	Do
	(The above are rare teas, seldom seen in commerce.)	
	One sample Cape tea (? Cyclopia sp.)	Do
	One sample flowers of Olea fragrans, used to scent teas. (China.)	Do

APPENDIX IV—continued.

DONATIONS.

Date.	Articles Received.	Name of Donor.
1885.		
1 July ...	Specimens of the fruits of the Currajong tree (N.S.W.)	Mr. G. S. Home, Sydney.
6 " ...	Specimens of silver ores from Silverton	Mr. W. T. Hanna, Wilcannia.
9 " ...	A silver coin (one dime) of the United States coinage.	Mr. John Fagan, Sydney.
9 " ...	Twelve ancient Roman coins, found by the donor near Hexham, at the 7th station on the old Roman wall, called Procolitia. These have been examined by Dr. Bruce, who places the date of their coinage between the years 29 B.C. and 14 A.D.	Mr. George Hutchinson, Sydney.
9 " ...	Two samples of European timbers (in sections, polished on one side and hinged), viz.:— Alnus viridis and Pinus maghus.	Messrs. Rabone, Feez, & Co., Sydney.
6 Aug. ...	A collection of minerals consisting of agates, laminated and crystallized quartz, &c., from the Liverpool Plains district, New South Wales.	Mr. W. J. Jaques, Boggabri, N.S.W.
18 " ...	Collection of botanical specimens and some samples of timbers obtained in the neighbourhood of Lake Cudgellico, Lachlan River.	Mr. G. S. Home, Sydney.
19 " ...	Collection showing the manufacture of studs and buttons, &c., from pearl-shell. (This is a recent Sydney industry.)	Mr. John Fagan, Sydney.
25 " ...	Coin (one cent.), dated 1842, of the United States coinage.	Mr. M. P. Hansen, Sydney.
1 Sept. ...	Coin (one penny), dated 1807, of the coinage of Great Britain.	Unknown.
1 " ...	Thirteen miscellaneous specimens of New South Wales minerals, obtained in the vicinity of Inverell, N.S.W.	Mr. J. McIlveen, Inverell, N.S.W.
5 " ...	Bomb-lance, exploded, taken out of a whale killed at Twofold Bay.	Mr. John S. Davidson, Twofold Bay.
24 " ...	Samples of maize grown on a farm on the Manning River.	Mr. J. McDougall, Coopernook, Manning River.
27 " ...	Japanese paper money (10 sen.); value equal to about 4s. English money.	Unknown.
30 " ...	Specimens of the tops of the common broom (Sarthamnus scoparius.)	Mr. Frederick Wright, Sydney.
6 Oct. ...	Botanical specimens collected in the vicinity of Bowral, N.S.W.	Mr. J. H. Maiden, Sydney.
11 " ...	Three spears, barbed with bone, from the Solomon Islands.	Mr. John Fagan, Sydney.
24 " ...	Specimens of baked and unbaked bricks from clay obtained at Hornsby, County of Cumberland.	T. B. Belgrave, Esq., M.D., M.R.C.S.E.
6 Nov. ...	Fleece of greasy combing merino wool (stud ewe) bred by T. L. Richardson, Esq., Murrawombie Station, Duck Creek.	Mr. C. Wilkinson, Granville.
7 " ...	One sample clothing wool ... Sample of Devonshire red marble with embedded fossil.	Do Mr. W. H. Gilding, Balmain, Sydney.
10 " ...	Seven samples of high-class wool (2-tooth ewes) superior combing.	Mr. M. Buchanan, Titanga, Lismore.
14 " ...	One sample of 2-tooth ewes' wool, first combing ... Mineralogical specimens as follows:— Fossil wood, iron pyrites, agate, &c. ...	Do Mr. J. H. Kelly, St. Leonards, Sydney.
16 " ...	Samples of wool of stud sheep, as under:— Eleven samples of stud ewe wool One sample of 4-tooth ram (Sheep bred by R. D. Finlay, Esq., Douglas Park.)	Mr. R. D. Finlay, Douglas Park, Campbelltown, Tasmania.
24 " ...	Four samples of high class wool:— 8-tooth ewe, 4-tooth and 6-tooth (The 6-tooth ewe of whose wool a sample is exhibited, was awarded first prize for best unhoused merino breeding ewe at the Northern Agricultural Society's Show, Tasmania, 1885).	Mr. A. M. McKinnon, Mountford, Longford, Tasmania.
26 " ...	Samples of wool, both washed and in the grease, of ewes and lambs of the Stoneleigh stud flock.	Mr. William Lewis, Stoneleigh, Beaufort, Victoria.
10 Dec. ...	Nine samples of high-class wool. Ewes and rams. Several of the sheep have been prize winners at the Agricultural Shows in Tasmania.	Mr. William Bennett Bloomfield, Ross, Tasmania.
	Two photographs of a ram and ewe ...	Do

APPENDIX IV—continued.

