

1885.

NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(REPORT OF THE TRUSTEES FOR 1884.)

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-first Annual Report.

1. The Museum has been, during the year 1884, as in previous years, open to the public daily; except on Mondays, when it is necessarily closed for the purpose of cleaning. The largest attendance on any one day was on the 26th December, when 1,643 persons were registered at the doorway. The greatest Sunday attendance was 1,315, on the 13th April. The average daily number of visitors throughout the year was 262 on week-days and 853 on Sundays. The total for the year is 126,040.

2. The collections are still being increased, by means of purchases, exchanges, collecting expeditions, and donations. A list of these additions, under their separate heads, will be found in Appendices V, VI, VII, VIII. Among these may be specially mentioned several pairs of large Antelopes from South Africa; a full grown Ourang-outang of the larger species (*Simia satyrus*), and several of the smaller species (*S. morio*); a fine specimen of the Chimpanzee (*Troglodytes niger*); two Whales, one from Kiama (*Physeter macrocephalus*), and one from the coast of England, belonging to the extremely rare species known as Rudolf's Whale (*Balaenoptera borealis*); Casts of gigantic fossil remains from the British Museum, including *Elephas ganesa*, *Mastodon andium*, *Toxodon platensis*, *Sivatherium giganteum*, *Megalanina prisca*, &c.; and large and important Ethnological collections.

3. Great alterations and improvements have been effected by the erection of additional wall-cases, constructed upon the best principles and at considerable cost, for the reception of large collections of skeletons, and Australian fossil remains; and for groups of Birds of Paradise, and other exhibits of great interest from New Guinea and elsewhere. Additional cases and cabinets have been provided for the mineral collections, and others are in course of construction for similar purposes.

4. Want of sufficient space in the present building is still felt as a serious drawback to the usefulness of the Museum. The Trustees nevertheless gladly express their obligation to the Government for the provision now made for further accommodation. An additional shed has been erected, which is used as a store for timber and other material. A large iron workshop has also been provided, and another of similar dimensions is in course of erection. These are to be used for the storage of spirits and bottles, and for workrooms in connection with spirit specimens.

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; but no new publications have been issued during the past year.

6. Mr. Ramsay's visit to Europe in connection with the International Fisheries Exhibition enabled him to examine various Museums, Zoological Stations, and Aquaria, and has been productive of much advantage to this Museum. A report, with particulars of his proceedings and details of his arrangements for purchase and exchange of specimens, will be found in Appendix XI.

7. The exhibits which were sent to the Calcutta Exhibition have been presented by the Trustees to the Government of India.

8.

8. The Teaching Collection, consisting of skeletons, models, and specimens illustrative of Comparative Anatomy and Natural History, which for some years past occupied the north room in the upper floor of the Museum, has been transferred to the University. This collection was specially prepared for teaching purposes, and as most of the specimens were already represented in the Museum, and it occupied space which could be better used for the display of other objects of interest, the Trustees felt themselves justified in making the transfer. Although this collection is now at the University, its ownership remains with the Trustees.

9. There has been no change in the Board during the year, by death or otherwise.

10. 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.
- X.—Duplicate Books.
- XI.—Mr. Ramsay's Report.

L.S.

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

S. SINCLAIR,
Secretary.

ALFRED STEPHEN,
Crown Trustee and Chairman.

APPENDIX I.

BALANCE-SHEET of the Trustees of the Australian Museum, for the year ending 31st December, 1884.

RECEIPTS.	£	s.	d.	£	s.	d.	EXPENDITURE.	£	s.	d.	£	s.	d.	
Balance from 31st December, 1883				2,924	5	7	Collection of specimens	139	5	0				
From the Colonial Treasurer—							Searching for remains of extinct animals	3	4	6				
Parliamentary Appropriation	6,550	0	0				Purchase of specimens	465	15	8				
Statutory Endowment	1,000	0	0				" large mammals	118	3	0				
For expenses in connection with the							" ethnological specimens	354	0	0				
International Fisheries Exhibition	1,200	0	0				" books	672	6	3				
				8,750	0	0	" building-stones	39	6	7				
Guides and Catalogues sold				30	11	0	Show-cases	1,523	6	7				
							Bottles	111	8	10				
							Furniture	99	17	3				
							Travelling expenses	18	2	0				
							Formation of catalogues	686	5	4				
							Opening the Museum on Sundays	200	0	0				
							Curator's salary	600	0	0				
							Assistants	225	3	4				
							Ticket-writer	200	0	0				
							Night watchman	116	13	4				
											5,572	17	8	
							Refunds to the Colonial Treasurer				1,365	6	6	
							Endowment account—							
							General salaries	1,061	16	0				
							Secretary	275	0	0				
							Taxidermist's materials	18	14	0				
							Chemicals	81	0	10				
							Stationery	21	7	4				
							Charges, exchanges, postages, &c.	7	14	7				
							Freights and Customs charges	125	7	10				
							Sundries	12	6	8				
							Ironmongery	32	0	7				
							Insurance	22	10	0				
							Timber	2	5	2				
							Fuel	15	2	4				
							Scientific apparatus	33	6	5				
							Advertising	3	10	0				
							Printing	10	19	7				
							Uniforms	27	7	10				
											1,750	9	2	
							Fisheries Exhibition expenses				213	15	1	
							Balance				£	8,902	8	5
												2,802	8	2
											£	11,704	16	7
			</											

12 January, 1885.

Examined and found correct.

 ROBERT HUNT,
 H. H. B. BRADLEY, } Auditors.

APPENDIX II.

ATTENDANCE OF VISITORS DURING 1884.

	Week-days.	Sundays.
January	9,815	3,216
February	5,335	3,038
March	5,779	3,848
April	8,461	3,901
May	6,547	3,887
June	6,699	4,457
July	7,174	4,023
August	6,273	4,836
September	5,584	3,414
October	6,014	3,276
November	6,199	3,721
December	7,773	2,770

81,653 44,387

Total 126,040

Attendance for 1883—

Week-days...	86,114
Sundays ...	51,287

Total 137,401

APPENDIX III.

APPENDIX III.

ATTENDANCE OF THE TRUSTEES DURING 1884.

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	...	...	...	...	3
The Collector of Customs	...	...	...	...	0
The Surveyor-General	...	...	...	...	0
The Colonial Architect	...	...	...	...	0
The President of the Medical Board	...	...	...	...	8

Crown Trustee.

The Honorable Sir Alfred Stephen, G.C.M.G., C.B., M.L.C.	...	14
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Elective Trustees.

J. C. Cox, Esq., M.D., F.L.S.	...	...	...	...	11
J. Belisario, Esq., D.D.S.	...	...	...	...	5
A. Liversidge, Esq., F.R.S., Professor of Chemistry and Mineralogy, Sydney University	...	...	...	...	6
The Hon. Jas. Norton, M.L.C.	...	...	...	...	14
Sir Alfred Roberts, M.R.C.S., Knt.	...	...	...	...	3
H. H. B. Bradley, Esq.	...	...	...	...	10
Robert Hunt, Esq., F.G.S.	...	...	...	...	15
Chas. Moore, Esq., F.L.S.	...	...	...	...	7
C. S. Wilkinson, Esq., F.G.S.	...	...	...	...	9
The Hon. P. G. King, M.L.C.	...	...	...	...	3
The Hon. W. A. Brodribb, M.L.C.	...	...	...	...	3
W. J. Stephens, Esq., M.A., Professor of Natural History, Sydney University	...	...	...	...	6

Number of Board Meetings during the year ... 25

APPENDIX IV.

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

Mammals.

13 specimens skinned and made up.	6 specimens grouped.
69 specimens skinned, preserved, and mounted.	1 group repaired.
9 specimens remade and restored.	

Birds.

11 specimens skinned, preserved, and mounted.	18 specimens grouped.
3 specimens remade and restored.	146 specimens skinned, preserved, and made up.

Fishes.

16 specimens skinned, preserved, and mounted.	1 specimen set up.
19 specimens skinned, dressed, and preserved.	2 specimens remade and restored.

Skeletons.

Mammals—8 specimens set up.	Reptiles—1 specimen set up.
5 specimens cleaned and mended.	Fishes—8 specimens mounted and set up.
Birds—1 specimen made up.	Skull—1 mended.
Reptiles—2 specimens repaired.	

Moulds and Casts.

Minerals—10 casts of nuggets of gold.	Skulls—8 moulds.
Fossils—15 moulds.	9 casts.
9 casts.	

Photographs.

88 Negatives.	423 Prints.
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APPENDIX V.

APPENDIX V.

SPECIMENS COLLECTED.

By J. A. THORPE and J. HARRIS.
Birds :—8 species—18 specimens.

By J. A. THORPE and G. H. BARROW.
Birds :—10 species—24 specimens.
Mammals :—1 species—2 specimens.

By J. A. THORPE.
Birds :—27 species—59 specimens.
Mammals :—2 species—2 specimens.
Mollusca :—20 specimens.
Insecta :—12 specimens.
Fossils :—Collection of Spirifer.

APPENDIX VI.

SPECIMENS PURCHASED.

Mammals :—35 species—58 specimens.
Birds :—288 species—402 specimens.
Reptiles and Amphibia :—101 species—242 specimens.
Fishes :—1,277 species—1,699 specimens.
Insecta :—5 species—15 specimens.
Crustacea :—10 species—32 specimens.
Mollusca :—26 species—76 specimens.
Echinodermata :—15 species—90 specimens.
Vermes :—1 species—1 specimen.
Zoophyta and Spongida :—37 species—92 specimens.
Skeletons (mammals) :—11 species—14 specimens.
Skulls :—2 species—24 specimens.
Casts :—3 specimens.
Fossils and Minerals :—587 specimens.
Fishes, Cœlenterata, &c. :—112 species—119 specimens.
Hydromedusæ :—37 specimens.

Ethnological Specimens.

1,933 specimens from Bouka Island.
198 " " Solomon Islands.
87 " " Zululand.
34 " " South Africa.
49 " " Marshall and Gilbert Islands, N.H.
31 " " South Australia.
27 " " Australia.
11 " " Admiralty Islands.
1 " " Lachland Island.
156 " " New Britain.
27 " " New Hebrides.
11 " " New Ireland.
8 " " Bougainville Island.
4 " " Society Islands.
45 " " Fiji.
12 " " Indian Archipelago.
5 " " New Zealand.
3 " " Tonga.
1 " " Samoa.
15 " " South Sea Islands.
1 " " Ceylon.
1 " " India.
1 " " Efate.
1 " " Line Islands.
1 " " Kingsmill Group.
13 " " Mont Beaupres-beaupres.
4 " " America.
4 " " Japan.
4 " " Persia.
3 " " Turkey.
40 " " New South Wales.
4 " " Madagascar.
1 " " Eromanga.
2 " " Arabia.
4 " " Africa.
14 " " New Guinea.
10 " " North America.
1 " " King's Group.
10 " " Queensland.
5 " " Thursday Island.

APPENDIX VII.

APPENDIX VII.

EXCHANGES.

Received from.	Forwarded to.
	Tokio Museum.
	Mollusca :—111 species.
	F. Bouvier.
	Mollusca :—111 species.
	P. Bouvier.
	Insecta :—64 species—224 specimens.
	C. F. Ancey.
Shells :—40 species—77 specimens.	
	G. E. Mason, London.
Mammals :—3 species—5 specimens.	Amphibia :—3 species—3 specimens.
	Canterbury Museum, Christchurch, N.Z. (Dr. J. von Haast, F.R.S.)
Reptiles :—1 species—2 specimens.	Mammals (skeletons) :—2 species—4 specimens.
Echinodermata :—22 species—46 specimens.	Echinodermata—20 species—66 specimens.
	Ethnological :—59 specimens.
	Queensland Museum.
Fishes :—1 species—1 specimen (Saw-fish).	Fishes :—1 skeleton of Shark.
	F. Ratte.
Ethnological :—7 specimens from New Caledonia.	Boxes :—200 glass-top boxes.
„ 2 „ Australia.	
	Hobart Museum.
Fishes :—63 species—161 specimens.	Mammals :—17 species—18 spec. (Australian).
Crustacea :—2 species—3 specimens.	„ 18 „ 18 „ (Foreign).
	Fishes :—1 species—1 specimen.
	Cast of Egg of Aepyornis.
	Captain Braithwaite.
Ethnological :—61 specimens.	Shells :—81 species—about 275 specimens.
	C. E. Beddome.
Mammals :—9 species—17 specimens.	Boxes :—1,604 glass-top boxes.
	Professor Gilioli, Florence.
	Mammals :—5 species—7 specimens.
	Birds :—12 species—16 specimens.
	Reptiles and Amphibia :—2 species—4 specimens.
	Fishes :—80 species—83 specimens.
	Casts :—6 specimens of Skulls and Faces.
	Ethnological :—145 specimens.
	Professor Tyler.
Echinodermata :—15 species.	
Zoophytes :—Corals—19 species.	
	Felix Ancey, Esq.
Coleoptera :—A collection of.	
	Indian Museum.
	Mammals :—19 specimens.
	Birds :—249 specimens.
	Reptiles :—2 mounted groups.
	Fishes :—17 specimens.
	Ethnological :—56 specimens.
	E. Gerrard, junr.
Mammals :—1 species—1 specimen.	Birds :—5 species—6 specimens.

Received from.	Forwarded to.
C. French, Melbourne.	
Insecta :—Collection from S.W. Australia.	Reptiles :—4 species—4 specimens.
" " Victoria.	Specimens of White Ants and Nest.
Royal Museum, Brussels.	
Fishes :—34 species—50 specimens.	
Mollusca :—284 species—2,591 specimens.	
Fossil Shells :—233 species—1,470 specimens.	
Paris Museum.	
Birds :—107 species—134 specimens.	
Reptiles and Batrachians :—70 species—81 specimens.	
Fishes :—102 species—164 specimens.	
Shells :—About 580 specimens.	
Vienna Museum.	
Fishes :—35 species—54 specimens.	Fishes :—90 species—92 specimens.
Nicholas Dunstan, Sydney.	
Minerals :—5 specimens.	Minerals :—6 specimens.
British Museum.	
Zoophyta :—Collection of Corals, &c.	Mammals :—1 species—1 specimen.
Casts :—2 casts of Thylacoleo.	Birds :—Collection of Waders and Sea Birds.
" 1 cast of Toxodon platensis.	Fishes :—51 species—51 specimens.
" 5 casts of Megalania.	Crustacea :—Collection of.
" 1 cast of Archaeopteryx.	Mollusca :—17 species—41 specimens.
	Zoophyta :—2 species—3 specimens.
	Bryozoa :—Collection of.
	Echinodermata :—Collection, wet and dry.
	Casts :—10 fossil casts of Thylacoleo.
Zoological Station, Naples.	
Books :—	Books :—Proceedings of Linnean Society, New South Wales, Vols. I, II, III, and VII.
F. Beveridge.	
Birds :—18 species—19 specimens.	Birds :—13 species—13 specimens.
W. F. Petterd, Tasmania.	
Mammals :—7 species—15 specimens.	Birds :—8 species—12 specimens.
Zoological Society of London.	
Mammals :—2 species—2 specimens.	
Hospital for Insane, Gladesville.	
Mammals :—1 species—1 specimen.	Birds :—2 species—2 specimens.
Technological Museum.	
	Books :—6 volumes.
	Ethnological specimens.
Dr. O. Finsch.	
Mammals :—1 species—1 specimen.	Collection of Birds from the Solomon Islands.
Birds :—15 species—23 specimens.	
Reptiles :—Collection of.	
Fishes :—Collection of.	
Echini :—16 species—16 specimens.	
Wardlaw Ramsay, Esq.	
Birds :—11 species—11 specimens.	Collection of 8 specimens from Celebes.
Natural History Museum, Dublin.	
	Fishes :—19 species—19 specimens.
	Crustacea :—5 species—5 specimens.
	Mollusca :—1 species—1 specimen.
Newfoundland Commission, L.I.F.E., through Mr. Ridley.	
Mammals :—2 species—3 specimens.	Mammals :—1 species—1 specimen.
Fishes :—22 species—183 specimens.	Birds :—18 species—18 specimens.
	Fishes :—58 species—68 specimens.
	Mollusca :—Collection of Oysters.

Received from.	Forwarded to.
Indian Commission, L.I.F.E., through Dr. Day.	
Mammals :—1 species—1 specimen. Birds :—5 species—6 specimens.	Birds :—1 class of Kingfishers. Mollusca } About 20 specimens. Trigonias }
Chilian Commission, L.I.F.E.	
Mammals :—2 species—2 specimens. Fishes :—16 specimens—dry. Crustacea :—Collection. Batrachians :— Mollusca :—9 species—15 specimens. Echinodermata :—2 specimens.	Birds :—7 species—13 specimens.
Canadian Commission, L.I.F.E.	
Fishes :—16 species—40 specimens. Mollusca :—8 species—14 specimens. Echinodermata :—Collection. Whalebone.	Birds :—22 species—22 specimens.
Dr. Slater, British Museum.	
Birds :—1 species—1 specimen.	Birds :—2 species—2 specimens.
Swedish Commission, Dr. Schmidt.	
Bones :—25 bones of Rhytina.	Mammals :—1 species—1 specimen.
Norwegian Commission, L.I.F.E.	
Fishes :—71 species—233 specimens. Crustacea :—7 species—7 specimens. Mollusca :—11 species—12 specimens. Echinodermata :—8 species—12 specimens.	Mammals :—1 species—2 specimens. Birds :—2 species—2 specimens. Amphibia :—1 species—1 specimen. Fishes :—85 species—85 specimens. Crustacea :—1 species—1 specimen. Mollusca :—6 species—7 specimens. " Collection of Oysters—50 varieties.
Professor Newton, Cambridge University.	
Fossils :—19 fossil bones of <i>Pezophaps solitaria</i> , 7 fossil bones of <i>Didus ineptus</i> .	Birds :—37 species—37 specimens. Fishes :—8 species—8 specimens. Mollusca :—1 species—1 specimen. " Collection of Oysters.
Mr. Peale.	
Birds :—1 species—1 specimen. Bryozoa :—Collection of. Fossil Echini, from the Chalk. Minerals :—Collection of.	Crustacea :—Collection of. Mollusca :—10 specimens. Echinodermata :—8 species—19 specimens.
Mr. Thos. J. Moore, Public Museum, Liverpool.	
Scutes of Labyrinthodon.	Mammals :—1 species—1 specimen. Amphibia :—1 species—2 specimens. Fishes :—23 species—23 specimens.
Dr. Hans Gadow.	
Reptiles and Amphibia :—1 species—1 specimen (to arrive).	Birds :—1 species—1 specimen.
Professor Bell, King's College.	
	Fishes :—9 species—13 specimens.
Mr. Saville Kent.	
Fishes :—32 species—78 specimens.	Mammals :—1 species—1 specimen. Birds :—11 species—11 specimens. Fishes :—1 species—1 specimen.
Spanish Commission, L.I.F.E.	
Mollusca :—2 pinna, large.	Mollusca :—Collection of Australian Oysters.
South Kensington Museum, Professor Huxley.	
	Fishes :—40 species—41 specimens.

Received from.	Forwarded to.
Dr. MacIntosh, St. Andrew's.	
Mammals :—Moles and Hedgehogs, in spirits.	Fishes :—59 species—83 specimens. Crustacea :—14 species—14 specimens. Mollusca :—Collection of Oysters. " 11 species—22 specimens. Echinodermata :—8 species—8 specimens. Spongida :—Collection of.
Mr. Seebohm.	
Birds :—333 species—388 specimens.	Birds :—7 species—7 specimens. Collection of Thrushes.
Mr. Crowley, Croydon.	
Birds' Eggs :—12 species—32 specimens. Lepidoptera :—Collection of Ornithoptera brookiana.	Birds :—13 species—13 specimens.
Mr. Reginald Cholmondeley.	
Lepidoptera :—6 specimens.	Birds :—3 species—3 specimens.
China Commission, Mr. Neumann.	
Fish :—1 species—1 specimen.	Birds :—16 species—16 specimens.
Mr. C. Groom Napier.	
Minerals, Fossils, &c.—6 species—6 specimens.	Fishes :—3 species—3 specimens. Mollusca :—Collection of. " 13 species—29 specimens. Echinodermata :—1 species—2 specimens.
Rev. J. J. Manley.	
	Fishes :—6 species—6 specimens. Crustacea :—Collection of. Mollusca :—Collection of Oysters, dry. " 5 species—5 specimens.
Science and Art Museum, Edinburgh.	
Birds :—63 species—89 specimens, from New Guinea.	Fishes :—33 species—98 specimens. Crustacea :—3 species—4 specimens. Mollusca :—6 species—9 specimens. " Collection of Oysters. Zoophytes :—2 species—2 specimens. Echinodermata :—3 species—5 specimens.
Mr. Bartlett, jun.	
	Birds :—6 species—6 specimens.
Amsterdam.	
Birds' Eggs :—Collection of.	Birds :—15 species—15 specimens.
Dr. Judd, South Kensington Museum.	
Fossils :—Specimen of <i>Eozoon canadense</i> .	
Natural History Museum, Perth.	
	Mammals :—2 species—2 specimens. Crustacea :—1 species—1 specimen. Mollusca :—Collection of.
Straits Settlements Commission, L.I.F.E.	
Fishes :—94 species—95 specimens. Crustacea :—6 species—15 specimens. Mollusca :—6 species—7 specimens. Batrachian :—1 species—1 specimen.	
Dr. Woodward, British Museum.	
Echinoderms. Mollusca, &c.	Fishes :—1 species—1 specimen. Birds :—1 species—1 specimen. Mollusca :—(Trigoneas).

Specimen.	Donor.
<i>Mammals.</i>	
2 Platypi—Ornithorhynchus anatinus. Blum.	Zoological Society of N.S.W.
1 Bear—Phascogale cinereus. Blainv....	
1 Ringtail Opossum—Phalangista lanuginosa. Gould ...	
1 Monkey—Macacus sp.	
1 Pigtail Monkey—Macacus nemestrinus ...	
2 Monkeys " " (juv.) ...	
1 Wallaby—Osphranter robustus. Gould ...	
2 Mongoose—Herpestes griseus ...	
1 Stag—Cervus sp.	
1 Monkey ...	
1 Tasmanian Opossum—Phalangista fuliginosa. Ogilby ...	
1 Monkey—Macacus sp.	
1 Lemur—Varicea varia ...	
2 Platypi—Ornithorhynchus anatinus. Blum.	
2 Foxes—Vulpes argenteogriscus ...	
1 Squirrel—Sciurus sp.	
1 Lemur—Varicea rubra ...	
1 Kangaroo—Osphranter rufus. Gould ...	Botanic Gardens.
1 Cervulus muntjak. Zimm.	
1 Aretitis binturong. Raffl.	
1 Echidna hystrix ...	
1 Halmaturus ualabatus ...	
1 Rat—Mus rattus ...	
1 White Rat—Mus decumanis (Albino) ...	Mr. Jas. Buchanan.
1 Young Phalangista vulpina ...	Mr. Hamilton.
1 Dingo—Canis dingo ...	Mr. A. Smith.
1 Sugar Squirrel—Belideus breviceps ...	Master A. Seymour.
1 Malformed foot of a Sheep ...	Mr. K. A. Hazleth.
1 White Rat—Mus decumanis (Albino) ...	Mr. Inglesderff.
1 Albino Kangaroo—Macropus major ...	Mr. Ashton Clarke.
1 Young Podabrus macrourus (?) ...	
1 Macropus rufus ...	Mr. Jas. H. Clarke.
1 Skin of a Belideus breviceps ...	Mr. E. Lowe.
1 Native Cat—Dasyurus maculata ...	Mr. H. H. B. Bradley.
1 " " viverrinus ...	Mr. M. Brody.
1 Skull of Bengal Tiger—Felis tigris ...	Mr. W. Eccles.
1 Monkey ...	Mr. C. J. Morgan.
1 " " ...	Mr. Burnell.
1 Jackal—Canis aureus ...	Mr. F. E. Whalley.
1 Rat—Mus rattus ...	Dr. Sinclair.
1 Wallaby—Halmaturus ualabatus... ..	Miss Sinclair.
1 Monkey—Macacus sp.	Mr. Gilchrist.
Head of a Mummy from Peru ...	Mr. R. Williams.
1 Mouse—Mus sp. from ...	Mr. Fletcher.
1 Monkey—Cebus faticellus. Wagner ...	Mr. James Ashbury.
1 Rhinoceros Sumatrensis (juv.) ...	Dr. McKinlay, R.N.
2 Halmaturus sp. (from pouch) ...	Mr. N. de Miklouho-Maclay.
1 Seal—Catocephalus sp.	Zoo and Acclim. Society of Vict.
1 Bat—(Great Horse-shoe) ...	Mr. Wm. Cheyne.
1 Bear—Phascogale cinereus ...	Marquis of Hamilton.
	Mr. C. Harris.
	Miss Wade.
<i>Birds.</i>	
A Hornbill—Buceros plicatus ...	Zoological Society of N.S.W.
1 Pheasant—Phasianus nycthemerus ...	
2 Cassowary—Casuarium australis (juv.) ...	
1 Apteryx australis (albino) ...	
1 Eagle—Aquila audax ...	
2 Musk Ducks—Biziura lobata ...	
1 Kagu—Rhinochetus jubatus ...	
1 Bustard—Otis australis ...	Mr. A. de Mestre.
1 Geophilus nicobaricus ...	
1 Myceteria australis ...	Botanic Gardens.
1 Albino Java Sparrow—Loxia oryzivora ...	
1 Poephila cineta ...	
1 Nycticorax caledonicus ...	
1 Ground Parrot—Psephotus haematotus ...	
1 Carpophaga spilorrhoea ...	
1 Fulica australis ...	
1 Young Hornbill—Buceros plicatus ...	
1 Curassow—Crax alector, L. ...	