DONATIONS.

Date.	Articles received.	Name of Donor.
1885.		
10 " ...	Seventeen samples of merino wool, both washed and in the grease, of the celebrated Ercildoune breed.	The Manager, Ercildoune Estate, Burrumbeet, Victoria.
16 " ...	Ten samples of high-class wool. Ewes and rams of ages from 2 to 4-tooth. Several of the sheep have been awarded prizes at the Agricultural Shows, Tasmania.	Mr. H. S. Smith, Harland Rise, Tasmania.
22 " ...	A number of candlenuts (<i>Aleurites triloba</i>) from Fiji.	Mr. M. P. Hansen, Sydney.

APPENDIX V.

LOAN.

When received.	Exhibit.	Name of Lender.
1885.		
7 Nov. ...	Marble slab, with florentine inlaid design ...	Mr. William Henry Gilding, Sydney.

APPENDIX VI.

PURCHASES (Books.)

Agriculture.

Library No.

- 1066 Forests and Moisture, or Effects of Forests on Humidity of Climate. (Brown.)
 1067 Reboisement in France; or, Records of the Re-planting of the Alps, Cevennes, and the Pyrenees with trees, herbage, and bush. (Brown.)
 1069 Pine Plantations on the sand-wastes of France. (Brown.)
 1070 The Schools of Forestry in Europe. (Brown.)
 1071 Introduction to the Study of Modern Forest Economy. (Brown.)
 1072 Forestry in the Mining Districts of the Ural Mountains in Eastern Russia. (Brown.)
 1073 The Forests of England and the management of them in by-gone times. (Brown.)
 1074 Finland: Its Forests and Forest Management. (Brown.)
 1075 Forestry in Norway, with notes of the Physical Geography of the Country. (Brown.)
 1076 French Forest Ordinances of 1669. (Brown.)
 1077 Forests and Forestry of Northern Russia and Lands beyond. (Brown.)
 1083 British Apples. (Barron.)
 985 Reports of Observations of Injurious Insects—8th report. (Ormarod.)
 1234 Forests and Forestry in Poland, Lithuania, the Ukraine, and the Baltic Provinces of Russia. (Brown.)
 1246 Agricultural Chemistry. (Sibson.)
 1254 Forestry and Forest Products. Prize Essay of the Edinburgh International Forestry Exhibition, 1884. (Rattray & Mill.)
 1511 Essay on the Formation and Management of Plantations. (Hodson.)

Applied Science and Art.

- 1196 Industrial Curiosities, or Glances here and there in the World of Labour. (Japp.)
 1197 Manuals of Technology. Watch and Clock-making. (Glasgow.)
 1210 The Manufacture of Leather. (Davis.)
 1230 The Art of Leather Manufacture. (Watt.)
 1238 The Printers' Manual. (Lynch.)
 1240 Examples of the Works of Art in the South Kensington Museum. 2 vols. London, 1882.
 1245 An Illustrated Dictionary of Words used in Art and Archaeology. (Mollett.)
 1287 The Practice and Principles of Calico Printing, Bleaching, and Dyeing. 2 vols. (O'Neill.)
 1288 Dyeing and Calico Printing. (Crace-Calvert.)

Botany and Materia Medica.

- 1198 A Manual of Botanic Terms. (Cooke.)
 1251 Preliminary Report on the Forests and other Vegetation of Pegu. (Kurz.)
 1252 Forest Flora of British Burmah. 2 vols. (Kurz.)
 1253 A Manual of Indian Timbers. (Gamble.)
 1510 The Forest Flora of North-West and Central India. (Stewart and Brandis.)
 1510A Illustrations of the Forest Flora of North-West and Central India. (Stewart and Brandis.)
 1512 British Pharmacopœia. London, 1885.
 Illustrations of British Fungi, Nos. 29 to 36. (M. C. Cooke.)

Geology

Geology and Mineralogy.

Library No.