Specimen.	Donor.
<i>Birds—continued.</i>	
1 Tribonyx australis ...	Mr. P. H. Throsby.
1 Acanthorhynchus tenuirostris ...	
1 Mimeta viridis ...	
2 Ptilotis leucotis ...	
2 Collyriocincla harmonica ...	Honorable Jas. Norton.
4 Trichoglossus novæ-hollandiæ ...	
3 " concinnus ...	
1 " chlorolepidotus ...	
1 Ptilonorhynchus holosericeus ...	Mr. W. H. Norton.
1 Podargus strigoides ...	
1 Lyre Bird—Menura superba ...	
2 Swallows—Collocalia nidifica ...	
1 Ibis—Threskiornis strictipennis ...	Captain Braithwaite.
1 Ninox boobook ...	
1 Falco melanogenys ...	Mr. F. C. Cavanagh.
1 Chalcophaps chrysochlora ...	
1 Chœtura caudacuta ...	
1 Menura superba ...	
1 Nectris carnipes ...	Dr. J. C. Cox.
1 Podargus strigoides ...	
1 Dicaeum hirundinaceum ...	
1 Acanthiza lineata ...	
1 Estrela temporalis ...	Mr. F. Ratte.
1 Pachycephala gutturalis ...	
1 Tinnunculus cenchroides ...	
1 Snipe—Scolopax australis ...	
1 White Cockatoo—Cacatua galerita ...	Mr. A. Newcombe.
2 Spur-wing Plovers—Lobivanellus lobatus ...	
1 Freckled Duck—Anas nævosa ...	Mr. Peter Roberts.
1 Gannet—Sula australis (juv.) ...	Mr. C. H. Roberts.
2 Hymenolaimus malacorhynchus ...	Mr. M. Faithful.
1 Ground Parrot—Psephotus hæmatonatus ...	Mr. Paul.
1 Cassowary—Casuarius galeatus ...	Mr. G. P. Mathew.
2 Ptilotis pennicillatus ...	Mr. J. A. Daley.
1 Fish Eagle—Haliæetus leucogaster ...	Mr. J. A. Daley.
1 Young Lyre Bird—Menura superba ...	Mr. Chapman.
1 Sparrow Hawk—Astur aproximans ...	Mr. J. A. Daley.
1 Crane—Grus australis ...	Mr. Flood.
1 Hornbill—Buceros plicatus ...	Mr. H. S. Cape.
1 Spoonbill—Platalea flavipes ...	Mr. H. C. Royle.
1 Owl—Ninox odiosa ...	Dr. M'Kinlay.
1 Pigeon—Œdirhina insolitus ...	
Collection of Birds' eggs and nests ...	Dr. W. F. Cousins.
8 Eggs of Synoicus australis ...	Dr. Luther.
Collection of Moa egg-shells ...	
" of Birds' eggs ...	Mr. J. Fisher.
1 Swallows' Nest—Collocalia nidifica ...	Mr. H. Shaw.
4 Swallows—Collocalia nidifica ...	Mr. J. H. Murdoch.
1 Weaver-bird's nest ...	Mr. N. W. Burdekin.
2 Birds' nests and 2 eggs ...	Captain Braithwaite.
Skeleton of a Pigeon—Columba palumbus ...	
25 Birds from Dinner, Hayter, and Treasury Islands ...	Rev. A. Andrew.
1 Nycticorax caledonicus ...	Mr. H. C. Royle.
1 Painted Snipe—Rhynchæa australis ...	Mr. F. H. Joseph.
1 Scythrops novæ-hollandiæ ...	Dr. M'Kinlay, R.N.
1 Carpophaga sp. ...	Mr. C. Braithwaite.
1 Ptilinopus pelewensis ...	
Haleyon sp. ...	
2 " chloris ...	
Merula sp. ...	Mr. Richd. Houison.
1 Golden Plover—Charadrius fulvus ...	
1 Limosa uropygialis ...	
1 Sandpiper—Tringoides sp. ...	
1 Tern—Sterna sp. ...	Mr. Matthew, R.N.
12 Nests of Collocalia spodiopygia ...	
1 Collocalia spodiopygia ...	
Hawk—Astur approximans ...	
1 White Heron—Herodias syrmatophorus ...	Dr. H. B. Guppy, R.N.
1 Platycereus pennantii ...	
	Mr. Jas. Ramsay, jun.
	Mr. ———
	Mr. E. R. Hinder.
<i>Reptiles and Amphibia.</i>	
1 Lizard—Hydrosaurus varius ...	Zoological Society of N.S.W.
1 Rattlesnake—Crotalus durissus ...	
1 Death Adder—Acanthophis antarctica ...	
	Mr. John Jackson.

Specimen.	Donor.
<i>Reptiles and Amphibia—continued.</i>	
1 Alligator— <i>Crocodylus biporcatus</i> ...	Mr. Wm. Pearse.
1 Lizard— <i>Hydrosaurus</i> sp.	Mr. G. Gifford.
2 Diamond Snakes— <i>Morelia spilotes</i> ...	Mr. Josh. Revill.
1 Do Do ...	Mr. Robt. Taylor.
1 Green-tree Snake— <i>Dendrophis punctulata</i> ...	Mr. J. D. Hartland.
1 Frog— <i>Hyla</i> sp.	Miss L. Palmer.
1 Brown Banded Snake— <i>Hoplocephalus curtus</i> ...	} Mr. Macnab.
1 Black Snake— <i>Pseudochis porphyriaceus</i> ...	
1 Death Adder— <i>Acanthophis antarctica</i> ...	Mr. Thos. Rigby.
1 Ringed Snake— <i>Vermicella annulata</i> ...	Mr. J. Finch.
1 Gecko— <i>Phyllurus platurus</i> ...	Mr. C. Stuart.
Small collection from the Solomon Islands ...	Capt. Wolsch.
1 Typhlops ruppeli ...	Mr. T. H. Keech.
1 Grammatophora sp.	Mr. Thos. Rigby.
1 Gecko— <i>Phyllurus platurus</i> ...	Mr. W. Henning.
1 Sea Snake— <i>Pelamis bicolor</i> ...	Mr. M. Daly.
1 Ringed Snake— <i>Vermicella annulata</i> ...	Mr. Thos. Hackney.
1 Tortoise— <i>Chelodina oblonga</i> ...	Mrs. Smith.
1 Slow-worm— <i>Pygopus lepidopodus</i> ...	Mr. H. Dawson.
1 Gecko— <i>Phyllurus platurus</i> ...	Mr. C. J. Loader.
1 Carpet-snake— <i>Morelia variegata</i> ...	Mr. M. Asher.
2 Slow-worms— <i>Pygopus lepidopodus</i> ...	Mr. T. M'Neill.
1 Young <i>Brachysoma diadema</i> ...	Mr. E. Mackinlay.
2 Diamond Snakes— <i>Morelia spilotes</i> ...	Mr. C. J. Blinman.
1 Death Adder— <i>Acanthophis antarctica</i> ...	Mr. J. J. Hayes.
1 Whip Snake— <i>Diemenia olivacea</i> ...	Mr. S. Thomas.
1 Broad-headed Snake— <i>Hoplocephalus variegatus</i> ...	Mr. P. Mulroney.
1 Snake from Solomon Islands— <i>Platurus scutatus</i> ...	Mr. J. Lewis.
1 <i>Diemenia superciliosa</i> ...	Mr. J. M. Mahony.
1 Iguana— <i>Hydrosaurus varius</i> ...	Mr. H. Collins.
1 Lizard— <i>Grammatophora cristata</i> ...	Mr. R. Chadwick.
1 Whip-snake— <i>Diemenia olivacea</i> ...	Mr. R. Dumbrell.
1 Slow-worm— <i>Pygopus lepidopodus</i> ...	Master A. Brown.
1 Lizard from Treasury Islands ...	Dr. M'Kinlay, R.N.
2 Snakes from Fiji— <i>Platurus scutatus</i> ...	Mrs. Wm. Harley.
1 <i>Vermicella annulata</i> ...	Mr. E. Warburton.
1 Death Adder— <i>Acanthophis antarctica</i> ...	Master Woolwich.
1 Lizard— <i>Grammatophora</i> sp.	Mr. W. Brooks.
1 Lizard from Wagga ...	Mr. ———
1 Death Adder— <i>Acanthophis antarctica</i> ...	The Hon. Jas. Norton, M.L.C.
1 Skin of Snake— <i>Aspidiotes ramsayi</i> ...	Mr. C. S. Wilkinson.
1 Red-naped Snake— <i>Brachysoma diadema</i> ...	Mr. H. F. Kerton.
1 Young Brown-banded Snake— <i>Hoplocephalus curtus</i> ...	Mr. G. A. Biehler.
1 Lizard— <i>Lialis punctatula</i> ...	Mr. M. H. Sampson.
1 Black Snake— <i>Pseudochis porphyriaceus</i> ...	Mr. W. Hinton.
1 Crocodile— <i>Crocodylus porosus</i> ...	} Indian Commission, L.I.F.E.
4 Turtles ...	
2 Eggs of <i>Crocodylus biporcatus</i> ...	Mr. H. P. Coop.
1 Whip-snake— <i>Diemenia olivacea</i> ...	Mr. G. Gromberg.
1 Lizard— <i>Lialis punctatula</i> ...	Mr. Jas. Perry.
1 " <i>Pygopus lepidopodus</i> ...	Mr. N. R. Taylor.
1 Brown Snake— <i>Diemenia superciliosa</i> ...	Mr. Wm. Hancock.
1 Gecko— <i>Phyllurus inermis</i> ...	Mr. T. Birks.
Do Do ...	Mr. Chas. Fraser.
1 Snake— <i>Vermicella annulata</i> ...	Mr. G. Saunders.
1 Lizard— <i>Cyclodus gigas</i> ...	Mr. A. Toby.
1 Small collection of Snakes, &c. ...	Mr. King.
1 <i>Egernia cunninghamii</i> ...	} Mr. F. P. Benzeville.
6 <i>Hoplocephalus</i> sp. ...	
2 " <i>ramsayi</i> ...	
1 <i>Diemenia superciliosa</i> ...	
1 Amphisbæoid— <i>Typhlops</i> sp. ...	Mr. Page.
<i>Fishes.</i>	
2 Flying Gurnet— <i>Trigla polyommata</i> ...	Lieutenant Colonel Raymond.
1 Brama rai ...	Mr. J. Want.
1 Plesiops bleekeri ...	Mr. W. H. Watson.
1 Young Ray— <i>Trygon</i> sp. ...	Mr. E. Coberoft.
1 Mackerel— <i>Cybius commersonii</i> ...	} Dr. J. C. Cox.
1 <i>Trachichthys jacksonensis</i> ...	
1 <i>Perca fluviatilis</i> ...	
1 Parrot Fish— <i>Pseudoscopus</i> sp. ...	
1 <i>Synaptura nigra</i> ...	
2 <i>Trachichthys bailloni</i> ...	

Specimen.	Donor.
<i>Geological Specimens—continued.</i>	
Nodules of Iron Sand Stone	Miss E. Selkirk.
A few Fossils— <i>Spirifer</i> sp.	Mr. J. Mitchell.
Fossils from New Caledonia	Mr. Duboisé.
Fossil remains from Bathurst District	Mr. J. Ainsworth.
3 pieces of Carbonate of Iron	Mr. J. M. Antill.
1 piece of Antimony Ore	Mr. C. Hodson.
1 „ of Crude Antimony	
1 Piece of <i>Regulus Antimony</i>	
1 Specimen of Antimony Ore	
1 „ of <i>Glossopteris</i>	Mr. H. Smithurst.
1 „ of <i>Phyllothea</i>	
Crystals of Quartz " <i>Fiji Diamonds</i> "	Mr. W. Martyn.
1 Fossil Shell— <i>Mæonia grandis</i>	
Fossils from Bathurst District	Mr. J. Fischer.
„ „ Macleay „	
„ „ Newcastle „	Mr. H. Shaw.
Fossil Bone	Mr. J. White.
Quartz from Macquarie River	
1 piece of Agate	Mr. D. F. Jarrett.
Specimens of Petrified Woods	
A few Fossils	Sir Thos. M'Mullan.
Piece of Quartz	
2 Concretions of Freshwater Lobster	Mr. C. A. Rudder.
1 4th Molar of <i>Diprotodon</i>	
4 Specimens of Fossil Plants— <i>Lepidodendron sigilaria</i>	Mr. Cooper.
1 Piece of Copper Ore— <i>Argentiferous galena</i>	
A collection of Rocks and Gold Specimens	Mr. E. J. Dunn.
Portion (of shaft of) Fossil Bone—probably Femur of <i>Diprotodon</i>	Mr. J. M'Donald.
1 Copper Specimen	Mr. Daniel M'Donald.
2 Nodules of Iron Ore	Mrs. Selkirk.
<i>Ethnological Specimens, &c.</i>	
1 Leaf Plate composed of Banyan leaves (<i>Ficus indica</i>) used by Hindoos when partaking of food	Rev. A. Andrews.
Letters written on palm leaves	
Iron Stylus or Pen used in writing same	Mr. L. Joubert.
Collection of Kanaka Weapons from New Caledonia	
Skull of Aboriginal	Mr. Horsley.
1 Canoe from Solomon Islands	Messrs. Campbell Bros.
1 Necklace of human Teeth	
A Finger-strop used for throwing spears. New Caledonia	Mr. F. Ratte.
Specimens from Fiji	Mr. J. H. Renwick.
A Native Basket	Capt. Wolsch.
Specimens from New Guinea	Rev. W. Wayatt Gill.
50 pieces of Horn, showing the various stages through which it passes before it is the finished Comb	Mr. C. E. Wigzell.
Maori Chief's Club	Master A. J. Shearsby.
Girdle (tatua) from Buka-buka	Captain Wolsch.
Stone Adze	
4 Stone Tomahawks	Dr. Luther, R.N.
1 Coat of Armour and 3 Spears	
2 Stone Tomahawks	Mr. H. Shaw.
2 Coral Throwing-stones	
Collection of Specimens. New Hebrides, &c	Captain Braithwaite.
Ornamented Stone Adze	
5 Clubs	Dr. Mackay.
2 Casts of human heads	
2 Rocket Guns (flint lock)	Ordnance Dept. N. S. W.
2 Pistols	
3 Stone projectiles	Mr. A. Chauffourier.
2 „ Tomahawks	
1 Flat stone for sharpening spears	Lieut. Commis. Crosse, R.N.
2 Stones of which Tomahawks are made	
1 Mask (shield)	Miss Faithful.
2 Head Stones	Dr. H. B. Guppy, R.N.
Cranium of Welsh Aboriginal	Mr. A. Smith.
Cocoa-nut showing marks of the Robber Crab (<i>Birgus latro</i>)	Mr. W. H. Orchard.
Copy of Sydney Gazette, July, 22nd, 1820	
2 Bushman's poisoned Arrows	Sir Alfred Stephen, C.B., G.C.M.G., &c.
1 Necklace	
2 Soap-stone Pipes	
1 Stone Tomahawk	

Specimen.	Donor.
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Photographs.

9 Photos of Native Masks from New Britain Mr. Goodwin.

Historical.

Copy of Sydney Gazette, 22nd July, 1820 Mr. A. Smith.

Medals.

Gold, silver, and bronze Medals London Fish. Ex. Commisn.

Coins.

1 Silver Coin ("Dump") formerly current in New South Wales, value }
fifteen-pence; date of Coin, 1813 } Mr. Marklove.

Books, Periodicals, &c.

- Geological Report, 1879-80-81-82.
 Proceedings of Linnean Society of New South Wales, Vol. 8, part 4.
 Nye Aleyonider Gorgonida og Pennatulida Rosen and Damilsen.
 Journal of Royal Society of New South Wales, Vols. 16 and 17.
 Journal of Bath and West of England Agricultural Society for 1883.
 On Rocks from New Britain and New Ireland.
 The Deniliquin Meteorite.
 Chemical composition of certain rocks.
 The Bringen Meteorite.
 Catalogue of Birds' Eggs.
 Report, 1880-1-2, and Maps.
 On the origin of the Fauna and Flora of New Zealand, 10 publications.
 Transactions of Royal Society of Arts and Sc. of Mauritius, 1877-8-9-80.
 Transactions, Vol. 16, Highland and Agricultural Society.
 Report for 1881.
 Records, Vol. 17, parts 1, 2.
 Palæontologia Indica.
 Series 10. Vol. 2, part 6.
 " " " 3, parts 1 and 2.
 " 13 " 1, part 4, f. 3.
 " 14 " 1, part 4, f. 3.
 12th Annual Report.
 Report for 1883.
 " 1883.
 Bulletins Societa Adriatica.
 Notes sur les Dinosauriens de Berruss, par Dolle.
 List of Members, November, 1883.
 Report for 1883.
 Berichte XXIX and XXX.
 Bulletin, 1883, No. 3.
 " Vol. 1. No. 5.
 Report, March, 1884.
 Fitzgerald's Australian Orchids, Vol. 2, part 1.
 Journal of the Microscopical Society of Victoria.
 Catalogue des Prionedes del Archipel Inds. Netherlands.
 Diatomen von Franz-Joseph Land.
 Beitrage zur Kentorisider fossilen diatomen.
 Reports and Proceedings of Royal Society of Tasmania, 1849-1854, 1859-1865, 1866, 1878, and 1881.
 Proceedings of Linnean Society New South Wales, Vol. 9, part 2.
 List of Diurnal Birds of Prey.
 Kaart des Tasman Glatschen.
 On the Skeletons of the Marsipobranch Fishes.
 Bulletin, Vol. XI, No. 10.
 Berichte des Vereins fur Naturkind, No. 31.
 Series of Original Water-colour Drawings of Nudi-branchia, of Port Jackson, &c.
- Coll. Mus., Wellington, N.Z.
 Lin. Soct., of N.S.W.
 Bergen Museum.
 Royal Soct., of N.S.W.
 B. and W. of Eng. Ag. Soct.
 } A. Liversidge, Esq., F.R.S.
 Philip Crowley, Esq.
 Geo. and Nat. Hist., Survey of Canada.
 The Hon. W. Macleay, M.L.C.
 Mr. V. Robillard.
 The Society.
 Smithsonian Institute.
 } The Superintendent, Geological Survey of India.
 Zool. Soct., Philadelphia.
 Victorian Museums.
 South Africa Museum.
 La Societa Adriatica.
 E. L. Montifiore, Esq.
 Roy. Soct., Edinburgh.
 Acclim. Soct., Queensland.
 Dr. Achermann.
 Soc. Impl. des Naturalistes, Moscow.
 } Am. Mus. of Nat. Hist.
 The Government Printer.
 Mr. Wm. Bale.
 Mr. M. J. M. Landsberg.
 } Herr A. Grunow.
 The Society.
 The Society.
 Mr. J. H. Gurney.
 Dr. R. von Lendenfeldt.
 Prof. R. N. Parker.
 Prof. A. Agassiz.
 Dr. E. Gerland.
 G. F. Angus.

APPENDIX IX.
ADDITIONS TO THE MUSEUM LIBRARY.

Reg. No.	Book.	Shelf.
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1376	Blanford (W. T.) Scientific results of the Second Yarkand Mission. Mammalia.	21 E
994	Bewick (F.) A General History of Quadrupeds. 8vo. Newcastle-on-Tyne, 1820.	12 F
973-4	Cassin. Mammology and Ornithology. U. S. Exploring Expedition, 1838 to 1842. 4to. Philadelphia, 1858. Atlas, folio.	12 A 32
1349	Cuvier (F.) Histoire Naturelle des Cetaces. 2 vols. 8 vo. Paris, 1836. ...	13 H
1395	Dobson (G. E.) A Monograph of the Insectivora, Systematic and Anatomical. Parts I and II. London, 1882-83. 4to.	4 D
848	Gray (J. E.) Supplement to Catalogue of Seals and Whales in British Museum. 8vo. Lond., 1871.	1 D
1065	Kreffit (G.) The Mammals of Australia. Illustrated. 4to. Sydney, 1871	32
1128-29	Milne-Edwards. Recherches à l'histoire naturelle des Mammifères. 2 vols. 4to. Paris, 1868-74.	12 B
1032	Schlegel (H.) Monographie des Singes. 8vo. Leide, 1876	11 C
981	Smith (A.) Illustrations of the Zoology of South Africa. Vol. I. Mammalia	21 B
1220	Southwell (T.) Seals and Whales of the British Seas. 4to. London, 1881	12 F
1521	Vogt (Carl) und F. Specht. Die Saugtiere in Wort und Bild. Imp. 4to.	5 A
CLASS A 2.		
968-70	Baird, Brewer, and Ridgway. History of North American Birds. Vols. I, II, III. Land Birds. 3 vols. 4to. Boston, 1874.	11 C
878	Blasius. Ueber neue und Zweifelhafte vogel von Celebes. Pamphlets, vol. XV.	22 D
995-6	Bewick (F.) A History of British Birds. 2 vols. 8vo. Newcastle-on-Tyne, 1847.	12 F
973-4	Cassin. Mammology and Ornithology, U. S. Exploring Expedition, 1838-42. 4to. Philadelphia, 1858. Atlas, fol. ...	12 A 32
1420	Catalogue of Birds' Eggs in the collection of P. Crowley. 1883. Pamphlets, Vol. XVI.	22 D
886	Demarest (A. G.) Histoire Naturelle des Tangares, des Manakins, et des Todiers. 1 vol. Fol. Paris, 1805.	28
1483	Des Murs (O.) Iconographie Ornithologique, ou Nouveau Recueil Général des planches peintes d'Oiseaux. 1 vol. 4to. Paris, 1849.	4 D
1457-64	Dresser (H. E.) History of the Birds of Europe. 8 vols. 4to. London, 1871-81.	4 D
27	Gray (G. R.) Birds: Part 3, sec. 2, Psittacidae; part 3, secs. 3 and 4, Capitonidae and Picidae; part 4, Columbæ.	1 D
1425-31	Gould (J.) The Birds of Asia. 7 vols. imp. fol. London, 1853-83	34
1432	" A Monograph of the Odontophorinae or Partridges of America. 1 vol. imp. fol. London, 1850.	34
1433	" A Monograph of the Trogonidae or Family of Trogons. 1 vol. imp. fol. London, 1875.	34
1454	" A Monograph of the Rhamphastidae or Family of Toucans. 1 vol. imp. fol. London, 1854.	34
1455-6	" Handbook to the Birds of Australia. 2 vols. 8vo. London, 1865	12 C
1370	Gurney (J. H.) A list of the Diurnal Birds of Prey, with references and annotations; also a record of Specimens in the Norfolk and Norwich Museum. 1 vol. 8vo. London, 1884.	12 F
1224	Layard. Birds of South Africa. New edition by R. B. Sharpe. 8vo. London, 1875-84.	12 F
999-1001	Levaillant (F.) Histoire Naturelle des Oiseaux. 3 vols. Paris, 1806. Vols. I, II, des Paradis et des Rolliers; vol. III, des Primerops et des Guepiers.	32
961	Lewin (J. W.) Natural History of the Birds of New South Wales. 1 vol. Fol. London, 1822.	12 A
966-7	Oates (E. W.) Handbook of the Birds of British Burmah. 2 vols. 8vo. London, 1883.	11 C
1026	Schlegel (H.) De Vogels van Nederlandsch Indie. 4to. Leiden und Amsterdam.	11 C
963	Sclater (P. L.) Monograph of the Jaegers and Puff Birds. 4to. London, 1882.	11 C
827	Seebohm (H.) A History of British Birds, with coloured illustrations of their eggs. Vol I. 8vo. London, 1883.	11 C
1224	Sharpe (R. B.) Birds of South Africa (See Layard)...	12 F
1414-16	" Catalogue of the Birds in the British Museum. Vols. VI, VII, VIII. 3 vols. 8vo.	1 D
982	Smith (A.) Illustrations of the Zoology of South Africa. Vol. II. Aves.	21 B

Reg. No.	Book.	Shelf.
1002-4	Swainson (W.) Zoological Illustrations. First series. 3 vols. 8vo. London, 1820-1.	17 F
1005	Second series. Vol. I. Birds. 8vo. London, 1829	17 F
CLASS A 3.		
1376	Blanford (W. T.) Scientific results of the second Yarkand Mission. Reptilia and Amphibia.	21 E
1027	Boulanger. Catalogue of Batrachia, Galientia, and Ecaudata in B. Museum. 2nd edition. 8vo. London, 1882.	3 C
1293-4	Goette (Dr. Alex.) Die Entwicklungsgeschichte der Unke... .. Text and Atlas. 2 vols. 8vo. and folio. Leipzig, 1875... ..	12 F 34
1417	Macleay (Wm.) Notes on some Reptiles from the New Hebrides. Census of Australian Snakes.	14 F
887	Russell (P.) An account of Indian Serpents. Fol. London, 1796	28
983	Smith (A.) Illustrations of the Zoology of South Africa. Vol. III. Reptilia.	21 B
CLASS A 4.		
979-80	Day (F.) The Fishes of India. 2 vols. 4to. London, 1878	12 A
1376	Day (F.) Scientific results of the second Yarkand Mission. Ichthyology.	21 E
1070	De Caux (J. W.) The Herring and Herring Fishery. 8vo. London, 1881	18 G
1400	Emery (C.) Fauna and Flora des Golfes von Neapel. Fierasfer ...	5 C
1292	Günther (A. C. L. G.) An Introduction to the Study of Fishes. 8vo. Edinburgh, 1880.	12 F
1418	Haswell (W. A.) Studies on the Elasmobranch Skeleton	14 F
997-8	Houghton (W.) British Fresh-water Fishes. 2 vols. Fol. London	12 A
1010	Macleay (W.) Descriptive Catalogue of Australian Fishes. Vols. I and II, and sup. in one. 8vo. Sydney, 1881.	3 D
1417	Macleay (Wm.) Contribution to a knowledge of the Fishes of New Guinea. Description of two Fishes lately taken in Port Jackson. On the Clupeidae of Australia. On the Mugilidae of Australia. On a New Genus of Fishes from Port Jackson. Plagiostomata of the Pacific.	14 F
1074	Olsen (O. T.) Piscatorial Atlas of the North Sea, English and St. George's Channels. Imp. fol. London, 1883.	28
1398	Parker (W. K.) On the Skeleton of the Marsipobranch Fishes. 1883	5 C
884	Russell (P.) Description and figures of two hundred Fishes, collected at Vizagapatam, on the coast of Coromandel. Vol. I. Fol. London, 1803.	28
981	Smith (A.) Illustrations of the Zoology of South Africa. Vol. I. Pisces. 4to. London, 1869.	21 B
CLASS A 5.		
1189-1214	Crosse (H. et P. Fisher). Journal de Conchyliologie, comprenant l'étude des Mollusques Vivants et Fossiles. Vols. I to XXVI. 1850 to 1878.	15 C
1510	Vol. XXXIII. 1883	15 C
754	De Kay (J. E.) Zoology of New York. Mollusca. 4to.	9 C
991	Hanley and Theobald. Conchologia Indica. 4to. London, 1876	14 B
1421	Hutton (F. W.) Pamphlets, vol. XVII. Catalogue of the Land Mollusca of New Zealand, 1873. Catalogue of the Marine Mollusca of New Zealand, 1873. Catalogue of the Tertiary Mollusca and Echinodermata of New Zealand, 1873.	22 D
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CLASS E--continued.		
1404	Orient Line Guide 4to. Sydney, 1884. ...	34
1155	Railway Guide to N.S.W. 2nd edition. 4to. Sydney, 1884. ...	19 D
1033-39	Report on the Scientific Results of the Voyage of H.M.S. "Challenger." ...	6 A
	Zoology. Vols. II to VIII.	
1412-3	" " Vol. IX. Text and plates. 2 vols.	
1225	" " Physics and Chemistry. Vol. I.	
1054	Ridley (Rev. W.) Kamilaroi and other Australian Languages. 4to. Sydney, 1875.	20 D
964	Seebohm (H.) Siberia in Europe. 8vo. London, 1880 ...	18 G
965	" Siberia in Asia. 8vo. London, 1882 ...	18 G
1376	Scientific Results of the Second Yarkand Mission. 1 vol. 4to. Calcutta, 1879.	21 E
841	Sydney Water Supply, Report on. 1869 ...	20 H
1223	Turner (G.) Samoa a Hundred Years ago. 8vo. London, 1884 ...	18 G
973-4	U.S. Exploring Expedition, 1838-42. (See Cassin, A 1, A 2, pp. 5 and 9 ...	
1304	Whympers (F.) The Fisheries of the World. An illustrative descriptive Record of the International Fisheries Exhibition, 1883. 4to. London, 1883.	19 D
CLASS F.		
1318-19	Griffith and Henfrey. The Micrographic Dictionary. 2 vols., 8vo. London, 1873 ...	9 G
992-3	Halliwel (J. O.) Dictionary of Archaic and Provincial Words. 2 vols. 8vo. London, 1878 ...	3 C
	Pamphlets. 8vo. series, vol. 1 ...	22 D
	" " " 2 ...	22 D
	" " " 3 ...	22 D
	" " " 4 ...	22 D
	" " " 5 ...	22 D
	" " " 6 ...	22 D
	" " " 7 ...	22 D
	" " " 8 ...	22 D
	" " " 9 ...	22 D
	" " " 10 ...	22 D
	" " " 11 ...	22 D
	" " " 12 ...	22 D
	" " " 13 ...	22 D
	" " " 14 ...	22 D
878	" " " 15 ...	22 D
1420	" " " 16 ...	22 D
1421	" " " 17 ...	22 D
	" Folio series, " 1 ...	22 D
880	" " " 2 ...	22 D
1496	" " " 3 ...	22 D
1154	Post Office London Directory, 1876 ...	20 H
CLASS G.		
1351	Album von Berliner Aquarium ...	18 H
	Führer durch das Berliner Aquarium, 1879 ...	
	Das Aquarium des Zoologischen Gartens zu Hamburg, 1866 ...	
	Do. do. do. 1883 ...	
	Das Süswasser. Aquarium von G. Graeffe, 1861 ...	18 H
	Das Süswasser. Aquarium von Rossmassler, 1875 ...	
	Leitfaden für das Aquarium der Zoologischen Station zu Neapel, and Atlas. 1 vol., 8vo. 1880-1883 ...	18 H
852	Bairstow. Fresh Water Aquaria. 8vo. ...	
878	Brooks (C. W.) Origin of the Chinese Race. Pamphlets, vol. XV ...	22 D
1008	Gosse (P. H.) The Aquarium. 8vo. London, 1854 ...	18 H
851	Hughes. On the Principles and Management of the Marine Aquarium. 8vo. 1875 ...	18 H
860	Kreutz (H.) Untersuchungen über die Bahn des Grossen Kometen von. 1861. 4to. Bonn, 1880 ...	19 D
852	Lloyd and others. Fresh Water Aquaria. 8vo. ...	18 H
1175	Letts's Popular Atlas, 1883 ...	21 A
604	Macgillivray (J.) Preservation of Specimens of Natural History. Pamphlets, vol. IX ...	22 D
878	Netto (L.) Aperçu sur la Théorie de l'Évolution. Pamphlets, vol. XV ...	22 D
836	N.S.W. Medical Gazette. 1872 ...	20 H
1019	Roscoe. Lessons in Elementary Chemistry. 8vo. London, 1882 ...	18 F
1489	Sternberg (G. M.) Photo-Micrographs, and how to make them. 8vo. Boston, 1884 ...	19 D
850	Taylor (J. E.) The Aquarium. 8vo. London, 1881 ...	18 H
1099	Von Baer. Reden gehalten in Wissenschaftlichen versammlungen, &c. 8vo. St. Petersburg, 1864 ...	18 H
852	Wood (J. G.) The Fresh and Salt Water Aquarium ...	18 H
852	Weston. The Fresh Water Aquarium ...	18 H

Reg. No.	Book.	Shelf.
CLASS H.		
1491	Drury (E. J.) Recreative French Grammar. Svo. New York, 1883	20 H
845	The Fisheries Act, 1881. Svo. ...	20 H
1012	Industrial Progress of New South Wales. Svo. Sydney, 1871	20 H
1013	Scrap-book, containing Reports, Newspaper Cuttings, and Memoranda. Fol.	21 A
638	Von Martins—Memoir of; by C. Rau. Pamphlets, vol. XII	22 D

APPENDIX X.

LIST OF DUPLICATE BOOKS AVAILABLE FOR EXCHANGE.

No.	Books.	
	Reports of the British Association from 1832 to 1878, and Index from 1831 to 1860.	Bound.
212	The Annals and Magazine of Natural History for 1840, also duplicate parts for January, February, March, May, June, July, and August, same year; and No. 7, vol. 2, 4th series, July, 1868.	Unbound.
212	Do. vols. 1 & 2, 3rd series, 1858	Bound.
478	Zoological Record. Vols 7-8-9, 1870, 1-2	Unbound.
569	Journal of the Linnean Society of London. Vol. 8, Nos. 29, 30, 31, 32, and No. 51, vol. XI; also two incomplete portions of 1871 and 1874.	Unbound.
252	Transactions of the Linnean Society of London. Vol. XXVI, parts 2, 3, and 4 (2 copies of part 2); also Vol. 28, part 1; Vol. XXII, part 1; Vol. XVII, part 1; and Vol. XV, part 2.	Paper covers.
375	Edinburgh Philosophical Journal. Vols. 1 and 2	Bound.
494	Transactions of the Entomological Society of London. Vol. IV, part 8, and Vol. V.	Bound.
482	Geological Magazine, 1873, and February, 1870	Paper cover.
581	Transactions of the Entomological Society of New South Wales. Vol. II... Proceedings of the Linnean Society of London, from December, 1871, to June, 1872.	Unbound.
569	Additions to the Library of the Linnean Society, from June, 1873, to June, 1874.	"
481	Quarterly Journal of the Geological Society, November, 1858	Paper cover.
788	Report of the Royal Society of Van Diemen's Land, 1852	Bound.
1335	Proceedings of the Royal Society of Van Diemen's Land, 1854	"
1335	Papers and Proceedings of the Royal Society of Van Diemen's Land. Vols. 1 and 2, from 1848 to 1853.	Paper covers.
601	Reports of the Colonial Museum, New Zealand, 7, 11, 12, 13, and 14, being for the years 1871-2, and 1875 to 1879; and extra copies, 8 to 12 being from 1873 to 1878, and 14 and 15, 1879 and 1880.	"
	Bulletin of the Museum of Comparative Zoology at Harvard College, Cambridge, Mass. Vol. II, No. 2; Vol. III, Nos. 11 to 16; Vol. V, No. 1.	Unbound.
956	Comptes Rendus. 3 parts, 1882, Nos. 22, 23, 24	"
613	Memoirs of the Geological Survey of India. 2 parts. Ammonitidae	Paper cover.
496	Memoirs of the Geological Survey of Great Britain, and of the Museum of Practical Geology, the Iron Ores of Great Britain, Part 1.	"
518	Bulletin de la Société Impériale des Naturalistes de Moscou, 1871...	"
36	Histoire Naturelle Générale des Pigeons et des Gallinacés. 1815. (Temminck)	"
707	Dumeril and Bibron—Erpetologie Générale. Vols. 1, 2, 3, 4, 5, 8	Bound.
620	Geological Survey of New Zealand, from 1873 to 1881. Six numbers (two copies of each, and No. for 1883-4.	Paper cover.
	Fifty-fourth Annual Report of the Board of Public Education of the District of Pennsylvania, comprising the City of Philadelphia, for 1872.	"
732	Prospectus of the Metropolitan School of Science applied to Mining and the Arts. Sixth session, 1856-7.	"
825	Hitchcock (E.) Geology of Massachusetts. Vol. 1...	Bound.
537	Hewitson (W. C.) Illustrations of Exotic Butterflies. Vols. 1 and 2	"
757	Fauna und Flora des Golfes von Neapel. III, Monographie Pantopoda	"
262	IV, Monographie Corallina	"
831	Ramsay (E. P.) Catalogue of Fossils in the Australian Museum	"
	Australian Birds in the Australian Museum.	Paper cover.
	Part I, Accipitres.	"
601	Waterhouse. Catalogue of the Mammalia in the Zoological Society's Museum, London. Second edition, 1838. (2 copies.)	Paper covers.
153	Catalogue of Hymenoptera in the British Museum, 1857. Part V, Vespidae	Bound.
817	Coleoptera in the British Museum, 1856. Part IX, Cassididae	"
99	Blattarie in the British Museum, 1868	"
781	Fish in the British Museum, 1851. Part I, Chondropterygii...	"
102	Halticidae in the British Museum, Physapodes and Aedipodes.	"
	Part I, 1860.	

No.	Books.	
96	Catalogue of Dermaptera Saltatoria in the British Museum...	Bound.
740	Hand-List of Shield Reptiles in the British Museum, 1873...	"
635	Hutton (W.) Fishes, Birds, and Star Fishes of New Zealand	"
300	Johnston (G.) An Introduction to Conchology, 1850	"
460	Bristow (H. W.) A Glossary of Mineralogy...	"
464	Phillips (W.) An Elementary Introduction to Mineralogy, 1852	"
1056	Ridley. Kamilaroi and other Australian Languages...	"
985	Kent (W. S.) Manual of the Infusoria. 3 vols.	"
519	Entomologische Zeitung, 1864, 1871, and 1872	"
878	Papers respecting the Phylloxera Vastatrix. Melbourne, 1873	Unbound.
	The Apocryphal New Testament, 1821...	Bound.
	Griffiths (Capt. A. J.) Observations on some points of Seamanship with practical hints on Naval Economy, &c., &c., 1824.	"
552	Roemer. Genera Insectorum ...	Paper cover.
	Deutsch. Griechisches, Worterbuch von Dr. Balent, 1825 ...	"
253	Army Meteorological Register for twelve years, from 1843 to 1854. Washington, 1855.	Bound.
889	Bleeker (M. P.) Atlas Ichthyologique (portions of)	Unbound.
239	Freyinet. Voyage autour du Monde. Zoology	Bound.
566	Voyage de "l'Astrolabe." Plates of Fishes	"
597	Gemminger & B. de Harald. Catalogus Coleopterum. Tome 5, 6, 7, 8	Paper cover.
111	Schriften der Koniglichen Physikalisch. Okonomischen Gesellschaft zu Konigsberg, 1860, 13 Nos.	Unbound.
846	New South Wales: its Progress and Resources, and Official Catalogue of Exhibits from the Colony to the Amsterdam Exhibition, 1883. (2 copies.)	Paper cover.
1018	New South Wales: Official Catalogue of Exhibits from the Colony forwarded to the Calcutta Exhibition of 1883-4. (2 copies.)	"
	Whately (R.) Thoughts on Secondary Punishments, in a letter to Earl Grey, 1832.	Bound.
	Whately (R.) Remarks on Transportation, in a second letter to Earl Grey, 1834.	"
1042-3	Woods (Tenison). Fish and Fisheries of New South Wales	"
1063-4	Official Record of the Sydney International Exhibition, 1879	"
1,050	New South Wales in 1881	"
1045-6	Wood (H.) Mineral Products of New South Wales	Paper cover.
1052	Lyne (Chas.) The Industries of New South Wales, 1881	Bound.
1061	Wools (W. F. L. S.) Plants Indigenous in the neighbourhood of Sydney...	Paper cover.
1058	Clarke (W. B.) Remarks on the Sedimentary Formations of New South Wales.	"
583	Wilkinson (C. S.) Notes on the Geology of New South Wales	"
583	Liversidge (Prof.) Description of the Minerals of New South Wales; also Catalogue of Works, Papers, Reports, and Maps on the Geology, Palaeontology, Mineralogy, &c., &c., of the Australian Continent and Tasmania.	"
574	Annales du Musée Royal d'Histoire Naturelle de Belgique. Tome I. Part 1. Description des Ossements Fossiles des Environs d'Anvers. Text and Plates. Beneden.	Strong paper covers.
854-855	Tomes IV and VII. do.	"
116	Annales, &c. Tome II. Faune du Calcaire Carbonifère de la Belgique. De Koninck. 4 copies. 2 text, 2 plates. Tome V, 4 copies; Tome VI; and Tome VIII, plates.	"
857	Annales, &c. Tome III. Conchyliologie des Terrains de la Belgique. Nyst (H. P.) 2 copies; 1 text, 1 plates.	"
854	Annales, &c. Tome X. Les Arachnides de Belgique. Becker (Leon). 1 copy, plates.	"
604	Sur la Position Stratigraphique des Restes de Mammifères Terrestres recueillis dans les Couches de l'Eocène de Belgique. Rutot (A.)	"
1465	Layard (E. L.) and R. B. Sharpe. The Birds of South Africa	Bound.
	Annual Report of the Department of Mines, New South Wales, for the year 1877.	Paper cover.
785	Transactions of the Royal Society of New South Wales for the year 1869...	"
	Museum of Practical Geology and Geological Survey. Records of the School of Mines. Vol. 1. Parts 3 and 4.	"
	List of the Specimens of Birds in the British Museum. Part 3. Sections 3 and 4. Capitonidæ and Piciidæ. 1868.	"
	List of the Specimens of Lepidoptera in the British Museum. Part 2. 1847.	"
	Catalogue of the Conchifera in the British Museum. Part 2. Petricoladæ and Corbiculadæ. 1854.	"
	Catalogue of Crustacea in the British Museum. Part 1. Leucosiadæ. 1855.	"
	Catalogue of the Myriapoda in the British Museum. Part 1. Chilopoda. 1856.	"
	Waterhouse (F. G.) The Fauna of South Australia...	Unbound.
	Clarke (Rev. W. B.) Remarks on the Sedimentary Formations of New South Wales.	"

No.	Books.	
1422	Meteorological Report, New Zealand, 1883, including Returns for 1880-1-2 and averages for previous years.	Paper cover.
636	Palaeontology of New Zealand. Part 4. Corals and Bryozoa	"
864	Hector (J.) Handbook of New Zealand	"
635	Hutton (F. W.) Manual of the New Zealand Mollusca	"
635	" Catalogue of the Birds of New Zealand	"
635	" Catalogues of the New Zealand Diptera, Orthoptera, Hymenoptera. 1881.	"
636	Miers (E. J.) Catalogue of the Stalk and Sessile-eyed Crustacea of New Zealand. 1876.	"

APPENDIX XI.

To the Trustees of the Australian Museum.

Gentlemen,

I have the honor to inform you that, immediately on my arrival in London, I reported myself to the Agent-General (The Hon. Sir Saul Samuel, K. C. M. G.), the Executive Commissioner for the Great International Fisheries Exhibition. Then, proceeding to the British Museum, I called on Dr. Gunther, and made arrangements for the great sunfish and seal to be stuffed and mounted, on behalf of the British Museum, to be handed over to that institution at the close of the Exhibition. The birds I made arrangements with Mr. E. Gerrard, junr., to have stuffed and mounted. I also called on Messrs. Powell, and ordered the necessary extra bottles required, and on Sage & Co. with respect to the cases, and to the Customs *re* white spirits. The whole of my attention was then devoted to making the necessary arrangements, along with Sir Saul Samuel, for the fitting-up and decorating of the New South Wales Court, and other minor details, preparing descriptive labels, &c., for the specimens.

Our exhibits arrived at the Exhibition grounds, and were in due time displayed, although not without some delay, the chief drawbacks being in the fitting up and decoration of the Court, which necessarily took some time before it was finally finished.

Whenever a lull in the work occurred I took advantage to visit the various museums, botanical, and zoological gardens, &c., in the neighbourhood of London.

By the opening day most of the collections were on view; and from time to time, as the various exhibits came to hand, they were displayed in Sage's cases.

After the Court was finished, my time was devoted to the various Juries on which I had the honor to serve; and to attending the numerous lectures given by experts in the building, under the patronage of His Royal Highness the Prince of Wales, of which complete copies will be found among the books and publications I bring back; also in examining the numerous exhibits, and making arrangements for exchanges with the Commissioners and Representatives of the various Courts.

Finding that it was impossible to get a catalogue of our exhibits ready in time for the opening day, I wrote out and had printed descriptive labels for the most important of them, and afterwards catalogued, in detail, the whole of the exhibits in our Court, giving a few explanatory remarks wherever it appeared necessary. The greater part of this catalogue—that pertaining to the exhibits of fishes—the Commission did us the honor to reprint on its own account in London, for distribution with the Conference papers and essays already alluded to.

As I could not well leave the Exhibition before it closed, I was prevented from visiting any but the metropolitan museums and institutions until I had completed my duties to the Fisheries Commission; and I regret to say so much time was taken up in receiving the numerous exchanges previously arranged, and in labelling, listing, and packing them up, as well as superintending the packing of our numerous and important purchases and return goods, that I found myself with very little time at my disposal for visiting the Continental museums, &c. Nevertheless, by always travelling at night, I managed to visit the most important of the museums, aquaria, and zoological gardens, both in Great Britain and on the Continent. My chief object at these institutions was to gain information respecting the various methods of curing, and preparing and mounting specimens for museum purposes; also in the modes of exhibiting the same, and the most improved styles of cases and cabinets, keys, locks, fastenings, &c. Most of my time among the metropolitan museums was spent at those of the Science and Art, and the zoological museums at South Kensington. I received a hearty welcome from the Directors of those institutions, and was allowed every opportunity of examining the grand national collections there preserved at my leisure, without any formalities.

At the British Museum I had opportunities of examining many of the types of Australian fauna of the old naturalists, and the important series of Australian and New Zealand fossils. From this museum also I secured casts of many important and unique fossils and other specimens mentioned hereafter in the Appendix.

My attention was also given to the various methods of setting out and exhibiting the different classes of animals in the show-cases, and the arrangements made for easy and quick access to the type and reference collections.