- 1068 Hydrology of South Africa; or, Details of the former Hydrographic Condition of the Cape of Good Hope. (Brown.)
 1043 Manual of Mineralogy and Lithology. (Dana.)
 1065 Water Supply of South Africa and Facilities for the Storage of it. (Brown.)
 1191 The Region of The Eternal Fire. An Account of a Journey to the Petroleum Region of the Caspian in 1883. (Martin.)
 1209 Text Book of Descriptive Mineralogy. (Bauerman.)
 1223 Catalogues of Works, Papers, Reports, and Maps on the Geology and Mineralogy, &c., of the Australian Colonies and Tasmania. (Etheridge & Jack.)
 1228 Manual of Determinative Mineralogy. (Brush.)
 1233 Text-book of Geology. (Geikie.)
 1247 Precious Stones and Gems. (Streeter.)

Literature issued in connection with the International Geological Congress held at Bologne in 1881:—

- 1297 Rapports des Commissions Internationales.
 1298 Discours de M. J. Capellini (President).
 1299 Rapport sur l'unification des procédés. Graphiques en Géologie. (Rervier.)
 1300 Études sur les Formations Ophiolitiques de l'Italie.
 1301 Rapport de la Section Espagnole.
 1302 Congrès Géologique International Compte rendu de la 2^{me} Session. Bologne, 1881.
 1303 Sulla proposta di un Congresso Internazionale Geologico in Italia.
 1304 Osservazioni Malacologiche circa la Nassa Semistriata e N. Costulata del Brocchi. Nota dell' Dott. F. Coppi.
 1305 Del Terreno Tabiano Modenese e de suoi Fossili. (Coppi.)
 1306 Il Sepolcreto di Crespellano nel Bolognese.

Mechanics and Engineering.

- 1041 Stone-working Machinery and the Rapid and Economical Conversion of Stone. (Bale.)
 865A Materials of Engineering.
 Part III. Iron; Ferrous, Metals, and Alloys. (Thurston.)

Mining and Metallurgy.

- 1040 Tin; describing the chief methods of Mining, Dressing, and Smelting it abroad. (Charleton.)

Miscellaneous.

- 1044 A General Dictionary of Geography; forming a complete Gazetteer of the World. (Johnston.)
 1093 A Latin Dictionary, founded on Andrews' Edition of Freund's Latin Dictionary. (Lewis and Short.)
 900 Encyclopedia Americana. Vol. II. (Cen-Fac.)
 1227 Technological Dictionary—English, German, French. 3 vols. (Karmarsch.)
 1250 The Animal Food Resources of Different Nations. (Simmonds.)

Physics, Chemistry, &c.

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- 1492 Monografia sulla Scuola Professionale d'Arti e Mestieri in Savona. (Boldi.)
- 1493 Relazione sullo Stato Morale e Materiale del R. Albergo delle Povere di Palermo.
- 1494 Società delle Scuole Tecniche. Dell'Educazione del Cuore. (Nasi.)
- 1495 Società Italiana per Condotte d'Acqua. Cenni Sopra Alcune fra le opere Eseguite o Proposte dalla Società Italiana delle quali Invia Disegni alla Esposizione.
- 1496 All'Onorevole Giuria della Esposizione. Div. ii, Sez. v, Classe iv.
- 1497 Società Promotrice dell'Industria Nazionale in Torino.
- 1498 Società delle Scuole Tecniche Operaie di San Carlo. Discorso di Giuseppe Chinaglia.
- 1499 Do. do. Discorso di Alberto Porta.
- 1500 Sonometro Misura Matematica del Suono Musicale. (Alessi.)
- 1501 Cenni sugli Oggetti Presentati alla Esposizione dall'Ingegnere Orazio Chiazzari de Torres.
- 1502 Guida-Ricordo di Torino e dell'Esposizione.
- 1503 Alcuni Giorni in Torino. Guida descrittiva Storica Artistica illustrata.
- 1504 R. Scuole superiore Navale in Genova. Dimensioni e dati Principali dei Piroscafi alla Mostra Generale Italiana del 1884.
- 1505 Gli attrezzi di Ginnastica. Un primo passo nelle utili riforme.
- 1506 Dimostrazione del Cloroformizzatore di Romualdo Caffarri.
- 1507 Cenni Storico Statistici sulla Società di Mutuo Soccorso. L'Unione Pio Tipografica.
- 1508 Cenni sul' uso dell'Aneroidi di Montagna.
- 1509 I Nuovi Restauri nell'Archiospedale di S. Spirito in Saxia. Rome, 1868.
- 1513 1883—Wien Bericht über di Internationale Elektrische Ausstellung.
- 1514 1885—Nurnberg. Ausstellung von Kraft und Arbeits Maschinen. Katalog.

APPENDIX VII.

DONATIONS (Books, Periodicals, &c.)