Among the other metropolitan museums I visited were those of the Royal College of Surgeons, where I found a most admirable method of bleaching discoloured bones, and numerous elegant methods of mounting spirit preparations; the Museum of Natural History, "School of Mines," Gernym-street, famous for its palaeontological and mineral collections; the Royal Institution, Albermarle-street, chiefly chemistry, popular lectures, large library; the University of London, an examining body only for first-class in Arts and Sciences.

In the Booth Museum, situated near Brighton, are some of the most naturally and artistically mounted groups of birds to be met with.

To

To Edinburgh I paid two visits, and chiefly devoted my time to the Science and Art Museum; and to the Edinburgh University Museums, under the direction of Professor Archer, F.R.S.E., and Professor Wm. Turner, M.B., F.R.S., &c., to whom, with Dr. Murie, I am indebted for much valuable information and many acts of kindness. The new Anatomical Museum was not completed at the time of my visits, but from what I could see of its construction and internal fittings, it will be one of the most efficient and best fitted-up buildings of its kind in Great Britain. A fine collection of ziphoid whales, some of great rarity, were of particular interest, especially a perfect skeleton of that rare species known as Rudolphe's Whale, of which I had also the good fortune to secure a specimen in the flesh before leaving London, which formed the subject of a recent memoir by Professor Flower.

I also visited the museums at Glasgow, Paisley, Dundee, Perth, St. Andrew's, and others, and made various exchanges, as set out in detail in the Appendices.

At Paris I was chiefly interested in examining the relics of the old collections made by the early French voyagers to the South Seas. These interested me very much, especially an Emu (*Dromais ater*, Vieillot), from Baudin's expedition—shot at Port Jackson—probably the first specimen brought to Europe. The immense collections there were quite bewildering, and, from a scientific stand-point, too vast to attempt anything more than a cursory view in the time at my disposal, so, as in other museums, I fell back on the methods of mounting, and the exhibition and arrangement of the collections for the public. Although I do not admire the French style of mounting or exhibition, no one could go through so great a Natural History institution without learning much which will hereafter be useful.

The entomological, palæontological, and geological collections were too vast to be realized by any but an expert. Those of Castelnau (*insects*) will be found of great interest to the Australian. The treasures of some recent deep-sea dredgings were displayed in a separate building erected for the purpose. Here were vast collections of sponges, &c. (*Askonema*, *Aphrocallistes*, &c.), and deep-sea forms of curious fishes, obtained during the voyage of the "Talisman." Diagrams of the most remarkable, in some instances enlarged, were hung on the walls, and descriptive labels of distinguishing colours attached to the most important; glass of different tints was used for displaying semi-transparent or light-coloured specimens in spirits, the numbers punched out in the parchment labels; glass floats were used for suspending small specimens in bottles.

After visiting the various zoological and ethnographical museums, laboratories, and lecture-rooms, I devoted considerable time to the new museum buildings now being erected for the zoological collections in the Jardin des Plantes Museum. One wing only was near completion—an immense oblong structure with galleries all round inside, supported by pillars from first and second floors, giving a maximum amount of clear space for the arrangement and distribution of the cases; the galleries were reached by a common stair from a vestibule at the end of the structure, not from the inside.

I also visited the various botanical and zoological gardens, parks, &c., in the vicinity of Paris, and notably the Trocadero and its aquarium, and beautifully laid-out surroundings.

Before leaving, I made the usual arrangements for mutual exchanges with the Museum authorities.

At Amsterdam the Zoological Gardens were the chief attraction, and the collection there is one of the best in Europe. Visited the museums and libraries. The aquarium here is one of the few I found in good working order; of this I obtained plans, &c., which were duly forwarded to the Board.

The museum of Japanese works and ethnological collection is very extensive and unique; the chief objects of interest being the ethnological collections, zoological museum, library, collection of insects and shells, and the museum of "Invertebrated animals." There are many separate buildings scattered over a large open space, beautifully laid out, in connection with the Zoological Gardens in which they are placed.

At Hanover I visited the zoological gardens, aquarium, and museum; all were on a very small scale, and exhibited no particular feature of interest.

At Bremen I had ample opportunity of examining the collections in the zoological museum, through the kindness of Dr. Finsch, late Director or Curator of that institution. Took note of the arrangements of the cases and stuffing of the birds, &c., &c., which were much better than those usually displayed in continental museums. The cases, with blinds, were placed at right angles to the walls as in other museums, with windows to the floor in the interspaces, so as to get all the light possible. Here group-labels are used, and blocks containing the genus name placed at the beginning of each species.

The corals are mounted on polished stands, upright, and the crustacea similarly placed on wires in stands, on which the names are printed; the Echinodermata in a similar way. This was the case in most continental museums. I still prefer the English method; and types liable to fade should never be exposed to the light, even though protected by blinds.

I also examined here the large ethnological collections, recently made by Dr. Finsch, in Micronesia and Polynesia. They include a large number of weapons, &c., as well as numerous casts of the heads, faces, and busts, taken from life from typical individuals of the different islands. Arrangements were made to secure a complete set for the Museum.

The museums of Leyden and Berlin were visited chiefly with the view of seeing the grand collections made by the old naturalists. Between them, these museums contain the bulk of the collections of Cuvier and Valenciennes, of Bloch and Pallas—now over 100 years old; also those of Erhenberg, Temmink, Erichson (*insects*), Leichenstein, Cabanis, Boddeart, Rudolphi, Finsch, Bleeker, &c. In Berlin I saw Dr. Peters' grand collection of reptiles, frogs, and bats, and Von Martin's Echinodermata. Large collections of birds and mammals, and extensive osteological collections were in both museums. The cases at Berlin were among the best I had seen out of England, and wherever possible placed at right angles to the walls, with open bays between them; the windows down to the floor, so as to obtain the greatest amount of light. This method is the one now universally adopted in English and European museums. The methods of mounting and exhibiting the specimens vary very little.

The fish markets and aquaria were also visited. The salmon, trout, carp, tench, and eels are kept alive in tanks, and as selected sold to the public, at prices varying from 1s. to 6s. per lb., according to the species and supply on hand.

At Brussels I made arrangements with the museum authorities for exchanges of casts of their magnificent fossils—this museum being celebrated for the grand collections of Cetacean and Reptilian remains of extinct animals.

The museum at Utrecht is connected with the University; the collections are arranged for teaching purposes in large class-rooms for students, and consist chiefly of invertebrates. One of Loewen-hock's

hock's *microscopes*, or rather lenses—the most primitive and simple contrivance that can be well imagined, but by which *Infusoria* were first discovered (about 1675) in a drop of water—was an object of great interest.

At Florence, under the direction of Professor Giglioli, is one of the best arranged museums in Europe—the collections are in first-class order, and clearly and well exhibited. There is a grand collection of Italian vertebrates, the most extensive in Europe, while nearly all the other families of vertebrates and invertebrates are well represented by typical forms. It contains some hundreds of models of human anatomy for the use of students, as well as a grand ethnological collection. The astronomical and other instruments of Galileo, and his *finger*, cut off by the Romans, are among its most interesting relics.

I remained for about a week at Naples, visiting daily the zoological station and aquarium, where, through the courtesy of Dr. Dorn, the Director, I was enabled to obtain much valuable information as to the working of the station, and the most approved and recent methods of curing and preserving spirit specimens. The aquarium here is undoubtedly the best in the world, and the only one which can be looked upon as a decided success from a scientific point of view; it is admirably arranged, and every facility was given me by Dr. Dorn for seeing the working and maintenance of the large collections exhibited there. Plans and full details of its construction have been already laid before the Board.

With respect to the aquaria, as I have before mentioned, although I visited those of Edinburgh, Brighton, London on several occasions, and those of the International Fisheries Exhibition almost every day for over a period of five months, I found very little in either arrangement or management likely to be of use to us in Australia. On the Continent, those of Paris, Hamburg, Sweden, Berlin, Amsterdam, and others were visited; they all resemble each other in the main points, but those of Amsterdam and Naples are the most important, and of these I have already laid before the Board plans and specifications in detail. With such a harbour as that of Port Jackson and our beautifully clear and pure water, with a fall and rise of the tide of from 5 to 6 feet, none of the expensive machinery used in other countries is required, and a beautiful and useful establishment of this kind could be erected at Lady Macquarie's Chair, opposite Garden Island, in the Inner Domain, at a comparatively trifling cost.

Finally, I may mention that at each and every museum I visited, whether private or public, I made satisfactory arrangements for mutual exchanges; many of these exchanges I brought out with me, or sent them on before I left England, and since my return many others have arrived; these will be found enumerated in the various Appendices.

The large and valuable additions will speak for themselves, and show what success I met with during my tour.

I have, &c.,

ED. P. RAMSAY,

Curator.

APPENDIX No. I.

PRESENTED BY THE INDIAN COMMISSION, THROUGH DR. DAY.

Mollusca.

10 Paludina bengalensis.	3 Arca sp.?
6 " sp.?	2 " "
14 Planorbis sp.?	1 Turbo radiatus.
6 Purpura sp.?	1 Unio sp.
10 Tympanotonos fluviatilis.	1 " "
5 Cypraea zonata. Var.	1 " "
2 Hydatina vexillum.	1 " "
2 " physis.	4 Nassa arcularia.
22 Limnaea luteola.	4 " sp.
4 Monodonta australis.	2 Bullia sp.
4 Oliva gibbosa.	1 Natica lineata.
2 Conus punctatus.	1 Cardita antiquata.
60 Bulimus sp.?	2 Tellina excavata.
1 Conus araneosus.	1 Conus textile.
1 " arenatus.	1 Helix sp.
3 Nassa thesites.	1 Conus sp.
20 Columbella terpsichore.	1 Pecten sp.
4 Ranella tuberculata.	1 Dentalium sp.
9 Nerita albicilla.	2 " "
1 Hemifusus colosseus.	5 " "
1 Soleletellina diplois.	1 Murex sp.?
6 Murex contractus.	26 Bithynia sp.?
3 Cultellus japonicus.	4 Meleagrina margaritifera.
3 Purpura bufo.	1 Mitra proscissa.
2 " rudolphi.	1 Paludina sp.
3 Cuma carinifera.	1 Dosinia lucinoides.
1 Rapana bulbosa.	2 " exasperata.
3 Donax scortum.	1 Melo indica.
1 Cypraea ocellata.	1 " broderipi.
1 Circe divaricata.	1 Voluta scapha.
2 " marmorata.	1 " vespertilio.
3 Cypriocardia sp.?	1 Purpura persica.
3 Cassidula sp.?	1 Conus betulinus.
1 Mytilus smaragdinus.	2 Circe gibba.
3 Unio sp.	1 Conus pulicarius.
1 Arca sp.	2 Mytilus nicobaricus.

Mammals.

1 Otter—Lutra sp.

Birds.

1 Pelecanus gangeticus.	2 Halcyon smyrnensis.
1 Plotus melanogaster.	1 " pileata.
1 Botaurus stellaris.	

Reptiles.

Reptiles.

1 Crocodilus biporcatus.	1 Emyda sp.
1 Caonna olivacea.	1 " sp.
1 Emyda vittata.	

Crustacea.

2 Palomon.	2 Squilla.
2 Palinurus.	

PRESENTED BY DR. WOODWARD.

Mollusca.

1 Bulimus auris-vulpina.	1 Cardium echinitum.
3 Buccinum undulatum.	2 Pollicipes cornucopia.
4 " sp.	Numulites lævigatus (Eocene, England).
1 Fusus antiquus.	

PURCHASED.

Mollusca.

7 Unio margaritiferus, from the Tay.	12 Ostrea rostrata.
160 Pearls from same, "	12 " lamellosa.

CHILIAN COMMISSION. (Exchange.)

Mollusca.

2 Mytilus unguatus.	2 Concholepas peruvianus.
2 " californianus.	3 Solecurtus caribæus.
2 " chiliensis.	2 Venus costellata.
1 Pecten purpuratus.	1 Ostrea chilensis.

FROM PERTH, SCOTLAND. (Exchange.)

Mollusca.

4 Helix aspersa.	11 Aneylus fluviatilis.
6 " nemoralis.	9 Balea perversa.
9 " caperata.	3 Bulimus obscurus.
2 " rupestris.	12 Planorbis albus.
3 " pygmæa.	8 " contortus.
6 " hispida.	5 Carychium minimum.
10 " arbustorum.	4 Vertigo edentula.
6 " hortensis.	4 Pisidium fontinale.
11 Zonites fulvus.	11 Sphærium corneum.
5 " purus.	26 Papa umbilicata.
7 " alliaris.	4 Succinea putris.
9 " crystallinus.	5 Valvata piscinalis.
9 " cellarius.	10 Linnæa palustris.
10 " nitidulus.	18 " peregra.
12 Vitrina pellucida.	5 " "
30 Clausilia rugosa.	10 " truncatulus.
14 Zua lubrica.	

PURCHASED.

6 Ostrea lamellosa.	22 Helix virgata, South Brighton, England.
28 " edulis, from Whitstable.	1 " ericetorum, South Brighton, England.
7 " " French oysters from Whitstable.	2 " sp. "
3 Mytilus edulis, Mediterranean.	1 Pecten clavatus, Naples.
2 Pecten maximus, England.	1 " opercularis, "
4 " " Naples.	

EXCHANGE.

Collection of 23 varieties of Ostrea edulis. 1 Ostrea sp. from Portuguese Beds.

PURCHASED FROM E. GERRARD, JUNR.

Mammals.

1 Ourang—Simia satyrus. Linn.	2 Sable Antelopes—Ægocerus niger.
1 Baboon—Cynocephalus hamydryus. Linn.	2 Roan " —Ægocerus leucophæus.
1 Tapir—Tapirus leucogenys.	2 Sassaby " —Damalis lunatus.
1 Chimpanzee—Trogodytes niger, ♂. Geoff.	1 Pronghorn—Antilocapra americana.
1 Gorilla— " gorilla, ♀. Savage.	1 Michie's Tufted Deer—Lophotragus michianus.
1 Wild Sheep—Ammotragus tragelaphus. Gray.	1 Lagotherix humboldtii.
1 Brindled Gnu—Catoblepas taurina.	1 Cercopithecus cephus.
1 Sæmmerring's Antelope—Gazella sæmmerringii.	1 Colobus bicolor.
Cretz.	1 Sciurus bicolor.
1 Articulated Skeleton—Myrmecophaga jubata.	1 Cheironectes variegatus.
1 Skeleton of Simia satyrus, ♂.	1 Macroxus punctatissimus.
1 " Tapirus leucogenys.	1 Felis canadensis.
1 " Trogodytes niger, ♂.	1 Centetes caudatus.
1 " " gorilla, ♂.	1 Zebra—Egnus burchelli.
1 " Porpoise—Delphinus sp.	1 " Gaur"—Bos gaurus.
2 Skulls of Hydrochærus capybara.	1 Eland—Oreos cauna.
1 Lagostomus trichodactylus. Brookes.	

Birds.

- 2 Ceratorhynchus monocerrata, ♂ ♀.
 2 Querquedula falcata, ♂ ♂.
 2 Phalaris pusilla, ♂ ♂.
 1 Puffinus leucomelas, ♂.
 1 Spizaetus ornatus.
 1 Spilornis pallidus.
 1 Herpehellon sp.
 1 Microhierax fringillarius.
 1 Chauna chavaria, ♂.
 1 Ketupa javensis.
 2 Scops lempijii.
 1 Batrachostomus affinis.
 2 Eutamias pileata.
 1 Carcinnetes pulchella.
 1 Ceyx tridactylus.
 2 Amazonis superciliosa.
 1 Galbula paradisea.
 1 Bucco collaris.
 1 Megaloma versicolor.
 1 Xantholema dewancellii.
 1 Brachypteracias squamigera.
 1 " leptosomus.
 1 Platystiera leucopygialis.
 1 Callene rufiventris, ♂.
 1 Trochalopterus cachimus.
 1 Muscipeta paradisea, ♂.
 1 " " ♀.
 1 " " ♀.
 5 Xipholema lamellipennis.
 1 Pitta sp.
 1 " granatina.
 1 " cinchlorhyncha, ♂.
 1 Formicivora leucophrys.
 1 Hylactes analis.
 1 Geocichla peronii. Vieill.
 1 Myiophoneus horsfieldii, ♂.
 1 Arapunga niveus.
 1 Psilopogon pyrolophus.
 1 Trogon macrurus.
 1 Monassa pallescens.
 1 Bernieria madagascariensis.
 2 Philippitta castanea, ♀.
 1 Cassicus flavicristatus, ♂.
 1 Cephalopterus ornatus.
- 2 Gymmoderus fortidus.
 2 Stoporala albicaudata, ♂ ♂.
 1 Thamnobia falcata, ♀.
 2 Dromocercus brunneus.
 1 Leptasthemera oegithaloides, ♀.
 1 Basileuterus nigricristatus.
 1 Calicalicus madagascariensis.
 1 Formicivora melanopogon.
 2 Anæretes parvulus, ♂ ♀.
 3 Ochromela nigrorufa, ♂ ♂ ♀.
 2 Cyanotis omnicolor, ♂ ♂.
 2 Phasianus sommerringii Tem., ♂ ♀.
 1 " versicolor, ♂.
 2 Gallus sonneratii, ♂ ♀.
 1 Argus gigantea, ♀.
 1 Nothocercus bonapartii.
 1 Numidia vulturina.
 2 Galloperdix spadicea, ♂ ♀.
 2 Rollulus niger, ♂ ♀.
 1 Columba speciosa.
 1 Ocyrceros brevirostris, ♂.
 1 Berenicornis albo cristata.
 1 " comatus.
 1 Picathartes gymnocephalus.
 1 Andigena hypoglaucus.
 1 Rhamphomelus spilorhynchus.
 2 " sclateri.
 5 Eubucco richardsonii.
 1 Phasianus versicolor, ♀.
 1 Nectarinia alberti.
 1 " chimbarazo.
 2 Palaeornis columboides, ♂ ♂.
 1 " schisticeps, ♂.
 2 Rhyncha bengalensis.
 1 Nettapus auritus.
 1 Halcyon conereta.
 1 Pitta cyanoptera.
 2 Atticora fasciata.
 1 Celes sp.
 2 Stachyris poliocephala.
 2 Sasia abnormis.
 2 Limonidromus indicus.
 1 Pionias histrio.
 1 Chalcopsitta (?) histrio.

Reptiles.

- 1 Python molurus. Skeleton.

Insecta.—Lepidoptera.

- 1 Ornithoptera brookiana, ♀.

MR. SHARPE. (Purchased.)

Birds.—Types, &c., of Genera.

- 1 Baza lophotes ♀.
 1 Zoothera monticola.
 1 Coccydon minatrinus, ♀.
 1 Pytiriasis gymnocephala.
 1 Mülleripicus pulverulentus, ♂.
 1 Pitta cerulea.
 1 Hydrornis nipalensis.
 1 Phœnicophaea erythronathus, ♂.
 1 " pynocephalus, ♀.
 1 Urolestes melanoleucus.
 1 Asturina monogrammicus.
 1 Hierococcyx sparverius.
 1 Tockus ginjaensis, ♂.
 1 Ptilopus jambos.
 1 Pitta cyanea.
 1 Leptosoma discolor.
 1 Syrnium ocellatum, ♀.
 1 Hœmatospiza sipatii, ♂. (Type.)
 1 Phyllostrophus capensis. "
 1 Sialia colicolar. (Type.) "
 1 Mesia argentea, ♂.
 1 Serilophus lunatus, ♀.
 1 Trichostoma abbotti.
 1 Parus niger.
 1 Carpodacus erythrinus, ♂.
 1 Uragus sibericus, ♀.
 1 Proparus chrysæus.
 1 Trochalopterus jerdoni.
 1 Drymoica lavaillantii, ♂.
 1 Emberiza melanocephala, ♂.
 1 Arachnothera magna, ♂.
 1 Siphia strophata, ♂. (Type.)
 1 Pellornepum ruficeps, ♂.
 1 Erithacus gutturalis. (Type of E. Irania). ♂.
 1 Certhilauda rupia.
- 1 Proopygia squamata, ♂. Gould.
 1 Oligura cyaniventris.
 1 Hierax cœrulescens.
 1 Aethopygia ignicauda, ♂. (Type.)
 1 Trichixos pyrrhopygus, ♂. "
 1 Kenopia striata.
 1 Xanthopygia narcissina. (Type.)
 1 Rimator melacoptilus, ♂.
 1 Xiphorhamphus supercilialis. (Type.)
 1 Machilophus spilnotus.
 1 Ploceus hypoxanthus, ♂.
 1 Agithalus nipalensis, ♂. (Type.)
 1 Uragus sibiricus, ♂.
 1 Agithaliscus erythrocephalus. (Type.)
 1 Ixulus occipitalis, ♂. (Type.)
 1 Sitta nipalensis.
 1 Macronus ptilosus, ♂.
 1 Prinia socialis, ♀.
 1 Larvivora supercilialis, ♂.
 1 Pica caudata.
 2 Pica sp., ♂ ♀.
 1 Carpophaga sylvatica, ♀.
 1 Pelargopsis leucocephala.
 1 Columba œnas.
 1 " intermedia, ♂.
 1 Graucalus layardi. Bl., ♂.
 1 Circus swainsoni, ♂.
 1 Cerchneis tinnunculus. L.
 1 Numenius phœopus, ♀. Lian.
 1 Columba œnas, ♂. Linn.
 1 Turtur communis. Selby.
 1 Baza lophotes, ♂.
 1 Sturnopastor supercilialis, ♀.
 1 Sturnopastor minuta, ♂.
 1 Oriolus galbula. L.

* i.e., species not the individual on which the genus was founded.

Birds—continued.

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|--|-------------------------------------|
| 1 <i>Tringoides hypoleucus</i> . | 1 <i>Chlorospiza chloris</i> , ♀. |
| 1 <i>Malacocircus cinereifrons</i> . Bl. | 1 <i>Chrysomitris spinus</i> . L. |
| 1 <i>Tringa canutus</i> , ♀. | 1 <i>Emberiza schœniela</i> , ♂. |
| 1 <i>Pellorneum ruficeps</i> , ♀. | 1 <i>Merops viridis</i> . Lin., ♂. |
| 1 <i>Emberiza citrinella</i> , ♀. | 1 <i>Siphia strophata</i> . |
| 1 <i>Turdus musicus</i> , ♀. L. | 1 <i>Emberiza</i> sp., ♂. |
| 1 <i>Turtur communis</i> . | 1 <i>Chrysomitris tristis</i> . |
| 1 <i>Turdus iliacus</i> . L. | 1 <i>Pyrrhula vulgaris</i> , ♀. |
| 1 <i>Accipiter nisus</i> . L. | 1 <i>Temeneuchus</i> sp., ♂. |
| 1 <i>Turdus merula</i> . L. | 1 <i>Nittava sundica</i> , ♂. |
| 1 <i>Fringilla montifringilla</i> , ♀. | 1 <i>Tringoides hypoleucus</i> . L. |
| 1 <i>Lanius cristatus</i> . Lin. | 1 <i>Sylvia phragmites</i> , ♂. |
| 1 <i>Tyrannus carolinensis</i> , ♀. | 1 <i>Parus varius</i> . |
| 2 <i>Fringilla cœlebs</i> , ♂ ♀. | 1 <i>Phylloscopus rufus</i> . |
| 3 <i>Lanius collurio</i> , ♂ ♀ ♂. | 1 <i>Emberiza citrinella</i> , ♀. |

MR. SWAYSLAND. (Purchased.)

Birds.

- | | |
|---------------------------------|-----------------------------------|
| 2 <i>Limosa lapponica</i> . | 1 <i>Daulias lusciniæ</i> . |
| 2 <i>Tringa alpina</i> . | 1 <i>Sylvia curruca</i> . |
| 1 <i>Sterna fluviatilis</i> . | 1 <i>Locustella naevia</i> . |
| 1 <i>Linota cannabina</i> . | 1 <i>Sterna cantiaca</i> . |
| 1 <i>Emberiza cirrus</i> . | 2 <i>Streptopelia interpres</i> . |
| 1 <i>Anthus pratensis</i> . | 1 <i>Tringa maritima</i> . |
| 1 <i>Ruticilla phœnicurus</i> . | |

D. BRUCCIANI & Co. (Purchased.)

Casts.