When received.	Title of Work.	Name of Donor.
1885.		
12 Feb. ...	Correspondence relating to the cultivation of silk ... The Ailant Silkworm: observations on its habit, management, food, and value (Brady).	The Government Printer, Sydney.
7 April ...	The Forest Flora of South Australia. Part 5.	" " Adelaide.
15 " ...	Health Culture and the Sanitary Woollen System (Jaeger).	The Author.
16 " ...	Dr. Jaeger's Sanitary Woollen System. Catalogue and price list.	" " "
29 " ...	The Quarries of the Société Anonyme des Carrières de Marbres Antiques de Saillon à Saxon (Valais), Switzerland.	Mr. Conrad Stachelin, Consul for Switzerland at Sydney.
21 May ...	Report on the Silver-bearing Lodes of the Barrier Ranges in the Albert District, New South Wales (Wilkinson).	The Government Printer, Sydney.
2 July ...	A Descriptive Atlas of the Eucalypts of Australia (Mueller).	The Victorian Government, through the Department of Public In- struction, Sydney.
7 " ...	Second Report of the Royal Commissioners on Tech- nical Instruction. Vol. IV. Evidence relating to Ireland.	The Agent-General for New South Wales, London.
9 " ...	The Timber Trees of New South Wales (Nilson) ... The Industries of New South Wales (Lyne) ...	The Government Printer, Sydney.
22 " ...	A Pamphlet on some New South Wales Minerals (Liversidge).	The "Author." "
	A Pamphlet on the Chemical composition of certain Rocks of New South Wales (Liversidge) ...	" "
29 " ...	Fish and Fisheries of New South Wales (Tenison Woods)	The Government Printer, Sydney.
	New South Wales in 1881 ...	" " "
26 Aug. ...	The Forest Flora of South Australia (Brown).	" " Adelaide.

A.—Calendars, Prospectuses, &c.

Jahresbericht der Handel-Skammer für den Kreis Essen, 1882. Presented by C. L. Sahl, Esq.,
Consul-General for Germany at Sydney.

Massachusetts Institute of Technology, 20th Annual Catalogue. Presented by the Secretary.

Worcester Free Institute. Annual Catalogue, 1885. Presented by the Principal of the Institute.

B.—Catalogues and Miscellaneous Publications of Educational Institutions:—

Australian Museum:—

Catalogue of the Australian Hydroid Zoophytes. (Bale.)
Presented by the Trustees.

Industrial and Technological Museum, Melbourne:—

Descriptive Catalogue of the Specimens of Victorian Timbers in the Museum.
Presented by the Trustees.

Royal Society of Tasmania:—

Catalogue of the Library.
Presented by the Council.

Nederlandsch Handel's Museum te Amsterdam:—

Catalogue.
Presented by the Director.

C.—Report of Educational Institutions, &c. Proceedings of Societies:—

Journal and Proceedings of the Royal Society of New South Wales for 1882, vol. xvi.
Presented by the Government Printer.

Annual Report of the Department of Mines, New South Wales, for 1883 and 1884.
Presented by the Government Printer.

Massachusetts Institute of Technology. President's Report, December 10th, 1884.
Presented by the Secretary.

Annual Report of the Chief of Engineers, United States Army. Parts i, ii, iii, 1882. 3 vols.
Internal Commerce of the United States, 1882.

Report on the Statistics of Labour in the United States, 1884.

Proceedings of the United States National Museum. Vol. 3, 1880.

Report of the Director of the Mint, 1879 and 1880. 2 vols.

Contagious Diseases of Swine and other Domestic Animals in the United States, 1880.

14th Annual Report of the Regents of the University of the State Cabinet of Natural History,
New York, made to the Assembly April 10th 1861.

Presented by Messrs. Trübner & Co., of London.

New South Wales 1884. Report, Minutes of Proceedings, &c., of the Wood Pavement Board.
Presented by Professor Liversidge, F.R.S. Papers



- Papers and Proceedings of the Royal Society of Tasmania for 1884.
Presented by the Council.
- Proceedings of the National Tariff Convention held at the Cooper Institute, New York, 1882.
Under valuation of Wool and Woollen Yarns. Letter from the Secretary of the Treasury at Washington.
Presented by Messrs. Trübner & Co., of London.
- The School of Mines, Sandhurst. Annual Report for 1884.
Presented by the Trustees of the School of Mines.
- Art in the United States of America. (Rand.)
Art in England, Ireland, and Scotland. (Rand.) New York, 1884.
Presented by Messrs. Trübner & Co., of London.
- Proceedings of the Geographical Society of Australasia. (New South Wales and Victorian Branches, 1883-4.)
Presented by the Council.
- Report on the Progress and Condition of the Botanic Garden and Government Plantations, Adelaide, during the year 1884.
Presented by R. Schomburgk, Esq., Ph. D., Director.
- The School of Mines, Ballarat. Annual Report, 1884.
Presented by the Council.
- 23rd Annual Report of the Liverpool School of Science. Session, 1883-4.
Presented by the Honorary Registrars.
- Customs Statistics of New South Wales for 1883, with Comparative Tables of Revenue and Consumption, Imports, and Exports, &c., also Decennial and other Tables.
1883-4 New South Wales. Census of 1881—consisting of Reports, Summary Tables, Appendices, and Conspectus Tables.
Presented by the Government Printer.
- Statistical Register of New South Wales for 1883.
Presented by the Government Printer.
- City and Guilds of London Institute:—
Programme of Technological Examinations, 1884-85.
Report to the Governors, March 15th, 1885.
Presented by the Secretary of the Institute.
- Official Record of the New South Wales Commission for the Calcutta International Exhibition, 1883-84.
Presented by the New South Wales Commission for the Exhibition.
- Public Library, Museums, and National Gallery of Victoria. Report of the Trustees for 1884.
Presented by the Trustees.
- D—Patents Literature. Presented by Her Majesty's Commissioners of Patents:—
Abridgment of specifications relating to metals and alloys. Part Ia. 1869-1866.
Do do Railways. Part II. 1867-76.
Do do preparation of India-rubber and gutta percha. Part II. 1867-76.
Do do Starch, gum, and other stiffening and adhesive materials. Parts I and II. 1817-1876.
Do do preparing and cutting cork, &c. Part II. 1867-76.
Do do Artificial leather, floorcloth, oilcloth, oilskin, &c. Part II. 1867-76.
- Subject matter Index of Applications for Letters Patent. January 1 to October 30, 1884, and January 1-30, 1885.
- Alphabetical Index of Patentees and Applicants for Patents of Invention, July 1st, Nov. 30, 1884, and Jan. 1-31, 1885.
- The Official Journal of the Patent Office. Nos. 67-8, 70-75, 77-8, 82-86, 88-95, 96-98, 101-3, 105-125.
- Index to the Official Journal of the Patent Office for 1884.
- E.—Periodicals:—
The Publishers of the following Journals have generously continued to contribute copies of their publications to the Reading-room of the Museum during the year, viz.:—
Amateur Photographer (London).
American Artisan (Chicago).
American Mail and Export Journal (New York).
American Monthly Microscopical Journal (New York).
Bookseller (London).
Boot and Shoe Trades' Journal (London).
Brewers' Guardian (London).
British and Colonial Printer and Stationer (London).
British Mercantile Gazette (London).
British Trade Journal (London).
Builders' Weekly Reporter (London).
Building World (London).
Buletino Telegrafico (Rome).
Cabinetmaker (London).
California Architect (San Francisco).
Canadian Magazine (Montreal).
Chemical Review (London).
Colliery Guardian (London).
Co-operative Index to Periodicals (London).
Decorators' Gazette (London).
Educational Record (London).

Engineering (London).
 Fireman (London).
 Forestry (Edinburgh).
 Gas and Water Review (London).
 Hatters' Gazette (London).
 Horological Journal (London).
 Ironmonger (London).
 Ironmonger Supplement (London).
 Iron (London).
 Iron Age (New York).
 Index Medicus (New York).
 Jeweller and Metal-worker (London).
 Knowledge (London).
 La Lumière Electrique (Paris).
 Library Journal (New York).
 Literary News (New York).
 London Iron Trade Exchange (London).
 Manufacturer and Builder (New York).
 Martineau & Smith's Hardware Journal (Birmingham).
 Mechanical News (New York).
 Mineralogical Magazine (London).
 Mining Engineer for Devon and Cornwall (Cornwall).
 Oil and Colourman's Journal (London).
 Paper-makers' Monthly Journal (London), together with the Annual Directory of Paper-makers.
 Paper-makers' Circular (London).
 Paper Trade Journal (New York).
 Paper Trade Review (London).
 Pottery Gazette (London).
 Printers' Register (London).
 Publishers' Weekly (New York).
 Revue Coloniale Internationale (Amsterdam).
 Sanitary Record (London).
 Sanitary World (London).
 Scientific American (New York).
 Sugar-cane (Manchester).
 Stationery Trades' Journal (London).
 Tanners' and Curriers' Journal (London).
 Telegraphic Journal and Electrical Review (London).
 Textile Recorder (Manchester).
 Textile World and Yorkshire Inventor (Bradford, Yorkshire).
 Timber Trades' Journal (London).
 Therapeutic Gazette (Detroit, Michigan, U.S.A.).
 Tropical Agriculturist (Ceylon).
 Wool and Textile Fabrics (London).