- | | |
|---|--|
| 1 Colored cast of skull of <i>Sivatherium</i> . | |
| 1 " " and jaw of <i>Mastodon</i> . | |
| 1 " " and tusks of <i>Elephas ganessa</i> . | |

MR. DUNN. (Purchased.)

Fishes.

- | | |
|-----------------------------------|--------------------------------------|
| 1 <i>Zeus faber</i> . | 1 <i>Tinca vulgaris</i> . |
| 1 <i>Trigla</i> sp. | 1 <i>Nemysius erythrophthalmus</i> . |
| 50 <i>Clupea sprattus</i> . | 3 <i>Mullus surmuletus</i> . |
| 1 <i>Galeus canis</i> . | 1 <i>Pagellus erythrinus</i> . |
| 5 <i>Clupea harengus</i> . | 1 <i>Lophius piscatorius</i> . |
| 3 <i>Scyllium canicula</i> . | 8 <i>Ammodytes lancea</i> . |
| 6 <i>Acanthias vulgaris</i> . | 9 <i>Agonus cataphractus</i> . |
| 9 <i>Liparis montagui</i> . | 10 " " |
| 4 <i>Atherina presbyter</i> . | 1 <i>Carcharias glaucus</i> . |
| 2 <i>Gadus cadmanus</i> . | 4 <i>Zeus faber</i> . |
| 7 <i>Scomber scomber</i> . | 1 <i>Ammodytes lancea</i> . |
| 4 <i>Gadus luscus</i> . | 12 <i>Pleuronectes flesus</i> . |
| 3 <i>Blennius pholis</i> . | 3 <i>Engraulis encrasicolus</i> . |
| 2 <i>Gadus</i> sp. | 3 <i>Conger vulgaris</i> . |
| 7 <i>Motella mustela</i> . | 3 <i>Raia maculata</i> . |
| 2 <i>Eperlanus eneramepolus</i> . | 2 <i>Trigla hirundo</i> . |
| 1 <i>Syngnathus acus</i> . | 2 <i>Labrus maculatus</i> . |
| 2 <i>Gadus carbonarius</i> . | 2 <i>Mugil capito</i> . |
| 2 <i>Galeocerdo articus</i> . | 3 " chelo. |
| 2 <i>Nerophis trippensis</i> . | 3 <i>Trigla lineata</i> . |
| 14 <i>Cottus bubalis</i> . | 1 <i>Trachinus draco</i> . |
| 1 <i>Gadus pollachius</i> . | 1 <i>Galeus canis</i> . |
| 8 <i>Gobius minutus</i> . | 2 <i>Trigla gurnardus</i> . |
| 10 <i>Pagellus centrodontus</i> . | 3 <i>Pagellus centrodontus</i> . |
| 6 <i>Clupea pilchardus</i> . | 1 <i>Rhina squatina</i> . |
| 34 <i>Pleuronectes limanda</i> . | 2 <i>Labrus mixtus</i> . |
| 5 <i>Raia clavata</i> . | 4 <i>Callionymus lyra</i> . |
| 2 <i>Zeus faber</i> . | 3 <i>Pleuronectes lineata</i> . |
| 1 <i>Raia maculata</i> . | 1 <i>Rhombus lævis</i> . |
| 10 <i>Gadus merlangus</i> . | 3 " veritas. |
| 14 <i>Solea vulgaris</i> . | 3 <i>Belone ferox</i> . |
| 19 <i>Pleuronectes platessa</i> . | 1 <i>Rhombus maximus</i> . |
| 1 <i>Nerophis ophidion</i> . | 4 <i>Gadus luscus</i> . |
| 2 <i>Lota molva</i> . | 1 " pollachius. |
| 2 <i>Motella tricirrhatæ</i> . | 2 <i>Gobius minutus</i> . |
| 2 <i>Alpinus</i> sp. | 1 <i>Cottus scorpius</i> . |

Mollusca.

- | | |
|-----------------------------|--|
| 1 <i>Octopus vulgaris</i> . | 3 <i>Loligo</i> sp. |
| 1 <i>Sepia</i> sp. | <i>Cardium</i> , <i>Mytillus</i> , &c. |
| 1 <i>Eliame moschata</i> | |

Crustacea.

- | | |
|---|-------------------|
| 3 <i>Portunus corrugatus</i> , &c., &c. | <i>Penæus</i> sp. |
|---|-------------------|

Fishes—continued.

4 <i>Laniopercia mordax</i> .	1 <i>Trachurus trachurus</i> .
2 <i>Galaxias truttaceus</i> .	2 <i>Mugil</i> sp.
2 <i>Sebastes percoideus</i> .	3 Labridæ.
1 <i>Chilodactylus mulhallii</i> .	2 <i>Neptomenus brama</i> .
1 " sp.	1 <i>Chilodactylus macropterus</i> .
2 <i>Caranx georgianus</i> .	3 <i>Salmo trutta</i> .
1 <i>Chrysophrys australis</i> .	4 <i>Perca fluviatilis</i> .
3 <i>Arripis salar</i> .	3 <i>Monacanthus tomentosus</i> .
1 <i>Platycephalus bassensis</i> .	1 <i>Thyrsites solandri</i> .
2 " <i>cinereus</i> .	1 <i>Thyrsites atun</i> . C. & F.
4 <i>Sillago bassensis</i> .	1 Ray.
1 <i>Girella tricuspidata</i> .	13 <i>Atherina tamarensis</i> .
5 <i>Agonostoma diemenensis</i> .	1 <i>Lophotes cepedianus</i> .
1 <i>Histiogaster recurvirostris</i> .	

Crustacea.

2 Freshwater crayfish— <i>Astacopsis</i> (?)	1 <i>Astacopsis Franklinii</i> .
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RECEIVED FROM CAPT. WARDLAW RAMSAY. (Exchange.)

Birds.

1 <i>Cacatua hæmaturophygia</i> .	1 <i>Turtur</i> sp.
2 <i>Loriculus barlaubi</i> .	1 <i>Acridotheres</i> sp.
2 " <i>regulus</i> .	1 <i>Pelargopsis gigantea</i> .
2 <i>Osmotreron axillaris</i> .	1 <i>Tanygnathus lucionensis</i> .

RECEIVED FROM BRITISH MUSEUM.

Casts.

2 Casts of <i>Thylacoleo carnifex</i> .	5 Casts of <i>Megalanina prisca</i> .
1 " <i>Toxodon platensis</i> .	2 " <i>Archæopteryx</i> .

RECEIVED BY EXCHANGE AND PURCHASED.

Corals.

1 <i>Acanthopora horrida</i> . Dana.	1 <i>Millepora moniliformis</i> . Dana.
1 <i>Agaricia agaricites</i> . Pallas.	2 " <i>alcicornis</i> . Lin.
1 <i>Alveopora retusa</i> . Verrill.	2 " <i>gonagra</i> . M. Ed.
1 " <i>daedalea</i> . Forsk.	1 <i>Montipora</i> sp.
1 <i>Amphihelia infundibulifera</i> . Lamk.	1 " <i>gracilis</i> .
1 <i>Antillia geoffroyi</i> .	2 " <i>tuberculosa</i> . Lam.
1 <i>Astrangia danae</i> . Agass.	6 " <i>foliosa</i> . Pallas.
1 <i>Astraea denticulata</i> . El. & Sol.	1 " <i>hispidula</i> . Dana.
1 " <i>porcata</i> . Esper.	1 <i>Mopsella textiformis</i> . Lamak.
1 <i>Blussidigorgia agassizii</i> .	1 <i>Muricea echinata</i> . Valenc.
1 <i>Colonia labyrinthica</i> .	1 <i>Muricella umbraticoides</i> . Studeo.
1 <i>Ceratella fusca</i> . Gray.	1 <i>Mussa carduus</i> . Lam.
1 <i>Chitina ericopsis</i> . Carter.	1 " <i>sinuosissima</i> .
1 <i>Cycloseris malayana</i> .	2 " <i>echinulata</i> . M. Ed. & H.
1 <i>Dendrophyllia ramea</i> . Linn.	1 " <i>aspera</i> .
1 " <i>aquiserialis</i> . M. E. & H.	1 " <i>sinuosa</i> . Lam.
1 " <i>nigrescens</i> . Dana.	1 " <i>radians</i> .
1 <i>Distichopora nitida</i> . Ferr.	1 " <i>umbellata</i> . Brugg.
1 " <i>violacea</i> .	1 <i>Oculina pallens</i> . Ebr.
1 " <i>coccinea</i> . Gray.	3 " <i>diffusa</i> . Dana.
1 <i>Echinomuricea</i> sp.	1 " <i>catenata</i> . Brugg.
1 <i>Echinopora horrida</i> . Dana.	1 " <i>valenciennesi</i> . Ed. & H.
1 " <i>helli</i> . Rouss.	1 " sp.
1 <i>Errina aspera</i> . Esper.	1 <i>Pachyceris</i> sp.
1 <i>Euphyllia fimbriata</i> . Spengl.	1 <i>Paragorgia arborea</i> .
1 <i>Eusmilia knorri</i> . Ed. & H.	1 " <i>johnstoni</i> .
1 <i>Fungia confertifolia</i> . Dana.	1 <i>Pavonia cristata</i> .
1 " sp.	1 <i>Phyllastræa tubifex</i> .
1 " <i>linnei</i> . Valenc.	2 <i>Plexaura flexuosa</i> . Valenc.
1 " <i>repanda</i> . Dana.	1 <i>Pocillopora cervicornis</i> .
1 " <i>danae</i> .	1 " <i>bulbosa</i> . Ed. & H.
1 <i>Galaxea</i> sp.	1 " <i>damicornis</i> . Esper.
1 " sp.	1 " <i>acuta</i> . Lam.
1 " <i>esperii</i> . Sch.	1 " <i>verrucosa</i> .
1 <i>Gomastrea</i> sp.	1 <i>Podobacea crustacea</i> . Pallas.
1 " sp.	1 <i>Pollyphyllia</i> sp.
1 <i>Gorgonia</i> sp.	1 <i>Porites conferta</i> . Dana.
1 <i>Heteropsammia cochlea</i> . Sprengel.	1 " <i>astræoides</i> . Lam.
1 " <i>michelinii</i> . Ed. & H.	1 " <i>clavaria</i> . Lam.
1 <i>Heterocyathus aquicostatus</i> . Ed. & H.	1 " <i>fureata</i> .
1 <i>Hydnophora</i> sp.	1 <i>Prionastrea abdita</i> . El. & Sol.
1 " <i>polygonata</i> .	1 <i>Seriopora elegans</i> . Ed. & H.
1 " <i>exesa</i> . Pallas.	1 <i>Siderastrea radeans</i> . Agass.
1 <i>Hydrachnia echinata</i> . Flem.	1 <i>Solenastrea hyades</i> . Verrill.
1 <i>Leptoseris fragilis</i> . M. Ed. & H.	1 <i>Stephanocoris lamellosa</i> . Verrill.
1 <i>Leptoseris cerebriformis</i> .	1 " <i>exarata</i> . Brugg.
1 <i>Madrepora arbuscula</i> . Dana.	1 <i>Stylaster elegans</i> . Verrill.
1 " <i>muricata</i> . Esper.	1 " <i>sanguineus</i> . Ed. & H.
2 " <i>flabellum</i> . Lamark.	1 " <i>gracilis</i> . Ed. & H.
5 <i>Manicina areolata</i> . Linn.	1 <i>Stylophora pistillata</i> . Esper.
1 <i>Meandrina filigrana</i> . Esper.	1 <i>Trachyphyllia amarantum</i> . Dana.
1 " <i>mammosa</i> . Dana.	2 <i>Tridachnophyllia lactuca</i> . Pallas.
1 <i>Merulina ampliata</i> . Sol. & Ellis.	1 <i>Tubipora musica</i> .
1 <i>Millepora fimbriata</i> . Speng.	1 <i>Turbinaria mesenterina</i> .
2 " <i>ramosa</i> . Pallas.	2 " "

RECEIVED

RECEIVED FROM CHILIAN COMMISSION. (*Exchange*.)*Mammals.*

Black seal. Otaria sp. | Grey seal. Otaria sp.

Fish.

16 specimens, dry.

DR. SCLATER. (*Exchange*.)*Bird.*1 *Coriphilus kuhlii*.RECEIVED FROM SWEDISH COMMISSION. (*Exchange*.)

BONES OF RHYTINA STELLERI.

1 Portion of skull.	1 Portion of sacral vertebra.
1 " scapula.	8 Dorsal vertebrae.
1 Lower jaw.	4 Lumbar "
1 " left ramus.	8 Caudal "

RECEIVED FROM E. GERRARD, JUNR. (*Exchange*.)*Mammal.*1 Aye-aye. (*Cheiromys madagascariensis*. Cuv.)RECEIVED FROM NORWEGIAN COMMISSION. (*Exchange*.)*Fishes.*

8 <i>Gadus merlangus</i> .	4 <i>Anarrhichas lupus</i> . L.
8 <i>Squalus acanthias</i> .	2 <i>Perca fluviatilis</i> .
7 <i>Gadus morhua</i> . L.	6 <i>Gadus aglefinus</i> . L.
10 <i>Clupea harengus</i> . L.	4 " <i>virens</i> . L.
2 <i>Sebastes dactylophorus</i> .	14 <i>Coregonus</i> sp.
2 <i>Platessa pleuronectes</i> .	2 <i>Alburnus lucidus</i> . H. & K.
2 <i>Trecherita vulgaris</i> .	3 <i>Petromyzon</i> sp.
1 <i>Solea vulgaris</i> .	1 <i>Gunnellus vulgaris</i> .
1 <i>Scyllium annulatum</i> .	1 <i>Conger vulgaris</i> .
3 <i>Scomber scombrus</i> . L.	1 <i>Coregonus lavaretus</i> .
9 <i>Salmo salar</i> .	2 <i>Clupea sprattus</i> .
2 <i>Sebastes norvegicus</i> .	21 <i>Lophius piscatorius</i> . L.
2 <i>Solea</i> sp.	2 <i>Gadus minutus</i> .
2 <i>Perca fluviatilis</i> .	3 <i>Labrus mixtus</i> .
4 <i>Gadus merluccius</i> .	1 <i>Crenilabrus melops</i> .
4 <i>Cyclopterus lumpus</i> . L.	2 <i>Acantholabrus exoletus</i> .
3 <i>Brosimius</i> sp.	5 <i>Cottus celapus</i> .
1 <i>Brosimius brosmo</i> .	1 " <i>scorpius</i> .
2 <i>Trigla hirundo</i> .	1 <i>Motella mustela</i> .
1 <i>Trigla</i> sp.	4 <i>Thymallus vulgaris</i> .
2 <i>Raniceps raninus</i> .	3 <i>Merlangus pollachius</i> .
2 <i>Labrus maculatus</i> .	2 <i>Labrus rupestris</i> .
1 <i>Pagellus centrodontus</i> .	1 <i>Gadus poutassou</i> .
2 <i>Lota vulgaris</i> .	2 <i>Leuciscus</i> sp.
2 <i>Argentina silus</i> .	2 <i>Cottus bubalis</i> .
4 <i>Platessa microcephalus</i> .	2 <i>Cyprinus carpio</i> .
2 <i>Rhombus maximus</i> .	6 <i>Cottus poecilopus</i> .
2 <i>Pleuronectes flesus</i> . L.	4 <i>Osmerus eperlanus</i> .
6 <i>Salmo trutta</i> .	3 <i>Nephrops norvegicus</i> .
1 <i>Chimæra monstrosa</i> . L.	3 <i>Spinachia vulgaris</i> .
1 <i>Ammodytes lancea</i> .	1 <i>Gobius microps</i> .
1 <i>Pagrus</i> sp.	1 <i>Gasterosteus aculeatus</i> . L.
<i>Argyropelecus olfersii</i> .	1 <i>Gobius</i> sp.

Crustacea.

1 <i>Galathea strigosa</i> . L.	1 Parasite on eye of <i>Clupea sprattus</i> .
1 <i>Hyas coarctata</i> . Lead.	2 <i>Isopoda</i> sp.

Mollusca.

1 <i>Aplysia punctata</i> . Cur.	1 <i>Modiola modiolus</i> . L.
1 <i>Patella vulgata</i> . L.	1 <i>Buccinum undatum</i> . L.
1 <i>Lima hians</i> . Gm.	1 <i>Dendronotus arborescens</i> . Müll.
1 <i>Mytilus edulis</i> . L.	1 <i>Purpura lapillus</i> . L.
Oysters on timber.	1 <i>Saxicava rugosa</i> . L.
2 <i>Ostrea edulis</i> . L.	

Echinodermata.

1 <i>Ophiocoma nigra</i> . Müll.	1 <i>Asterias glacialis</i> . Müll.
1 <i>Astrogonium phrygianum</i> .	3 " sp.
1 <i>Solaster endeca</i> . L.	3 <i>Ophiocoma</i> sp.
1 <i>Asteropsis pulvillus</i> .	1 <i>Asteracanthion rubens</i> .

RECEIVED FROM PROFESSOR NEWTON, CAMBRIDGE UNIVERSITY. (*Exchange*.)*Bones of Pezophaps solitaria.*

2 Femora.	9 Vertebrae.
2 Tibiae.	2 Quadrate bones.
2 Tarsal bones.	1 Humerus.
2 Fibulae.	1 Coracoid.
1 Portion of an upper mandible.	1 Portion of Cranium.
3 Portions of lower mandibles.	1 " Sternum.

Bones of Didus ineptus.

1 Pelvis.	2 Tarsal bones.
1 Sacrum.	1 Femur.
2 Tibia.	

RECEIVED

RECEIVED FROM SAVILLE KENT, ESQ., F.Z.S., &c.

Fish.

- | | |
|------------------------|---------------------------|
| 4 Seyllium canicula. | 1 Petromyzon marinus. |
| 8 Acanthias vulgaris. | 1 Blennius gattorugine. |
| 10 Liparis montagui. | 1 Lota vulgaris. |
| 14 Cottus scorpius. | 1 Lepidogaster gouanii. |
| 3 Labrus maculatus. | 1 Gobius niger. |
| 2 Raia batis. | 1 Zoarces viviparus. |
| 4 Trigla hirundo. | 1 Nerophis æquoreus. |
| 2 Lophius piscatorius. | 1 Cyprinus specularis. |
| 2 Trachinus draco. | 1 Perca lucioperca. |
| 4 Rhina squatina. | 1 Coregonus pollan. |
| 4 Syngnathus acus. | 1 Acipenser sturio. |
| 1 Silurus glanis. | 1 Trachinus vipera. |
| 1 Cyclopterus lumpus. | 1 Petromyzon fluviatilis. |
| 1 Cottus gobio. | 1 Hippocampus ramulosus. |
| 1 Mustelus vulgaris. | 1 " antiquorum. |
| 1 Galeus canis. | 1 Gymnotus electricus. |

PRESENTED BY H.Y. SEEBOHM, ESQ., F.Z.S., &c.

Birds.

- | | |
|--------------------------------------|--|
| 1 Buteo ferox, ♂. | 1 Turdus gigas. Fraser. |
| 1 Hierofalco candicans. | 1 " iliacus. Linn. |
| 1 Aquila clanga. | 1 " chrysopterus. |
| 1 Spilornis cheela. | 1 Geocichla dauma. Lath. |
| 1 Pandion haliaetus, ♀. | 1 " citrina. |
| 2 Spizaetus ceylonensis, ♀ ♂. | 1 Merula mandarina. |
| 1 Circus rufus, ♂. | 1 " baulbaul, ♂. |
| 2 " pallidus, ♂. | 1 Melanocorypha tartarica, ♂. |
| 1 Falco vespertinus, ♂. | 1 Eulabes javanensis. |
| 1 Elanus melanopterus, ♀. | 1 " intermedia. |
| 2 Accipiter virgatus, ♂. | 1 Sternus sericeus. Gm. |
| 3 " nisus, ♂ ♀. | 1 " cineraceus. Temm. |
| 1 " badius. | 1 " purpurascens, ♀. |
| 2 Astur badius, ♀. | 1 Sturnopastor jalla. Hodgs. |
| 1 Lithofalco chiquera, ♂. | 1 Acridotheres tristis. Linn. |
| 1 Ketupa flavipes. | 1 " cristatellus, ♂. Linn. |
| 1 Bulaca nivicola. | 1 " " |
| 1 Asio otus, ♀. | 1 Temeneuchus malabaricus, ♂. |
| 1 Nyctala tengmalmi, ♂. | 1 Glaucis lanceolatus. |
| 1 Otus brachyotus, ♀. | 3 P. dalhousiae. |
| 1 Surnium aluco. | 2 Cymbirhynchus macrorhynchus, ♂ ♀. Gml. |
| 1 Scelostrix candida. | 1 Lanius phoeniceus. |
| 1 Strix jaiianica, ♂. | 1 " tephronotus, ♀. Vig. |
| 2 Athene cuculoides. | 1 " luciomensis. Linn. |
| 2 " radiata, ♂ ♀. | 1 " schach. Gm. |
| 1 " brama. | 1 " magnirostris. Less. |
| 1 Carine bactriana. | 1 " erythronotus. Vig. |
| 2 Glaucidium brodiei. | 1 Cutia nepaulensis, ♂. Hodg. |
| 1 " whitelyi. | 1 Tephrodornis sylvicola. Jerdon. |
| 1 Ninox scutellatus, ♀. | 1 Megalasma marshallorum. Swinb. |
| 2 Ephialtes griseus, ♂ ♀. | 1 Cyanops asiatica. |
| 2 " lettia. | 1 Magatama juvenis. Gray. |
| 2 Corvus sinensis. Gould, ♀. | 1 " lineata. Vieill. |
| 2 " pastinator. Gould. | 1 " sp. |
| 1 Pyrrhocorax alpinus. | 1 Hanpactes oreskios. Gould. |
| 1 Fregilus himalayanus. Gould. | 2 " kasumba, ♂ ♀. |
| 1 " sp. | 2 " dervauceli, ♂ ♀. |
| 1 Nucifraga hemispila. | 1 " erythrocephalus. Gould. |
| 1 Upupa nigripennis, ♂. | 1 Hierococcyx sparveroides. Vig. |
| 1 " epops, ♂. | 2 Cuculus sp. |
| 2 Eophona melanura, ♂. | 2 " himalayanus. Vig. |
| 1 " personata. | 1 Chrysococcyx hodsoni. Moore. |
| 1 Bombycilla garrula, ♂. | 1 " poliocephalus. |
| 1 Hesperiphona affinis, ♂. | 1 Ceryle guttata, ♂. |
| 1 Mycerobas melanoxanthus, ♂. | 1 Halcyon cromandehanus. |
| 1 Procarduelis nepaulensis, ♀. | 1 " fuscus, ♂. |
| 1 Plectrophanes nivalis, ♀. | 1 Ceyx tridactyla. |
| 1 Carpodacus erythrinus. | 1 Alcedo asiatica, ♂. |
| 1 Parus major. | 1 " bengalensis. Gm. |
| 1 Pyrrhula erythrocephalon, ♂. | 1 Cypselus melba. |
| 2 Hematospiza sipahi, ♂ ♀. | 1 Dendrochelidon klecho. Boil. |
| 1 Mycerobas carmipes. | 1 Hemithraupis flavicola, ♂. |
| 1 Uragus sibericus. Pallas, ♂. | 1 Psalidoproene holomelana. |
| 1 Oragithus pusillus. Pallas, ♂. | 1 Chelidon nipalensis. Hodgs. |
| 1 Fringilla coccintraustes, ♂. | 1 Cotile ruficollis. |
| 2 Emberiza cioides, ♂. | 1 Artamus leucogaster. Val. |
| 1 " aureola, ♂. | 1 " fuscus. |
| 1 Fringilla sinica. Linn. | 2 Chibia hottentota. Linn. |
| 1 Carpodacus erythrinus, ♀. | 2 Buchanga remifer. |
| 1 Parus major, ♀. | 2 Dierurus coerulescens, ♂ ♀. |
| 1 Gracupica nigricollis. Payk. | 1 " macrocerus. Vieill. |
| 2 H. nipalensis. | 1 Cuculus dieruroides. Hodgs. |
| 1 Monticola erythrogaster, ♀. Blyth. | 1 Buchanga leucogenys, ♀. Walden. |
| 1 Turdus torquatus, ♂. Linn. | 1 Urocissa corulea. Gould. |
| 1 " strepitans, ♀. | 1 Cissa venatoria. Blyth. |
| 1 " migratorius, ♂. | 1 Cyanopica cyanea, ♂. Pall. |
| 1 " pallidus. | 1 " Cookii, ♀. Bp. |
| 1 " atrogularis, ♂. | 1 Garrulus Brandtii, ♂. |
| 1 " ignobilis. Sel. | 1 Graeculus macio. |
| 1 " rufiventris. Vieill. | 1 Dendrocitta sinensis. Lath. |

Birds—continued.