The Publishers of the following have been good enough to occasionally forward copies of their Journals to the Museum:—

British Mail (London).
 Implement and Machinery Review (London).
 Mechanical Progress (London).
 Paper-making (London).
 Plumber and Decorator (London).
 Railroad Gazette (New York).
 Railway Review (Houston, Texas).

NOTE.—Periodicals for the current year are placed, for the convenience of the public, in adjustable binders, and in juxtaposition to the bound volumes of past years.

F. Trade publications:—

A very large number of companies, private firms, and individuals have been good enough to forward copies of price-lists, illustrated catalogues, descriptions of processes or industries, &c., to which visitors to the Museum are at any time at liberty to refer.

APPENDIX VIII.

PURCHASES (Diagrams, Maps, Photographs, &c.)

When received.	Description.
1885.	
22 January ...	Coloured Drawings on cartridge paper of the following :— 35-ton Steam Hammer (Woolwich Arsenal). Lime Tunnel Kiln.
22 " ...	Blast Furnace. Cupola Furnace.
30 " ...	Coloured Diagrams :— Blast Furnace, section at base. Cupola Furnace, do Do
6 February ...	Puddling Furnace. Blast Furnace Two sections of a Blast Furnace.
11 " ...	Lime—simple Flare Kiln 2 Diagrams of Portland Cement Kiln. 2 do Lime Flare Kiln.
11 " ...	Large Coloured Diagrams of :— Tobacco Plant in Flower. Nutmeg do
16 " ...	Les Arts décoratifs de l'Asie Centrale. Recueil de 50 Planches en Chromolithographie, avec texte explicatif, par N. Simakoff.
16 " ...	L'Ornement Russe dans les anciens produits de l'Art Industriel National, par N. Simakoff.
31 March ...	Large Coloured Diagrams of useful Plants :— Tea, Coffee, Cotton, Cocoa, Arnica, Benzoin, Gentian, Cinnamon, Chinese Cinnamon.
31 " ...	Large Coloured Diagrams :— Roman Cement Kiln (2).
14 and 15 April..	Large Coloured Diagrams of Apparatus used in Gold-washing :— Under-current Sluice. Horse-power Puddling Machine. Horse-whim. Gold-washing Pan and Cradle. Multiple Sluices. Rhine Gold-washing Apparatus. Gold-washing Tom (Californian). Box Sluice, showing false bottom (Gold).
17 " ...	Miscellaneous Diagrams :— Synoptic Table of the Measures and Weights of the Metric System, with English equivalents; by Charles H. Dowling, C.E. Johnston's Illustrations of Natural Philosophy; by William Lees, M.A. :— Sheet No. 1. Properties of Bodies. " 3. Hydrostatics. " 4. Hydraulics. " 5. Human Anatomy and Physiology. Plate i. " 6. Do do Plate ii. " 7. Steam Boilers. " 7a. Steam Engines. Johnston's Illustrations of Light and Heat :— Sheet No. 2. Light. Sheets Nos. 3 and 4. Heat. Johnston's Illustrations of Electricity and Magnetism :— Sheet 2. Frictional Electricity. " 3. Voltaic Electricity. " 4. Electric Telegraph. " Electro deposition of Metals. Johnston's Illustrations of Chemistry :— Sheet No. 1. Elementary Bodies, with their Symbols, Atomic Weights, and Quantivalence, Metalloids, and Metals. Sheet No. 2. Chemical Physics. Johnston's Illustrations of Zoology :— Sheet 2. Echinodermata, Scolecida, and Annulosa. " 3. Molluscoida and Mollusca. " Vertebrata. Johnston's Illustrations of Botany :— Sheet 2. Leaves and their modifications. " 3. Inflorescence, whorls of the Flower. " 4. Pistil, Ovule, Fruit, Seed, Organs of Flowerless Plants. Johnston's Illustrations of Astronomy :— Sheet 1. The Solar System. " 2. Astronomical Diagrams.