- 1 *Picus mandarinus*, ♂. *Gould.*
 1 " *tridactylus*, ♂.
 1 " *japonicus*.
 1 " *hyperythrus*, ♂.
 1 " *macei*, ♂. *Vieill.*
 1 " *synacea-leucopterus*.
 1 " *medius*, ♂.
 1 " *brumea*, ♀.
 1 " *kalensis*. *Sw.*
 1 *Micropterus phaeocephus* (?). *Blyth.*
 1 *Chrysophlegma chlorolophus*, ♀. *Vieill.*
 1 *Brachypterus aurantius*.
 3 *Aethopygia ignea*, ♂ ♂ —
 4 " " ♀ ♀ ♀ ♀.
 3 " *impalensis*, ♂ ♂ ♂.
 3 " " ♀ ♀ ♀.
 1 " *gouldiae*, ♂.
 3 " *sciturala*, ♂ ♂ ♂.
 3 " " ♀ ♀ ♀.
 2 " *miles*, ♂ ♂.
 4 " *asiatica*, ♂ ♂ ♂ ♂.
 1 *Nectarinia* " ♂.
 1 *Cynniris* " ♂.
 1 *Chalcoparia cingalensis*, ♂.
 1 *Ardea cinerea*. *Linn.*
 1 " *goisagi*. *Temm.*
 1 *Ardeola praeinosa*. *Swimb.*
 1 *Ardetta eurhynchos*, ♂. *Swimb.*
 1 *Nycticorax griseus*, ♂.
 1 *Butorides cormanda*, ♂.
 1 *Megalops nigelli*, ♂.
 1 *Phasianus mongolicus*, ♂. *Brant.*
 2 *Euplocamus swinhoei*, ♂ ♀. *Gould.*
 1 *Gallophaps albocristatus*, ♂.
 1 *Ithaginis cruentis*, ♂.
 1 *Phoenicopterus andersonii*, ♀.
 1 *Anas* sp.
 1 *Uria troile*, ♂.
 1 *Alca torda*. *Jur.*
 1 *Hydro sinensis*, ♀.
 1 *Hydro indicus*, ♂.
 1 *Gallinula phoenicea*. *Penn.*
 1 " *chloropus*, ♀. *Linn.*
 1 *Rallus striatus*, ♂. *Linn.*
 1 *Porzana pygmaea*, ♀.
 1 " *baillonii*.
 1 *Francolinus perlatus*, ♂.
 1 *Pterocles arenarius*.
 1 *Arboricola rufugularis*, ♂.
 1 *Ibis nippon*, ♂. *T. & Sch.*
 1 *Numenius major*, ♂. *T. & S.*
 1 *Haematopus osculans*.
 1 *Totanus glottis*, ♀.
 1 *Tringa crassirostris*, ♂. *T. & S.*
 1 *Aegialitis dubius*. *Scop.*
 1 " *cantianus*. *Lath.*
 1 *Charadrius hiaticula*. *Linn.*
 1 *Streptopelia interpres*, ♂.
 1 *Charadrius helveticus*, ♀.
 1 " *pluvialis*, ♂.
 1 *Rhyngæa capensis*. *Vieill.*
 1 *Gallinago stenura*. *Bp.*
 1 " *scelopacina*. *Bp.*
 1 *Rhyngæa sinensis*. *Vieill.*
 1 *Charadrius morinellus*, ♂.
 1 *Glareola pratincola*, ♀. *Linn.*
 1 *Serilophus rubropygius*.
 1 *Aegithina* sp.
 1 *Tichodroma muraria*.
 1 " *chrysereus*, ♀.
 1 *Orthotomus longicauda*. *Gm.*
 1 *Alcedo striatus*.
 1 *Phylloscopus reguloides*, ♂.
 1 " *pulcher*, ♀.
 1 " *affinis*, ♂.
 1 " *tristis*, ♂.
 1 " *humei*, ♀.
 1 " *borealis*. *Bless.*
 1 " *scindianus*, ♀.
 1 *Hypothymis azurea*. *Bodd.*
 1 *Muscicapa aurea*, ♀.
 1 *Muscicapa superciliosa*, ♂. *Blyth.*
 1 *Eumops melanops*, ♂.
 1 *Dromocercus brunneus*. *Sharpe.*
 1 *Pellomeum ruficeps*. *Swains.*
 1 *Ixus sinensis*. *Gm.*
 1 *Copsychus saularis*, ♂. *Linn.*
 1 *Eupornis xantholeuca*. *Hodg.*
 1 *Pycnonotus atricapillus*, ♀. *Hay.*
 2 *Brachypteryx cruralis*, ♀ ♂.
 1 *Accentor strophiat*.
 1 *Accentor alpestris*, ♂.
 1 " *nipalensis*.
 1 *Chamorrornis leucocephala*. *Vig.*
 1 *Heterura sylvana*, ♀. *Hodgs.*
 1 *Yuhina gularis*. *Hodgs.*
 1 *Laniellus vittatus*, ♂.
 1 *Siphia strophata*.
 1 *Stachyris ruficeps*. *Blyth.*
 1 *Cryptolopha castaneiceps*. *Hodgs.*
 1 " *burkii*, ♀.
 1 *Abrornis schisticeps*, ♀.
 1 *Reguloides macutipinnis*.
 1 *Henicurus fuliginosus*, ♂.
 1 *Sitta uralensis*, ♂.
 1 " *synica*.
 1 " *cruperi*.
 1 " *himalayensis*.
 1 " *castaneiventris*.
 1 *Leiothrix argentarius*. *Hodgs.*
 1 " *lutens*, ♂. *Scopoli.*
 1 *Cyanecula suecica*, ♀.
 1 *D.* *frontalis*.
 2 *I.* *rufulata*, ♂ ♀.
 2 *E.* *albicilla*, ♂ ♀.
 1 *C.* *kantochat*, ♂.
 1 *Aedon leucophrys*, ♀.
 1 *Lus ciniola gracilirostris*, ♀. *Hart.*
 1 *Myzornis pyrrhona*, ♀. *Hodgs.*
 2 *Ruticilla frontalis*, ♂ ♀. *Vig.*
 2 " *rufiventris*, ♂. *Vieill.*
 2 " *fuliginosa*, ♂ ♀.
 1 *Saxicola isabellina*. *Rupp.*
 1 " *stapazina*, ♂. *Linn.*
 1 " *rubicola*, ♂.
 1 " *picata*, ♂.
 1 " *finschii*. *Hart.*
 1 " *deserti (astrogularis)*, ♂.
 1 *Sibia capistrata*, ♂.
 1 " *picoides*.
 2 *Cittacina macrura*, ♂. *Gm.*
 2 *N.* *grandis*, ♂ ♀.
 1 *Pycnopygia caudata*.
 1 *Tarsiger indicus*. *Vieill.*
 2 " *hodgsonii*. *Moore.*
 2 *N.* *macgregoriae*, ♂ ♀.
 2 *Niltava sundara*, ♂ ♀. *Hodgs.*
 2 *Pericrocotus brevirostris*, ♂ ♀.
 1 " *speciosus*, ♂.
 1 *Parus monticolus*.
 1 " *longicaudatus*, ♂.
 1 " *spilnotus*.
 1 " *baikalsensis*.
 1 *Regulus albo-superalians*.
 1 *Aegithyia erythrocephala*, ♂.
 1 *Cettia canturiana*. *Swimb.*
 1 *Acrocephalus agricola*.
 1 *Acrocephalus dumetorum*. *Blyth.*
 1 *Franklinia (brichanni?)*.
 1 *Cisticola cursiveans*, ♂. *Frank.*
 1 *Suya criniger*. *Hodgs.*
 1 *Prinia hodgsonii*, ♂.
 1 *Hypolais rama*, ♂.
 1 *Drymæa extensicauda*, ♂. *Sw.*
 1 *D.* *longicaudata*, ♂.
 1 *Gramatoptila striata*.
 1 *Trocholafteron affine*.
 1 " *lineatum*, ♂.
 1 *H.* *whitleyi*.
 1 *Cinclus asiaticus*, ♀.
 1 *Temenachus sinensis*. *Gml.*
 1 " *puella*.
 1 *Twedus phaeopygia*. *Cal.*
 1 *Myiophonus horsfieldii*, ♀. *Vig.*
 1 *Timalius maclellandi*, ♂.
 1 *Phyllornis hardwickii*, ♂. *Jard and Sel.*
 1 *Pomatorhinus musicus*. *Sw.*
 1 " *superciliaris*.
 1 *Monticola cinclorhynchos*, ♂. *Blyth.*
 2 " *pandoo*, ♀. *Sykes.*
 1 *O.* *erythrogastra*, ♂.
 2 *Geocichla coelestis*, ♂ ♀.
 1 *Petrocincla erythrogastra*, ♀.
 1 " *cinclorhynchos*, ♀.
 1 *Yunx torquilla*. *Linn.*
 1 *Garulax leucolaphus*, ♀.
 1 *Garulax moiringer*.
 1 *Garrulus infaustus*, ♂.
 1 *Leucodipterum tairanum*. *Sw.*
 2 *Oriolus melanoleucus*. *L.*
 1 *P.* *impalensis*.
 1 *Emberiza aureola*, ♂.

RECEIVED FROM MR. CROWLEY (*Exchange.*)*Lepidoptera.*

12 Ornithoptera brookiana, ♂.

Birds' Eggs.

- | | |
|--------------------------|----------------------------|
| 1 Vultur monachus. | 1 Tetraogallus. |
| 1 Gyps fulvus. | 4 Tetrao tetrax. |
| 4 Neophron percnopterus. | 1 Phaeton flavirostris. |
| 4 Larus argentatus. | 3 Numenius arquata. |
| 4 Sterna cantiaca. | 2 " phaeopus. |
| 4 Larus ridibundus. | 3 Himantopus melanopterus. |

RECEIVED FROM SCIENCE AND ART MUSEUM, EDINBURGH (*Exchange.*)*Birds.*

- | | |
|--|--|
| 2 Haliastur leucosternus. <i>Gould.</i> | 1 Oriolus striatus. <i>Q. & G.</i> |
| 1 Astur henricogrammus. <i>Gray.</i> | 1 Macropygia amboinensis. <i>L.</i> |
| 2 Tinnunculus moluccensis. <i>Schl.</i> | 2 Motacilla viridis. <i>Scop.</i> |
| 1 Athene hypogramma. <i>G. R. Gray.</i> | 3 Paradisea papuana, ♂ ♂ ♀. |
| 2 Scops leucospila. <i>G. R. Gray.</i> | 1 " sanguinea. <i>Shaw.</i> |
| 1 Dendrochelidon mystacea. <i>Lep.</i> | 1 Epimachus magnificus. <i>V.</i> |
| 2 Artamus papuensis. <i>Tem.</i> | 2 Manucodia viridis. <i>L.</i> |
| 1 Eurystomus pacificus. <i>Lath.</i> | 1 Pitta maxima. <i>Forst.</i> |
| 1 Cracticus cassicus. <i>Bodd.</i> | 4 Cynnis. |
| 1 Corvus orru. <i>Mull.</i> | 1 Megapodius freycineti. <i>Q. & G.</i> |
| 1 Manucodia pyrrhopterus. <i>Tem.</i> | 1 Centropus goliath. <i>Forst.</i> |
| 1 Dicurus carbonarius. <i>Mull.</i> | 1 Psittacula desmaresti. <i>Garn.</i> |
| 2 Calornis. | 1 Trichoglossus muschenbrockii. |
| 2 Pachycephala mentalis. <i>Wal.</i> | 2 Platycercus dorsalis. <i>Q. & G.</i> |
| 2 Campephaga aurca. <i>Tem.</i> | 1 Chamosyna papuensis. <i>Gm.</i> |
| 4 Halcyon diops. <i>Tem.</i> | 1 Trichoglossus cyanogrammus. <i>Wagl.</i> |
| 1 " albicilla. <i>Cuv.</i> | 2 Eos cochinchinensis. <i>Lath.</i> |
| 1 Tanysiptera nympha. <i>G. R. Gray.</i> | 1 Psittacus cyanicollis. <i>Mul. & Schl.</i> |
| 2 Ceyx lepida. <i>Tem.</i> | 1 Eos rubra. <i>Gm.</i> |
| 4 Semioptera wallacei, ♀ ♂ ♂. <i>G. R. Gray.</i> | 3 Eclectus sp. |

RECEIVED FROM AMSTERDAM ZOOLOGICAL GARDENS.

Birds' Eggs.

- | | |
|----------------------------------|-----------------------|
| 1 Aix sponsa. | 1 Grus leucauchin. |
| 1 Ardea cinerea. | 2 " pavonia. |
| 1 " goliath. | 1 " paradisea. |
| 2 Crax elector, C. metus. | 2 " regulorum. |
| 1 " rubra. | 2 " montignesia. |
| 1 Rhea americana. | 1 " carunculata. |
| 1 Vultur auricularis. | 1 Pelecanus crispus. |
| 1 Condor, Sarcorhamphus gryphus. | 2 Anthropoides virgo. |

RECEIVED FROM DR. JUDD, SCIENCE AND ART MUSEUM, S.K.

Fossils.

Specimen of Eozoon canadense.

RECEIVED FROM STRAITS SETTLEMENTS COMMISSION (*Exchange.*)

(Hon. Smith.)

Fishes.

- | | |
|----------------------------|--------------------------|
| 1 Labrichthys sp. | 1 Holacanthus sp. |
| 3 Monacanthus sp. | 1 Caranx. |
| 1 Ostracion sp. | 1 Apogon monochrous. |
| 1 Triacanthus sp. | 1 Gobius. |
| 1 Holacanthus sp. | 2 Hemirhamphus sp. |
| 4 Caranx sp. | 1 Carcharias. |
| 2 Hemirhamphus sp. | 1 Chiloseyllum indicum. |
| 2 Scyllium sp. | 1 Stromateus, juv. |
| 2 Psettus sp. | 1 " ad. |
| 1 Therapon sp. | 2 Mesoprion johnii. |
| 1 Mugil sp. | 1 Mugil. |
| 1 Polynemus sp. | 1 Monacanthus chinensis. |
| 1 Serranus sp. | 1 Polynemus sexfilis. |
| 1 Tetradon sp. | 1 Synagris. |
| 2 Platax vespertilio. | 1 Apogon rhodopterus. |
| 1 Lates sp. | 1 Teuthis virgata. |
| 1 Equula sp. | 1 Serranus. |
| 1 Caranx. | 2 Sciaena. |
| 1 Sphyræna obtusata. | 1 Toxotes jaculator. |
| 1 Dascyllus sp. | 1 Charops. |
| 1 Chela bacaila. | 1 " sp. |
| 1 Ophiocephalus lucius. | 1 Chatoessus chacunda. |
| 1 Mugil. | 1 Tetradon lunaris. |
| 1 Trygon walga. | 1 Engraulis purpuræ. |
| 1 Eleotris ophiocephalus. | 1 Pellona motius. |
| 1 Drepane punctata. | 1 Scolopsis auratus. |
| 1 Mesoprion sp. | 1 Balistes stellatus. |
| 1 Caranx. | 1 Polynemus tetractylus. |
| 1 Ambassis commersonii. | 1 Pomacentrus. |
| 1 Gerres poeti. | 1 Chelmo rostratus. |
| 1 Cheilinus. | 1 Teuthis. |
| 2 Scatophagus argus. | 1 Mesoprion. |
| 1 Monacanthus chinensis. | 1 Equula edentula. |
| 1 Ostracion nasus. | 1 Chorinemus orientalis. |
| 1 Chatoessus chacunda. | 1 Osteogeniosus. |
| 1 Lates calcarifer. | 1 Charops. |
| 1 Serranus salmoides. | 1 Sphyræna. |
| 1 Triacanthus strigilifer. | 1 Belone. |

Fishes—continued.

1 Mugil.	2 Plotosus canius.
1 Cheilinus.	1 Muraenesox cinereus.
1 Caranx.	2 Trichiurus.
1 Glyphidodon coelestinus.	1 Pristigaster.
1 Platycephalus.	1 Engraulis.
3 Engraulis commersonianus.	2 Dussumiera acuta.
1 Anabas scandens.	1 Sillago sihama.
1 Cynoglossus elongatus.	2 Caranx rottleri.
1 Pristipoma hasta.	1 " djeddaba.
1 Equula.	1 Belone.
1 Caranx.	1 Chirocentrus dorab.
1 Mugil.	1 Anguilla sidat.
2 Apogoniethys gracilis.	1 Carcharias.
1 Barbus.	1 Clarias melanoderma.

Mollusca.

3 Soligo sp.	2 Holothurea maxima.
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Crustacea.

10 Teneus sp.	2 Palinurus.
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Collection of Crabs.

9 species.	16 specimens.
1 King crab, <i>Limulus</i> sp.	

FROM THE NEWFOUNDLAND COMMISSION. (*Exchange.*)*Fishes.*

52 Ammodytes americanus.	1 Anguilla bostoniensis.
4 Gadus aeglefinus.	5 Clupea harengus.
12 " morhua.	2 Cottus groenlandicus.
1 Phycis americanus.	1 Ctenolabrus burgall.
18 Salmo fontinalis.	8 Gasterosteus biculeatus.
4 " sp.	3 Scomber scomber.
9 Mallotus villosus.	1 Acanthias vulgaris.
6 Osmerus viridescens.	4 Zoarces anguillaris.
24 Clupea harengus, from Labrador.	

Canadian Fishes.

1 Salmo salar.	5 Pomotis auritus.
8 " fontinalis.	3 Corvina oscula.
2 " sp.	2 Perca fluviatilis.
1 Coregonus sp.	1 Catostomus aureolus.
5 Labrax lineatus.	1 Lucioperca americana.
1 Esox lucius.	1 Sargus.
1 Serranus.	1 Amiurus catus.
2 Clupea.	

— PEAL, ESQ. (*Exchange.*)*Bird.*

1 Heron, <i>Nycticorax</i> sp. (<i>Bahamas</i>).
Collection of named British Bryozoa.

Zoophytes.

5 Gorgonias sp.	1 Meandrina, large specimen.
1 Madrepora muricata, large specimen.	

*Echini.*2 *Neoma grandis*.

Collection of Fossil Echini, from the Chalk, England.

PUBLIC MUSEUM, LIVERPOOL (THOS. MOORE, ESQ.) (*Exchange.*)

Scutes of Labarinthodon.

CHINA COMMISSION (MR. NIEUMANN.)

Fish.

1 Shark, <i>Heterodontus zebra</i> .

MR. GROOM-NAPIER.

Minerals, Fossils, &c.

1 Fossil fish.	1 Model of the "Hargreaves' nugget."
1 Lapis lazuli.	3 Models of diamonds.
1 Rock salt.	4 Crystals of topaz.

DR. DAY'S PRIVATE COLLECTION, AS EXHIBITED AT THE INTERNATIONAL FISHERIES EXHIBITION, LONDON, 1883.
Specimens of Fish from India and the Indian Ocean purchased, from Deputy Surgeon-General Francis Day, F.L.S., F.Z.S., including duplicates of his Type species and Co-types from Dr. Bleeker's Collection.
 "Co-type" signifies that the specimens were admitted by Dr. Bleeker as identical with his types. "Type," that these are certified to by Dr. Day being part of his original collection, and named by him.