APPENDIX VIII—*continued.*PURCHASES (Diagrams, Maps, Photographs, &c.)—*continued.*

When received.	Description.
1885. 17 April ...	Miscellaneous Diagrams—<i>continued.</i> Sheet 4. Map of the Heavens. Johnston's Illustrations of Natural History :— Sheet 2. Birds. " 3 Reptiles, Amphibians, and Fishes. " 4. Invertebrate Animals. " 5. Mineralogy and Palæontology. Betts' Portable Terrestrial Globe, compiled from the latest and best authorities.
22 " ...	The following Diagrams and Drawing Models, &c., were purchased in Italy :— <i>Published in Switzerland :—</i> Anschauungsbilder der Schweiz (9 chromolithographic scenes near Berne, Switzerland). Wettstein's Wandtafeln für den Unterricht im Freihandzeichnen, Abtheilung ; Primarschulen. 84 Plates. Zurich, 1881. Do. B. Sekundarschulen. 84 Plates. Zurich, 1883. Naturkundliche Tabellenwerk. <i>Published in Germany and Austria :—</i> Geographische Characterbilder, 12 parts. (Hölzel.) Bilder zur Geschichte, 1^{er} Cycles, 19 sheets. (Langl.) " Supplements i and ii. (Langl.) Wandtafeln der Pflanzen. (Schreiber.) " Gift-gewachae. 1^{er} Theil, Samenpflanzen. " Pflanzen. 11^{er} Theil, Polze und Schwammer (Schreiber.) " Gift-gewachae Mineralrich. (Schreiber.) Elementar Ornamente. Parts i to xii. (Taubinger.) Ornamente. Parts i to xii. (Taubinger.) Blumen. Parts i to xviii. (Taubinger.) Säulenordnung. Parts i to ii. (Taubinger.) Thiere. Parts i to xxviii. (Strassschwendter.) <i>Maps and Atlases printed in Switzerland :—</i> Carte Topographique de la Suisse en 25 feuilles (Dufour). Karte vom Kanton Zurich, 32 sheets. Carte Topographique du Canton de Genève, 4 feuilles. Karte vom Kanton Aargau, Thurgau, Basel, St. Gallen, Schaffhausen, Schwitz, und Zug, Tessin. Historische Karte der Schweiz. Relief Karte der Schweiz. (Beck.) " (Leuziger.) Hypsometrische Karte der Schweiz (Zugler.) Karte der Rohprodukte der Schweiz. Schulkarte der Schweiz für die Primarschulen. B. Orohydrographisch. (Randeyger.) Schulkarte der Schweiz im Kantonen eingetheilt (political and orographical). (Randeyger.) Schulkarte des Kantons Zurich. (Randeyger.) " der Schweiz. (Randeyger.) Industrie Karte der Schweiz, 1882. Geologische Karte der Schweiz. (Studer.) Carte de la distribution de glacier en Suisse, 4 feuilles. (Farre.) Carte murale de l'Europe. (Magneriat.) Schulatlas in 29 Blätter für Sekundarschulen. (Randegger.) <i>Printed in Germany :—</i> Kleines Schulatlas. (Keipart.) Historischer Atlas. (Putzgier.) Karte von Europa. (Stulphagel.) Erdkarte. (Sydon.) Karte von Europa. (Sydon.) Karte von Australia. (Sydon.) Karte von deutschen Reich. (Wagner.) <i>Printed in France :—</i> Carte topographique du Department de la Seine. Paris et Environs. Thirty-six sheets. Norwell atlas élémentaire de géographie moderne à l'usage des écoles primaires. (Isleit.) Atlas d'histoire Suisse à l'usage des Ecoles. (Gerster.)

APPENDIX VIII—continued.

PURCHASERS (Diagrams, Maps, Photographs, &c.)—continued.