- Lates calcarifer*. Bloch. Mangalore.
Cromileptes altivelis. Cuv. and Val. Malay Archipelago.
SERRANUS STOLICZKÆ. Day. Aden. (Type.)
 " *COROMANDELICUS*. Day. Madras. (Type.)
Serranus leucogrammicus. Cuv. and Val. Malay Archipelago.
 " *maculatus*. Bloch. Madras.
 " *tumilabris*. Cuv. and Val. Karachi.
 " *diacanthus*. Cuv. and Val. Bombay.
 " *undulosus*. Cuv. and Val. Madras.
 " *sex fasciatus*. F. Hass. Malay Archipelago.
 " *malabaricus*. Bl. Schn. Madras.
 " *gilberti*. Richards. Malay Archipelago.
SERRANUS PARDALIS. Bleeker. Batavia. (Co-type.)
Serranus morhua. Cuv. and Val. Madras.
 " *angularis*. Cuv. and Val. Celebes.
 " *nebulosus*. Cuv. and Val. Batavia.
 " *boenack*. Bloch. Madras.
 " *miniatus*. Forsk. Malabar.
 " *sonnerati*. Cuv. and Val. Madras.
SERRANUS HOEVENII. Bleeker. Malay Archipelago. (Co-type.)
Serranus crepao. Malay Archipelago.
 " *areolatus*. Konachi.
 " *ongus*. Bleeker. Aden.
Variola louti. Forsk. Malay Archipelago.
Grammistes orientalis. Bl. Schn. Malay Archipelago.
LUTIANUS DODECACANTHUS. Bleeker. Madras. (Co-type.)
Lutianus rivulatus. Cuv. and Val. Andamans.
 " *argentimaculatus*. Forsk. Madras.
 " *quinguelineatus*. Bloch. Andamans.
 " *fulviflamma*. Forsk. Akyab and Madras.
 " *russellii*. Bleeker. Akyab.
 " *johnii*. Bloch. Madras.
 " *macolor*. Cuv. and Val. Malay Archipel.
PRACANTHUS HOLOCENTRUM. Bleeker. Madras. (Co-type.)
Ambassis ranga. H.B. India.
 " *commersonii*. Cuv. and Val. Madras.
Apogon MULTIDENTATUS. Bleeker. Malay Archipel. and Karachi. (Co-type.)
Apogon fasciatus. White. Malay Archipel.
 " *nigripinnis*. Cuv. and Val. Madras.
 " *bifasciatus*. Rüppel. Madras.
 " *annularis*. Russell. Amboina.
Apogon ELLIOTTI. Day. (Type.) (= *A. ARAFURE*. Günther, "Challenger"). Madras.
Dules rupestris. Lacép. Malay Archipel.
Therapon puta. Cuv. and Val. Madras.
 " *jarbua*. Forsk. Madras and Calcutta.
 " *theraps*. Cuv. and Val. Madras.
PRISTIPOMA OLIVACEUM. Day. Sind. (Type.)
Pristipoma maculatum. Bloch. Madras.
 " *operculare*. Playfair. Karachi.
Diagramma lineatum. Linn. Malay Archipel.
 " *orientale*. Bloch. Malay Archipel.
 " *cinctum*. Tem. and Schleg. Sind.
 " *pietum*. Thunb. Series 1½, 2½, 3½, 5 inches, from Bleeker's Collection; 4½ and 7 in Madras.
Scolopsis margaritifera. Cuv. and Val. Malay Archipel.
 " *bilineatus*. Bloch. Malay Archipel. and Andamans.
Scolopsis ghanam. Forsk. Andamans.
 " *monogramma*. Cuv. and Val. Batavia. (Bleeker's Coll.)
 " *cancellatus*. Cuv. and Val. Malay Archipelago.
 " *ciliatus*. Lacép. Amboina and Andamans.
Synagris tolu. Cuv. and Val. Madras.
SYNAGRIS NOTATUS. Day. Andamans. (Type.)
Cæcio erythrogaster. Cuv. and Val. Batavia.
Datnioides polota. H.B. Calcutta.
Gerres filamentosus. Cuv. and Val. Madras.
Chaetodon baronessa. Cuv. and Val. Amboina.
 " *meyeri*. Bl. Schn. Malay Archipel.
CHAETODON OLIGACANTHUS. Bleeker. Batavia. (Type.)
Chaetodon vagabundus. Linn. Malay Archipel.
 " *punctato-fasciatus*. Cuv. and Val. Malay Archipel.
CHAETODON RAFFLESSI. Bleeker. Malay Archipel. (Co-type.)
Chaetodon kleinii. Bloch. Malay Archipel.
 " *citrinellus*. Cuv. and Val. Amboina.
 " *lunula*. Lac. Amboina.
 " *virescens*. Cuv. and Val. Amboina. (Bleeker's Coll.)
 " *vittatus*. Bl. Schn. Malay Archipel.
 " *unimaculatus*. Bl. Amboina. (Bleeker's Coll.)
 " *collaris*. Bl. Malay Archipel.
 " *melanotus*. Bl. Schn. Malay Archipel.
 " *octofasciatus*. Gm. Linn. Solomon Islands.
Chelmo longirostris. Brouss. Malay Archipel.
Heniochus chrysostomus. Parkins. Malay Archipel.
- Zanclus cornutus*. Linn. Ternate.
Holacanthus niebariensis. Bl. Schn. Malay Archipel.
HOLACANTHUS VROLIKII. Bleeker. Amboina. (Co-type.)
Holacanthus annularis. Bl. Malay Archipel.
 " *lamarekii*. Lacép. Malay Archipel.
 " *diacanthus*. Bl. Schn. Solomon Islands.
 " *mesoleucus*. Bloch. Malay Archipel.
 " *semicirculatus*. Cuv. and Val. Malay Archipel.
Scatophagus argus. Gm. Linn. Madras.
Drepane punctata. Gm. Linn. Madras.
Upeneoides sulphureus. Cuv. and Val. Madras.
BADIS BUCHANANI. Bleeker. Bowany and Gowhaty. (Co-type.)
Pristolepis marginatus. Jerdon. Madras.
CRENIDENS INDICUS. Day. (= *C. MACRACANTHUS*, Günther). Sind. (Type.)
Lethrinus opercularis. Cuv. and Val. Batavia. (Bleeker's Coll.)
Pagrus spinifer. Forsk. Madras.
CHRYSOPHRYS DATNIA. H.B. Calcutta.
 " *CUVIERI*. Day. Madras. (Type.)
Cirrhitichthys forsteri. Bl. Schn. Malay Archipelago.
Cirrhitichthys marmoratus. Lacép. Madras.
CIRRHITICHTHYS GRAPHIDOPTERUS. Bleeker. Malay Archipel. (Co-type.)
Sebastes guamensis. Quoy and Gaim. Amboina. (Bleeker as *S. polylepis*.)
SCORPENA HAPODACTYLUS. Bleeker. (Type from Bleeker's Coll.)
Scorpena cirrhosa. Amboina.
Pterois russellii. Bennett. Madras.
 " *zebra*. Cuv. and Val. Malay Archipel.
 " *volitans*. Linn. Madras.
Apistus barbatus. Cuv. and Val. Malay Archipel.
Synanceia horridum. Linn. Malay Archipel.
Synanceia verrucosa. Bl. Schn. Malay Archipel.
PSEUDOSYNANCEIA MELANOSTIGMA. Day. Karachi. (Type.)
Teuthis java. Linn. Madras.
 " *virgata*. Cuv. and Val. Malay Archipel.
 " *corallina*. Cuv. and Val. Malay Archipel.
 " *dorsalis*. Cuv. and Val. Malay Archipel.
 " *oramin*. Bl. Schn. Madras.
Holocentrum diadema. Lacép. Malay Archipel.
Holocentrum cornutum. Bleeker. Malay Archipel. (Co-type.)
Holocentrum sammara. Forsk. Malay Archipel.
Kurtus indicus. Bloch. (Male 5 in., Female, 4 in.) Malay Archipel.
Polynemus sextarius. Bl. Schn. Sind.
 " *heptadactylus*. Andamans Island.
 " *indicus*. Shaw. Madras.
 " *tetradactylus*. Shaw. Calcutta.
Umbrina russellii. Cuv. and Val. Bombay.
Sciæna miles. Lacép. Malabar.
 " *vogleri*. Bleeker. Madras.
 " *sina*. Cuv. and Val. Bombay.
 " *coitor*. H. B. Burma.
 " *albida*. Cuv. and Val. Canara.
 " *diacanthus*. Lacép. (var. *maculatus*). Madras.
 " *maculata*. Bl. Schn. Madras.
 " *belengeri*. Cuv. and Val. Bombay.
 " *semilueta*. Cuv. and Val. Bombay.
SCIÆNA GLAUCUS. Day. Malabar. (Type.)
Sciæna osseus. Day. Malabar.
Sciænoides pama. H.B. Calcutta.
SCIÆNOIDES BRUNNEUS. Day. Bombay. (Type.)
Otolithus argenteus. Cuv. and Val. Madras.
Trichiurus haumela. Forsk. Madras and Bombay.
Acanthurus lineatus. Gm. Linn. Andamans.
 " *matoides*. Cuv. and Val. Andamans.
 " *hepatus*. Linn. Malay Archipel.
 " *glaucopterus*. Amboina.
Caranx rotterli. Bloch. Madras.
 " *kurra*. Cuv. and Val. Madras.
 " *carangus*. Bloch. Madras.
 " *crumenophthalmus*. Bloch. Madras and Andamans.
 " *affinis*. Rüpp. Madras.
 " *calla*. Cuv. and Val. Madras.
 " *ire*. Cuv. and Val. Malay Archipelago.
CARANX PRÆSTIUS. (Co-type from Bleeker's Coll.)
Caranx atropus. Bl. Schn. Madras.
 " *armatus*. Forsk. Malabar.
 " *gallus*. Linn. Madras.
 " *leptolepis*. Cuv. and Val. Madras.
CARANX NIGRIPINNIS. Day. Madras. (Type.)
Caranx speciosus. Forsk. Madras.
CARANX MALAM. Bleeker. Malay Archipel. (Co-type, Bleeker's Coll.)

- Chorinemus sancti-Petri*. *Cuv. and Val.* Madras.
 " *moadetta*. *Cuv. and Val.* Madras.
 " *lysan*. *Forsk.* Madras and Calcutta.
Trachynotus ovatus. *Linn.* Madras.
Platax teira. *Forsk.* Andamans.
Psenes indicus. *Day*, 1870. Madras. (= *P. javanicus*,
pt. Günther, 1876, not *Cuv. and Val.*)
Equula splendens. *Cuv.* Madras.
 " *lineolata*. *Cuv. and Val.* Madras.
 " *insidiatrix*. *Bloch.* Madras and Sind.
 " *ruconius*. *H.B.* Madras.
Gazza aequuleformis. *Rüpp.* Madras.
Laetarius delicatulus. *Cuv. and Val.* Malabar.
Stromateus sinensis. *Euphrasin.* Bombay.
 " *niger*. *Bloch.* Madras.
Seomber microlepidotus. *Rüpp.* Madras and Andamans.
SCOMBER LOO. *Cuv. and Val.* Malay Archipel. (Bleeker's
Coll. Co-type)
Cybius kuhlii. *Cuv. and Val.* Sind.
 " *guttatum*. *Bl. Schn.* Madras.
 " *commersonii*. *Lacép.* Madras.
Elacate nigra. *Bloch.* Madras.
Echeneis naucrates. *Linn.* Andamans.
Uranoscopus guttatus. *Cuv. and Val.* Madras.
Ichthyoscopus inermis. *Cuv. and Val.* Malabar.
Percis cylindrica. *Bl.* Amboina.
 " *tetracanthus*. *Lacép.* Amboina.
 " *hexophthalmus*. *Cuv. and Val.* Amboina.
Sillago panijus. *H.B.* (= *S. domina*, *Cuv. and Val.*) Calcutta.
 " *sihama*. *Forsk.* Madras and Akyab.
Batrachus grunniens. *Bloch.* Malabar, Bombay.
Antennarius hispidus. *Bl. Schn.* Madras.
Platycephalus scaber. *Linn.* Madras, Port Blair.
PLATYCEPHALUS MICRACANTHUS. *Bleeker.* Madras.
 (Co-type.)
Platycephalus insidiator. *Forsk.* Calcutta.
 " *punctatus*. *Cuv. and Val.* Sind and Malabar.
Dactylopterus orientalis. *Cuv. and Val.* Malay Archipel.
Pegasus natans. Malay Archipel.
Gobius bynoensis. *Richards.* Malay Archipel.
 " *brevirostris*. *Günther.* Sind.
Gobius GRISEUS. *Day.* Madras. (Type.)
 " *POLYNEMA*. *Bleeker.* Bombay. (Co-type.)
Gobius viridipunctatus. *Cuv. and Val.* Bombay.
Gobius CHRYSOSTIGMA. *Bleeker.* Malay Archipel. (One
 of the types.)
 " *ocellatus*. *Day.* Bombay. (Type.)
 " *MASONI*. *Day.* Bombay. (Type.)
 " *CYANOMOS*. *Bleeker.* Bombay. (Co-type.)
Gobius criniger. *Cuv. and Val.* Madras.
Gobius PUNTANG. *Bleeker.* Andamans. (Co-type.)
Gobius biocellatus. *Cuv. and Val.* Madras.
Gobius MADRASPATENSIS. *Day.* Madras. (Type.)
 " *NEILLII*. *Day.* Madras. (Type.)
 " *MELANOSTICTA*. *Day.* Madras. (Type.)
 " *CRISTATUS*. *Day.* Bombay. (Type.)
Gobius tentacularis. *Cuv. and Val.* Bombay.
 " *acutipinnis*. *Cuv. and Val.* Madras.
Gobius STRIATUS. *Day.* Malabar. (Type.)
 " *PERSONATUS*. *Bleeker.* Orissa. (Co-type.)
Gobius ornatus. *Rüpp.* Nicobars.
 " *albopunctatus*. *Cuv. and Val.* Andamans.
 " *giuris*. *H.B.* Madras.
Gobius PLANICEPS. *Day.* Madras. (Type.)
Gobius sadanundio. *H.B.* Rangoon.
Gobioidon ERYTHROSPILUS. *Bleeker.* Andamans. (Co-type.)
Gobioidon citrinus. *Rüpp.* Nicobars.
SICYDIUM GRISEUM. *Day.* Canara. (Type.)
Apocryptes rictuosus. *Cuv. and Val.* Madras.
 " *blekeri*. *Day.* Madras.
 " *lanceolatus*. *Bl. Schn.* Madras.
 " *bato*. *H.B.* Calcutta.
Apocryptichthys cantoris. *Day.* Madras.
Periophthalmus koelreuteri. *Bl. Schn.* Sind, Burma, Canara.
 " *schlosseri*. *Pall.* Burma.
Boleophthalmus tenuis. *Day.* Sind.
 " *dussumieri*. *Cuv. and Val.* Sind.
 " *dentatus*. *Cuv. and Val.* Sind.
 " *glaucus*. *Day.* Andamans.
 " *boddaerti*. *Pall.* Bombay, Burma.
Bostriechthys sinensis. *Lacép.* Andamans.
Eleotris porocephalus. *Cuv. and Val.* Andamans.
ELEOTRIS MACRODON. *Bleeker.* Akyab. (Co-type.)
Eleotris ophioccephalus. *Cuv. and Val.* Andamans.
ELEOTRIS APOROS. *Bleeker.* Malay Archipel. (One of the
 types from Bleeker's Coll.)
Eleotris fusca. *Bl. Schn.* Calcutta.
ELEOTRIS CANARENSIS. *Day.* Canara. Type.
Eleotris cantoris. *Blyth.* Andamans.
 " *butis*. *H.B.* Calcutta.
 " *amboinensis*. *Bleeker.* Andamans.
Gobioides caeculus. *Bl. Schn.* Andamans.
Gobioides BUCHANANI. *Day.* Calcutta. Type.
Gobioides rubicundus. *H.B.* Madras.
 " *tenuis*. *Day.* Sind.
- Trypauchen vagina*. *Bl. Schn.* Calcutta.
Blennius steindachneri. *Day.* Sind.
Petroscirtes lienardi. *Day.* Sind.
Salarias tridactylus. *Bl. Schn.* Sind.
 " *fuscus*. *Rüpp.* Sind.
 " *oryx*. *Rüpp.* Red Sea.
 " *andersonii*. *Day.* Ceylon.
 " *quadricornis*. *Cuv. and Val.* Andamans.
 " *lineatus*. *Cuv. and Val.* Andamans.
 " *andamanensis*. *Day.* Andamans.
 " *dussumieri*. *Cuv. and Val.* Andamans.
 " *periophthalmus*. *Cuv. and Val.* Andamans.
 " *unicolor*. *Rüpp.* Sind.
 " *alboguttatus*. *Cuv. and Val.* Andamans.
ANDAMIA EXPANSA. *Blyth.* Andamans. (Type of *Salarias*
heteropterus, *Bleeker.*) Amboina.
Rhynchobdella aculeata. *Bl.* Sind.
Mastacembelus unicolor. *Cuv. and Val.* Mandalay.
 " *zebrinus*. *Blyth.* Burma.
 " *pancalus*. *H.B.* Calcutta.
 " *armatus*. *Lacép.* Calc., Sind.
MASTACEMBELUS GUENTHERI. *Day.* Malabar. (Type.)
Sphyræna jello. *Cuv. and Val.* Madras.
 " *forsteri*. *Cuv. and Val.* Malay Archipel.
 " *obtusata*. *Cuv. and Val.* Madras.
ATHERINA MELANOSTIGMA. *Day.* Madras. (Type.)
Mugil speigleri. *Bleeker.* Bombay.
 " *cunnesius*. *Cuv. and Val.* Bombay.
 " *carinatus*. *Cuv. and Val.* Bombay.
 " *planiceps*. *Cuv. and Val.* Calcutta.
 " *parsia*. *H.B.* Calcutta.
MUGIL CANTORIS. *Bleeker.* Calcutta. (Type.)
Mugil belanak. *Bleeker.* Bombay.
 " *poecilus*. *Day.* Bombay.
 " *kelaartii*. *Günther.* Andamans.
 " *jerdoni*. *Day.* Bombay.
 " *dussumieri*. *Cuv. and Val.* Madras.
 " *oeur*. *Forsk.* Bombay.
 " *corsula*. *H.B.* Calcutta.
 " *hamiltonii*. *Day.* Burma.
 " *cascasia*. *H.B.* Delhi.
 " *cœruleo-maculatus*. *Lacép.* Bombay.
MUGIL BORNEENSIS. *Bleeker.* Bombay. (Co-type.)
Mugil troschellii. *Bleeker.* Madras.
 " *oligolepis*. *Bleeker.* Calcutta.
 " *waigiensis*. *Quoy and Gaim.* Madras.
Amphisila strigata. Malay Archipel.
 " *scutata*. Malay Archipel.
Ophiocephalus marulius. *H.B.* Suddya, Assam.
 " *leucopunctatus*. *Sykes.* Canara.
 " *barca*. *H.B.* Calcutta.
 " *micropeltes*. *Cuv. and Val.* (series). Canara.
 " *striatus*. *Bloch.* Calcutta.
 " *stewartii*. *Playfair.* Assam.
 " *gachua*. *H.B.* Madras.
 " *punctatus*. *Bloch.* Madras.
 " *affinis*. Assam.
 " *lucius*. Malay Archipel.
Anabas scandens. *Dald.* Calcutta.
Ophromenus trichopterus. *Pallas.* Malay Archipel.
TRICHOGASTER LABIOSUS. *Day.* Buma. (Type.)
 " *FARVIFINNIS Sauvage*. Siam. (Type, Paris
 Museum).
Betta pugnax. Pinang.
Amphiprion ephippium. *Bl.* Nicobars.
AMPHIPRION SEBE. *Bleeker.* Malay Archipel. (Co-type).
Premnas biaculeatus. *Bl.* Malay Archipel.
Tetradrachmum aruanum. *Linn.* Andamans.
 " *polycanthus*. Malay Archipel.
Pomacentrus trimaculatus. *Cuv. and Val.* Malay Archipel.
Glyphidodon zonatus. *Cuv. and Val.* Malay Archipel.
 " *septemfasciatus*. *Cuv. and Val.* Bombay.
 " *bengalensis*. *C. et V.* Amboina.
 " *dickii*. *Lienard.* Malay Archipel.
 " *trimaculatus*. *Rüpp.* Malay Archipel.
 " *leucogaster*. *Bleeker.* Malay Archipel.
 " *sordidus*. Batavia.
Chærops anchorago. *Bloch.* Nicobars.
Cossyphus mesothorax. *Bl. Schn.* Malay Archipel.
Cheilinus chlorurus. *Bloch.* Andamans.
 " *trilobatus*. *Lacép.* Andamans.
 " *fasciatus*. *Bloch.* Batavia.
 " *oxycephalus*. Malay Archipel.
Anampses meleagris. *Cuv. and Val.* Amboina.
Hemigymnus melapturus. *Bl.* Andamans.
Stethojulis strigiventer. *Bennett.* Malay Archipel.
PLATYGLOSSUS NOTORSIS. *Bleeker.* Malay Archipel.
 (Co-type).
 " *SCHWARTZII*. *Bleeker.* Malay Archipel.
 (Co-type).
 " *HOEVENII*. *Bleeker.* Batavia. (Co-type).
 " *HARTZFELDII*. *Bleeker.* Amboina. (Co-type).
PlatyGLOSSUS hortulanus. *Lacép.* Malay Archipel.
 " *scapularis*. *Bennett.* Andamans.
 " *pocilus*. *Richards.* Malay Archipel.

- Novacula pentadactyla*. Linn. Malay Archipel.
Julis trilobatus. Lacép. Amboina.
JULIS JANSENI. Bleeker. Amboina. (Co-type).
Cheilio inermis. Forsk. Malay Archipelago.
Coris greenoughii. Bennett. Malay Archipelago.
PSEUDOSCARUS CHRYSOPOMA. Bleeker. Batavia. (Co-type).
Pseudoscarus seruginosus. Cuv. and Val. Andamans.
Ectoplus canarensis. Day. Canara.
" *maculatus*. Bloch. Madras.
" *suratensis*. Bloch. Madras.
Bregmaceros atripinnis. Tickell. Bombay.
Psettodes erumei. Bl. Schn. Madras.
Pseudorhombus arsius. H.B. Madras.
" *trioellatus*. Bl. Schn. Madras.
Platophrys pantherinus. Rüpp. Andamans.
SOLEA HETERORHINA. Bleeker. Adamans. (Co-type).
" *ELONGATA*. Day. Madras. (Type).
Solea ovata. Richardson. Madras.
Achirus pavoninus. Lacép. Amboina.
Synaptura commersoniana. Lacép. Sind.
" *albomaculata*. Kaup. Madras.
" *cornuta*. Cuv. Madras.
Plagusia bilineata. Bl. Madras.
Cynoglossus lingua. H.B. Calcutta.
CYNOGLOSSUS OLIGOLEPIS. Bleeker. Madras. (Co-type).
Cynoglossus macrolepidotus. Bleeker. Madras.
CYNOGLOSSUS DISPAR. Day. Sind. (Type).
" *QUADRILINEATUS*. Bleeker. Madras. (Co-type).
Cynoglossus brachyrhynchus. Bleeker. Moulmein.
" *bengalensis*. Bleeker. Calcutta.
" *hamiltonii*. Günther. Madras.
" *puncticeps*. Richards. Canara.
" *brevis*. Günther. Sind.
PSEUDOBAGRUS AURANTIACUS. Japan. (One of Bleeker's types).
MACRONES CHRYSSEUS. Day. Malabar. (Type).
Macrones aor. H.B. Calcutta.
" *seenghala*. Sykes. Delhi.
" *gilio*. H.B. Calcutta.
" *micracanthus*. Java. (Bleeker's Collection).
" *punctatus*. Jerdon. Bowany. Madras.
" *corsula*. H.B. Ghowhaty, Assam.
MACRONES MICROPHthalmus. Day. Burma. (Type).
Macrones cavasius. H.B. Lingasagoor, Deccan.
" *oculatus*. Cuv. and Val. Malabar.
" *vittatus*. Bloch. Madras.
" *leucophasis*. Blyth. Bassein.
" *montanus*. Jerdon. Wynaad.
MACRONES WOLFFII. Java. (One of the types from Bleeker's Collection).
Macrones keletius. Cuv. and Val. Coimbatour.
MACRONES MALABARICUS. Day. South Canara. (Type).
" *ARMATUS*. Day. Canara. (Type).
" *BLEKERI*. Day. Sebarunpore. (Type).
" *NEMURUS*. Cuv. and Val. Java. (One of the types from Bleeker's Coll.)
Leiocassis rama. H.B. Assam.
Erethistes hara. H.B. Assam.
" *conta*. H.B. Burma.
Rita buehanani. Bleeker. Lahore.
" *hastata*. Val. Poona.
Bagrus nemurus. Bl. Java.
ARIUS BURMANICUS. Day. Moulmein. (Type).
Arius caelatus. Cuv. and Val. Bombay.
ARIUS ACUTIROSTRIS. Day. Irrawaddy. (Type).
Arius subrostratus. Cuv. and Val. Canara.
" *sagor*. H.B. Moulmein.
" *sona*. H.B. Calcutta.
ARIUS SCHLEGELII. Bleeker. Amoy, China. (One of Bleeker's types).
ARIUS SERRATUS. Day. Sind. (Type).
Arius thalassinus. Rüpp. Andamans.
ARIUS PIDADA. Bleeker. Java. (One of Bleeker's types).
Arius falcarius. Richardson. Bombay.
" *gagora*. H.B. Calcutta.
" *jatius*. H.B. Burma.
" *maculatus*. Thunb. Java.
" *dussumieri*. Cuv. and Val. Malabar.
Hemipemilodus peronii. Bombay.
Batrachiocephalus mino. H.B. Malabar.
BATRACHIOCEPHALUS MICROPOGON. Bleeker. Java. (One of Bleeker's types).
Osteogeniosus militaris. Linn. Bombay.
Pangasius buehanani. Cuv. and Val. Calcutta.
Pseudotropius taakree. Sykes. Kurnool.
PSEUDEUTROPIUS ACUTIROSTRIS. Day. Burma. Type.
Pseudotropius muris. H.B. Orissa.
" *sykesii*. Jerdon. Cottayam.
" *atherinoides*. Bl. Calcutta.
" *garua*. H.B. Calcutta.
OLYRA BURMANICA. Day. Pegu. (Type).
CRYPTOPTERUS BICIRRI. Bleeker. Java. (One of the types from Bleeker's Coll.)
Callichrous bimaculatus. Bl. Calcutta.
" *pabo*. H.B. Burma.
Callichrous macrophthalmus. Blyth. Burma.
" *malabaricus*. Cuv. and Val. Malabar.
" *pabda*. H.B. Sind.
Wallago attu. Bl. Schn. Calcutta.
SILURUS WYNAADENSIS. Day. Wynaad. (Type).
Silurus afghana. Günther. Darjeeling.
SILURUS JAPONICUS. Bleeker. Java. (One of Bleeker's types).
CHACA LOPHOIDES. Cuv. and Val. Debrooghur, Assam.
Plotosus canius. H.B. Calcutta.
" *arab*. Forsk. Madras.
Clarias teysmanni. Bleeker. Java.
" *magur*. H.B. Calcutta.
CLARIAS ASSAMENSIS. Day. Assam. (Type).
Saccobranchius fossilis. Bl. Assam.
SILUNDIA SYKESII. Day. Kurnool. (Type).
" *gangetica*. H.B. Orissa.
Ailia coila. H.B. Delhi.
AILICHTHYS PUNCTATA. Day. Delhi. (Type).
Eutropichthys vacha. H.B. Orissa.
Amblyceps mangois. H.B. Kangra.
Sisor rhabdophorus. H.B. Delhi.
Gagata cenia. H.B. (series). Calcutta.
" *itchkeea*. Sykes. Poona.
Nangra buehanani. Day. Indus. (Type).
" *punctata*. Day. Sone River.
" *viridescens*. H.B. Allahabad.
Bagarius yarrellii. Sykes. Deccan and Calcutta.
Glyptosternum lonah. Sykes. Poona.
" *telchitta*. H.B. Sone River, Bengal.
GLYPTOSTERNUM MADRASIPATANUM. Day. Bowany, Madras. (Type).
GLYPTOSTERNUM PLATYPOGON. Cuv. and Val. Java. (Type from Bleeker's Collection).
Glyptosternum pectinopterum. McClell. Simla, Himalayas.
" *cavia*. H.B. Jumna.
EUGLYPTOSTERNUM LINEATUM. Day. Suddya, Assam. (Type).
Pseudecheneis sulcatus. McClell. Darjeeling.
Exostoma andersoni. McClell. Bhamo, China.
" *blythii*. McClell. Darjeeling.
SAURUS INDICUS. Day. Madras. (Type).
" *myops*. Bl. Schn. Madras.
" *varius*. Lacép. Amboina.
Saurida nebulosa. Cuv. and Val.
Harpodon nehereus. H.B. Madras.
Belone choram. Forsk. Bombay.
" *cancila*. H.B. Madras (variety). Hurdwar.
" *strongylurus*. V. Hass. Bombay.
HEMIRHAMPHUS CANTORI. Bleeker. Madras. (Co-type).
Hemirhamphus commersonii. Bleeker. Batavia.
" *xanthopterus*. Cuv. and Val. Malabar.
HEMIRHAMPHUS GAIMARDI. Batavia. (Type from Bleeker's Collection).
Hemirhamphus unifasciatus. Ranzani. Andamans.
HEMIRHAMPHUS MARGINATUS. Batavia. (Type from Bleeker's Collection).
HEMIRHAMPHUS DUSSUMIERI. Batavia. (Type from Bleeker's Collection).
HEMIRHAMPHUS FAR. Forsk. Batavia. (From Bleeker's Collection).
Hemirhamphus limbatus. Cuv. and Val. Coromandel Coast.
" *buffonis*. Cuv. and Val. Andamans.
" *ectunctio*. H.B. Cal. and Batavia. (One of types of *H. amblyurus*, Bleeker.)
" *dispar*. Cuv. and Val. Andamans.
Exocoetus micropterus. Cuv. and Val. Batavia.
" *evolans*. Linn. Andamans.
" *mento*. Cuv. and Val. Madras, Malay Archipel.
Cyprinodon dispar. Rüpp. Male and Female. Kutch.
Haplocheilichthys melastigma. McClell. Madras.
" *rubrostigma*. Jerdon. Madras.
" *lineatus*. Cuv. and Val. Madras.
" *panchax*. H.B. Andamans.
Homaloptera brucei. Gray and Hardw. Bowany.
" *maculata*. Gray and Hardw. Wynaad.
" *bilineata*. Blyth. Tenasserim.
HOMALOPTERA GYMNOSTER. Bleeker. Sumatra. (Co-type).
Discognathus lamta. H.B. Madras, Salt Range.
DISCOGNATHUS JERDONI. Day. Bowany. (Type).
Discognathus modestus. Day. Assam.
Oreinus sinuatus. Heckel. Simla.
" *richardsonii*. Gray and Hardw. Himalayas.
" *plagiostomus*. Heckel. Suddya, Assam.
Schizothorax progastus. McClell. Suddya.
Diptychus maculatus. Steind. Nepal.
Labeo nardina. H.B. Assam.
" *macronotus*. H.B. Burma.
" *imbriatus*. Bloch. Orissa.
Labeo nigrescens. Day. Mangalore. (Type).
Labeo calbasu. H.B. Ghowhaty.
" *stoliczkae*. Steind. Burma.
" *gonius*. H.B. Calcutta, Bengal.
" *rohita*. H.B. Gowhaty.