When received.	Description.
1885.	Miscellaneous Diagrams—continued. <i>Published under the direction of the Science and Art Department, South Kensington :—</i>
24 April	Fifty Etchings of Objects of Art in the South Kensington Museum ; done by Students in the Training Class directed by Richard J. Lane, A.R.A. Series I to V, 1867-69.
	Chromolithographs of the principal Objects of Art in the South Kensington Museum. Part II (continuation).
	Ancient and Mediæval Carved Ivories. 1872.
	Ancient Needle-point and Pillow Lace, with notes on the History of Lace-making, and description of thirty examples ; by Alan S. Cole, 1875.
	Ecclesiastical Metal-work of the Middle Ages ; with an introductory notice of the vessels, &c. used in the service of the Mediæval Church. Twenty photographs, 1868.
	Decorative Furniture, French. Twenty photographs, 1871. English, Italian, German, Flemish. Twenty photographs, 1871.
	Fans of all Countries. A series of twenty photographs of Spanish, French, German, Italian, and English Fans, 1871.
	Designs for Silversmiths. A series of twenty-four autotype reproductions of original designs for Vases, Ewers, Salvers, &c., selected from the collection in the National Art Library, South Kensington Museum.
	Reynold's Chemical Diagrams, Chemical Physics, Organogens or Generators of Organisation.
9 May	Chromolithographs of the Principal Objects of Art in the South Kensington Museum. Part IV.
26 June...	Large Coloured Diagrams of Gold-washing Apparatus, continued :—
	New Zealand Beach Box.
	Combined Cradle and Puddling Machine.
	Puddling Furnace, two sections.
15 July ...	Diagram to illustrate the harmonious relation of Colours ; prepared by the Science and Art Department, South Kensington.
	Stanford's Map of the Seat of War in Afghanistan.
	Large Scale Map of the Nile from Dongola to Khartoum.
	New Guinea or Papua.
	South African Colonies.
	Graphic Illustrations of Animals, showing their utility to Man.
3 August	Johnston's Commercial Map of the World on Mercator's Projection.
	Chart of Magnetic Deductions, Polar Regions.
	<i>Purchased in Germany :—</i>
	Collection of Botanical Diagrams.
19 "	Globe, with semicircular brass protecting and attachment plate.
	Collection of Botanical Diagrams (coloured). of the most important Cereals.
	Berghau's Physikalischer Atlas. Bands I and II.
	Series of Geographical Charts.
24 ,	Diagrams of Gold-washing Apparatus continued :—
	Six Tuyered Refinery. Vertical section. Gold.
	Sectional Plan.
24 "	Large Coloured Botanical Diagrams of Useful Plants :—
	Citron, Bitter Orange, Sweet Orange, Bergamot, Lemon, Manila Elemi, Guarana, Bael.
13 October	Royal Relief Atlas. Thirty-one maps. (Bevan.)
	Il Tesoro di San Marco in Venezia (consisting of eighty-nine Lithographs and Heliographs.)
	Lithographic Drawings of Fittings for Chemical Laboratories.
6 November	Atlas of thirty-five Maps, showing the Natural Productions of Austria, with descriptive text by Dr. Lorenz von Liburnau.
	Topographische Atlas von het Koninkrijk de Nederlanden.
	Series of forty unmounted Photographic Views of the Zurich Landesausstellung, 1883.
	Strade Ferrate dell Alta Italia, Album delle Locomotive, Torino, 1884 ; seventy-three plates ; Album dei Carri, sixty-two plates ; Album della carrozze, fifty-four plates. 3 vols.

APPENDIX IX.
DONATIONS (Diagrams, Maps, Photographs, &c.)

When received.	Description.	Name of Donor.
1885. 7 Jan. ...	Atlas of the British Empire in Europe, Asia, Oceania, Africa, and America; with descriptive letter-press by K. Johnston, LL.D. Johnston's Geographical Handbooks:—Australia, British North America, South Africa. Johnston's Fourth Standard Physical and Political Geography of the British Isles, British North America, and Australasia.	Messrs. W. & A. K. Johnston, Edinburgh. Do do Do do
29 „ ...	Maps and Atlases published by G. Philip and Son:—Excelsior Atlas, Favourite Atlas, and Standard Atlas, Nos. 1-4. Elementary Atlas and Geography. Popular Atlas. New Edition. Authentic Map, Fiji. First New Zealand Geography.	Messrs. G. Philip & Son, Liverpool and London.
7 March ...	Photograph of the locality where Hume's Party sighted the Murray, showing also the monument erected to their memory.	Mr. W. B. Nicholas, Bundanoon, New South Wales.
21 May ...	Map of the Silverton Mining Country, in the Barrier Ranges, Albert District, New South Wales.	The Government Printer, Sydney.
2 July ...	Requisition Forms used by the London School Board (six forms).	The London School Board.

APPENDIX X.
EXCHANGES (Inwards).

Date.	Description of Exhibit.	From whom received.
1885. 31 Mar. ...	Three diagrams, as follows:— One, to show the process in the liquefaction of Gases. Two, to illustrate the manufacture of Sheet and Crown Glass.	Professor Liversidge, F.R.S.
17 Aug. ...	Suit of Ancient Armour; breastplate and harness covering the body and legs, but wanting the helmet.	The Trustees of the Australian Museum.

APPENDIX XI.
EXCHANGES (Outwards.)

Date.	Description of Exhibit.	To whom sent.
1885. 19 Mar. ...	A collection of about 200 miscellaneous Vegetable Products, consisting chiefly of roots, barks, leaves, flowers, fruits, seeds, and some fibres of plants, having uses in the arts and manufactures.	The Chamber of Manufactures, Adelaide.
19 „ ...	A collection of about 150 Botanical Specimens, chiefly of plants indigenous in the neighbourhood of Sydney.	Charles Bailey, Esq., F.L.S., Manchester.

J. H. MAIDEN,
Curator.