- Labeo porcellus*. *Heckel*. Poona.
 " *potail*. *Sykes*.
 " *kotius*. *Jerdon*. Bowany, Madras.
 " *diplostomus*. *Heckel*. Simla.
 " *dyocheilus*. *McClell*. Debrooghur.
 " *pangusia*. *H.B.* Assam.
 " *angra*. *H.B.* Mandalay.
 " *bata*. *H.B.* Patna, Assam.
 " *microphthalmus*. *Day*. Himalayas.
 " *boggut*. *Sykes*. Calcutta.
 " *boga*. *McClell*. Madras.
 " *nukta*. *Sykes*. Poona.
LABEO NIGRIPINNIS. *Day*. Sind. (Type.)
SINDENSIS. *Day*. Sind. (Type.)
Labeo ariza. *H.B.* Madras.
 " *kaurus*. *Sykes*. Poona.
 " *bovianus*. Bowany.
OSTEOCHEILUS NEILLI. *Day*. Burma. (Type.)
 " *MELANOPLURUS*. *Bleeker*. Sumatra. (Co-type.)
DANGILA BURMANICA. *Day*. Moulmein. (Type.)
Cirrhhina cirrhosa. *Bloch*.
 " *leschenaultii*. *Cuv. and Val.* Madras.
 " *mrigala*. *H.B.* Calcutta.
 " *latia*. *H.B.* Simla.
 " *reba*. *H.B.* Assam.
 " *fulungee*. *Sykes*. Decan.
SEMILOTUS MODESTUS. *Day*. Akyab. (Type.)
 " *MACLELLANDI*. *Bleeker*. Suddya, Assam. (Co-type.)
SCAPHIODON WATSONI. *Day*. Sind. (Type.)
 " *IRREGULARIS*. *Day*. Sind. (Type.)
 " *THOMASSI*. *Day*. Canara. (Type.)
 " *BREVIDORSALIS*. *Day*. Bowany Madras. (Type.)
 " *NASHII*. *Day*. Madras. (Type.)
Carassius auratus. *Linna*. Yunnan, China.
Catla buehanani. *Cuv. and Val.* Calcutta.
Thynnichthys sandkhoh. *Sykes*. Godavery.
Amblypharyngodon atkinsonii. *Blyth*. Prome.
 " *mola*. *H.B.* Upper Assam, Calcutta.
AMBLYPHARYNGODON MICROLEPIS. *Bleeker*. Orissa. (Co-type.)
Amblypharyngodon melettinus. *Cuv. and Val.* Coch. in.
Barbus chagunio. *H.B.* (var. *spilopterus*). Assam.
 " *sarana*. *H.B.* S. Canara, Assam.
BARBUS DUBIUS. *Day*. Bowany, Madras. (Type.)
Barbus micropogon. *Cuv. and Val.* Madras.
 " *chilinoideus*. *McClell*. Simla.
 " *carinatus*. *Jerdon*. Bowany, Madras.
 " *hexagonolepis*. *McClell*. Assam.
BARBUS DUKAI. *Day*. Darjeeling. (Type.)
Barbus tor. *H.B.* Assam (variety). S. Canara.
 " *hexastictus*. *McClell*. Jumna.
BARBUS BOVIANUS. *Day*. Bowany, Madras. (Type.)
Barbus sophore. *H.B.* Khasia Hills.
 " *curmuca*. *Buch.* Canara.
BARBUS LITHOPIDOS. *Day*. Canara. (Type.)
Barbus tambroides. *Bleeker*. Sumatra.
 " *tambra*. *Cuv. and Val.* Sumatra.
BARBUS DOBSONI. *Day*. Poona. (Type.)
 " *JERDONI*. *Day*. Canara. (Type.)
 " *WYNAADENSIS*. *Day*. Vithry, Wynaad. (Type.)
 " *NEILLII*. *Do*. Deccan. (Type.)
Barbus malabaricus. *Jerdon*. Malabar and Madras.
BARBUS MELANAMPYX. *Day*. Wynaad. (Type.)
Barbus macrolepidotus. *Cuv. and Val.* Tavoy.
 " *chola*. *Han. Buch.* Madras.
BARBUS PARRAH. *Day*. Kurriavanoor. (Type.)
Barbus burmanicus. *Do*. Pegu.
 " *tetrapogus*. *McClell*. Hurdwar.
 " *dorsalis*. *Jerdon*. Madras.
 " *kolus*. *Sykes*. Deccan.
BARBUS DENISONII. *Day*. Travancore Hills. (Type.)
 " *ARENATUS*. *Do*. Madras. (Type.)
Barbus amphibius. *Cuv. and Val.* Calicut, Jubbulpore.
 " *arulus*. *Jerdon*. Wynaad.
 " *mahecola*. *Cuv. and Val.* S. Canara.
 " *apogon*. *Cuv. and Val.* Bassein.
BARBUS AMBASSIS. *Day*. Madras. (Type.)
Barbus conchionius. *H.B.* Lahore, Allahabad.
 " *tieto*. *H.B.* Ganjam.
BARBUS STOLICZKANUS. *Day*. Moulmein. (Type.)
 " *PUNCTATUS*. *Day*. Kurriavanoor.
Barbus gelius. *H.B.* (Series). Suddya.
 " *phutunio*. *H.B.* (Series). Assam.
 " *stigma*. *Cuv. and Val.* Punjab, Madras.
 " *chrysoterus*. *McClell*. Hurdwar.
 " *terio*. *H.B.* Punjab.
BARBUS PUNJAUBENSIS. *Day*. Sind. (Type.)
 " *UNIMACULATUS*. *Blyth*. (Blyth's type.) Sitang River.
Barbus waageni. *Day*. Salt Range.
 " *cosutis*. *H.B.* Calcutta.
 " *vittatus*. *Day*. Madras.
 " *filamentosus*. *Cuv. and Val.* Madras.
Nuria daurica. *H.B.* Malabar.
 " *alta*. *H.B.* Pegu.
 " *malabarica*. Malabar.
Rasbora elanga. *H.B.* Bengal.
 " *daniconius*. *H.B.* Ootacamund.
RASBORA BUCHANANI. *Bleeker*. Calcutta. Darjeeling. (Co-type.)
Aspidoparia morar. *H.B.* Roorkee.
 " *jaya*. *H.B.* N. W. Provinces.
Tinea vulgaris. *Cuvier*. Ootacamund.
ROHTEE BAKERI. *Day*. Cottayam. (Type.)
Rohtee cotio. *H.B.* Assam.
 " (variety) *alfediana*. *Cuv. and Val.* Orissa.
 " *vigorsii*. *Sykes*. Deccan.
 " *belangeri*. *Cuv. and Val.* Prome.
 " *ogilbii*. *Sykes*. Madras.
Barilius vagra. *H.B.* Kangra and Simla.
BARILIUS MODESTUS. (Type.) *Day*. Punjab.
Barilius schacra. *H.B.* Assam.
 " *bendelisis*. *H.B.* (Series). Assam and Madras.
 " *barila*. *H.B.* Delhi.
BARILIUS BAKERI. *Day*. Travancore Hills. (Type.)
Barilius gatensis. *Cuv. and Val.* Wynaad.
 " *canarensis*. *Jerdon*. Canara.
 " *barna*. *H.B.* Orissa, Assam.
BARILIUS GUTTATUS. *Day*. Prome. (Type.)
Barilius tileo. *H.B.* Assam.
BARILIUS EVEZARDI. *Day*. Poona. (Type.)
Barilius bola. *H.B.* Assam.
BARILIUS INTERRUPTUS. *Day*. Hotha, Yunnan. (Type.)
Barilius coes. *H.B.* Bengal.
 " *chedia*. *Gray*. Bengal.
Danio devario. *H.B.* Hurdwar.
DANIO SPINOSUS. *Day*. Burma. (Type.)
Danio malabaricus. *Jerdon*. Malabar, Shevaroy Hills.
 " *equipinnatus*. *McClell*. Darjeeling.
 " *dangila*. *H.B.* Assam.
DANIO NEILGHERRENSIS. *Day*. Ootacamund. (Type.)
Danio rerio. *H.B.* Orissa.
DANIO ALBOLINEATA. *Blyth*. Moulmein (Blyth's type.) Burma.
 " *NIGROFASCIATUS*. *Day*. Pegu. (Type.)
Perilampus laubuca. *H.B.* Assam (var. *fulvescens*) Moulmein.
 " *athar*. *H.B.* Bengal.
Chela gora. *H.B.* Orissa and Sind.
CHELA SLADONI. *Day*. Prome. (Type.)
Chela sardinella. *Cuv. and Val.* Bassein.
CHELA UNTRAHI. *Day*. Mahanuddi and Madras Rivers. (Type.)
 " *ARGENTEA*. *Day*. Bowany. (Type.)
 " *PUNJAUBENSIS*. *Day*. Lahore. (Type.)
Chela phulo. *H.B.* Deccan.
CHELA BOOPIS. *Day*. Canara. (Type.)
Chela clupeoides. *Bloch*. Madras.
 " *bacula*. *H.B.* Assam.
Botia dario. *H.B.* Sone River.
 " *geto*. *H.B.* Jumna.
 " *almorra*. *Gray*. Almorra.
BOTIA BERDMOREI. *Blyth*. Burma. (One of Blyth's types.)
ACANTHOPSIS CHOIRORHYNCHUS. *Bleeker*. Prome. (Co-type.)
Somileptes gongota. *H.B.* Bheerbohm.
Lepidocephalichthys guntea. *H.B.* (Series). Kushtea, Calcutta, Bheerbohm.
 " *thermalis*. *Cuv. and Val.* Madras and Shevaroy Hills.
 " *berdmorei*. *Blyth*. Moulmein.
Misgurnus anguillicaudatus. *Cantor*. Ponce, Yunnan.
Acanthopthalmus pangia. *H.B.* Mandalay.
APUA FUSCA. *Blyth*. Pegu. (One of Blyth's types.)
NEMACHILICHTHYS RUFFELLI. *Day*. Poona. (Type.)
NEMACHEILUS RABIDIPINNIS. *Blyth*. Tenasserim. (One of Blyth's types.)
Nemacheilus botia. *H.B.* Scharunpore.
 " *urophthalma*. *Günther*. Godavery.
NEMACHEILUS PULCHELLUS. *Day*. Bowany, Madras. (Type.)
 " *GUNTHERI*. *Day*. Neilgherries. (Type.)
 " *SEMIARMATUS*. *Day*. Bowany. (Type.)
Nemacheilus corica. *H.B.* Hurdwar.
 " *rupicola*. *McClell*. Simla.
 " *montanus*. *McClell*. Simla.
NEMACHEILUS STRIATUS. *Day*. Wynaad. (Type.)
 " *MULTIFASCIATUS*. *Day*. Darjeeling. (Type.)
 " *DENISONII*. *Day*. Malabar. (Type.)
 " *NOTOSTIGMA*. *Bleeker*. Ceylon. (Co-type.)
Nemacheilus zonatus. *McClell*. Allahabad.
NEMACHEILUS TRIANGULARIS. *Day*. Travancore. (Type.)
Nemacheilus beavani. *Günther*. Bowany.
 " *epilopterus*. *Cuv. and Val.* Cashmere.
 " *marmoratus*. *Heckel*. Cashmere.
Engraulis hamiltonii. *Gray*. Burma.
 " *malabaricus*. *Bloch*. Sind.
 " *mystax*. *Bl. Schn.* Madras.
 " *kammalensis*. *Bleeker*. Orissa.
 " *Engraulis*.

- Engraulis boelama*. *Forsk.* Amboina.
 " *telara*. *H.B.* Mandalay.
 " *purava*. *H.B.* Madras.
 " *commersonianus*. *Lacép.* Do.
 " *indicus*. *V. Hass.* Orissa.
ENGRAULIS TRI. *Bleeker.* Madras. (Co-type.)
Coilia ramcarati. *H.B.* Calcutta.
 " *dussumieri*. *Cuv. and Val.* Orissa.
COILIA BORNEENSIS. *Bleeker.* Rangoon. (Co-type.)
Chatoessus chacunda. *H.B.* Malabar.
CHATOESSUS MODESTUS. *Day.* Burma. (Type.)
Chatoessus maninna. *H.B.* Orissa.
 " *nasus*. *Bloch.* Madras.
Clupea longiceps. *Cuv. and Val.* Canara.
 " *fimbriata*. *Cuv. and Val.* Madras.
CLUPEA SINDENSIS. *Day.* Bombay. (Type.)
Clupea lile. *Cuv. and Val.* Orissa.
CLUPEA ARGYROPTERIS. *Bleeker.* (Type from Bleeker's Coll.) Batavia.
CLUPEA VARIIGATA. *Day.* Bassein. (Type.)
Clupea chapra. *H.B.* Orissa.
 " *ilisha*. *H.B.* Sunderbunds.
CLUPEA KANAGURTA. *Bleeker.* Orissa. (Co-type.)
Clupea toli. *Cuv. and Val.* Bombay.
 " *venenosa*. *Cuv. and Val.* Sind.
Pellona filigera. *Cuv. and Val.* Bombay.
 " *elongata*. *Bennett.* Madras.
 " *motius*. *H.B.* Ganjam.
 " *ditchooa*. *Madras.*
 " *megaloptera*. *Swains.* Madras.
Opisthopterus tartoor. *Cuv.* Madras, Ganjam.
Raconda russelliana. *Gray.* Orissa.
DUSSUMIERIA HASSELTII. *Bleeker.* Madras. (Co-type.)
Dussumieria acuta. *Cuv. and Val.* Canara.
SPRATTELLOIDES MALABARICUS. *Day.* Malabar. (Type.)
Megalops cyprinoides. *Brouss.* Madras.
Chanos salmoneus. *Bl. Schn.* Canara.
Doryichthys cruentus. *H.B.* Madras.
Chirocentrus dorab. *Forsk.* Madras.
Notopterus kapirot. *Lacép.* Assam.
 " *chitala*. *H. B.* Bengal.
Monopterus javanensis. *Lacép.* Batavia and Burmah.
Anguilla bicolor. *McCell.* Madras.
Congromuraena anago. *Tem. and Schleg.* Andamans.
Uroconger lepturus. *Richards.* Madras.
Muraenesox cinereus. *Forsk.* Calcutta.
OPHICHTHYS MICROCEPHALUS. *Day.* Madras. (Type.)
Ophichthys colubrinus. *Boddaert.* Andamans and Amboina.
 " *orientalis*. *McClell.* Orissa.
Moringua raitaborua. *H.B.* Calcutta.
Muraena tile. *H.B.* Andamans.
MURENA SIDAT. *Bl.* Andamans.
Muraena sathete. *H.B.* Andamans.
 " *tessellata*. *Richards.* Andamans.
 " *fimbriata*. *Bennett.* Malay Archipel.
MURENA PSEUDOTHYRSOIDEA. *Bleeker.* Sind. (Co-type.)
Muraena undulata. *Lacép.* Andamans.
 " *picta*. *Ahl.* Andamans.
 " *nebulosa*. *Ahl.* Batavia and Malay Archipel.
Gymnomuraena marmorata. *Lacép.* Andamans.
Syngnathus serratus. *Schleg.* Madras.
 " *intermedius*. *Kaup.* Madras.
 " *spicifer*. *Rüpp.* Madras.
Gastrotokeus biaculeatus. *Bloch.* Andamans and Malay Archipel.
Acentronura gracillima. *Tem. and Schleg.* Andamans.
Triacanthus brevirostris. *Tem. and Schleg.* Madras.
 " *strigilifer*. *Cantor.* Madras.
Balistes stellatus. *Bl. Schn.* Madras.
 " *maculatus*. *Gm. Linn.* Madras.
 " *vidua*. *Richards.* Malay Archipel.
 " *viridescens*. *Bl. Schn.* Andamans.
 " *undulatus*. *Mungo Park.* Malay Archipel.
 " *verrucosus*. *Bl. Schn.* Malay Archipel.
MONACANTHUS CHOIROCEPHALUS. *Bleeker.* Madras. (Co-type.)
Monacanthus tomentosus. *Linn.* Malay Archipel.
Ostracion turritus. *Forsk.* Madras.
 " *cubicus*. *Linn.* Malay Archipel.
 " *cyanurus*. *Rüpp.* Suez.
 " *solorensis*. *Bleeker.* Malay Archipel.
Xenopterus naritus. *Richards.* Rangoon.
Tetrodon inermis. *Tem. Schleg.* Madras.
 " *lunaris*. *Bl. Schn.* Madras.
 " *secleratus*. *Gm. Linn.* Malay Archipel.
TETRODON HYPSELOGENION. *Bleeker.* Madras. (Co-type.)
Tetrodon oblongus. *Bloch.* Andamans.
 " *patoca*. *H.B.* Madras.
 " *cutcutia*. *H.B.* Ganjam.
 " *immaculatus*. *Bl. Schn.* Madras.
 " *reticularis*. *Bl. Schn.* Malay Archipel.
TETRODON LEOPARDUS. *Day.* Madras. (Type.)
Tetrodon fluviatilis. *H.B.* Malay Archipel. and Calcutta.
TROTODON PAPUA. *Bleeker.* Malay Archipel. (Co-type.)
 " *ERYTHROTENIA.* *Bleeker.* Malay Archipel.
Diodon hystrix. *Linn.* Malay Archipel.
 " *maculatus*. *Lacép.* Malay Archipel.
Trygon kuhlii. *Müll. and Hl.* Malay Archipel.

1885.

NEW SOUTH WALES.

TECHNOLOGICAL, INDUSTRIAL, AND SANITARY MUSEUM.

(REPORT OF THE COMMITTEE OF MANAGEMENT FOR 1884.)

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 Fifth 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. (Chairman); 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 1884. The total number of visitors for the year has been 57,197 (Sundays 26,128 and week-days 31,069). The largest Sunday attendance was on August 17th, when 1,273 persons passed the turnstile. On December 26th the number of visitors was 606, being the largest number for a week-day. An examination of Appendix II shows that the attendance is increasing month by month, and the Committee does not doubt that this increase will be much more marked as the Museum becomes better known.

3. The Museum is still situated in the Agricultural Hall, Outer Domain, which is rapidly becoming inadequate for the purpose. It is hoped that, during the coming year, additional accommodation for the valuable and rapidly increasing collections may be provided. Apart from the question of size, the Committee would respectfully urge that the present Museum premises are unsuitable in other respects, notwithstanding the liberal manner in which the Government has been pleased to sanction improvements to the structure, which have been suggested by the Committee.

Provision has been made for a night watchman, and every precaution is taken with the view to prevent an outbreak of fire.

4. The total number of specimens acquired during the year is 5,395. Numerous exhibits of value have been presented to the Museum, and several gentlemen have lent valuable specimens. Of the purchases acquired by the Committee, special attention may be invited to a collection of 80 large models of furnaces, &c.; a comprehensive series of constructive materials subjected to various stresses; and a large number of casts, in plaster of Paris and fictile ivory, of specimens of art workmanship in some of the principal European Museums. The locomotive which was the first to run in New South Wales is now in the Museum, and its interest will of course be enhanced as time goes on.

5. Since September 24th popular descriptions of the contents of the Museum have been given by the Curator every Wednesday afternoon. The interest taken by visitors in these explanatory discourses (which are further illustrated by experiments wherever possible), has been so marked that it is contemplated to continue them regularly.

6. The Committee begs to add to this its Report the following Appendices:—

- I.—Balance-sheet for the year ending 31st December, 1884.
- 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
11th day of February, 1885.

(L.S.) A. LIVERSIDGE, } Members
(L.S.) ROBERT HUNT, } of
(L.S.) ALFRED STEPHEN, } Committee.
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, 1884.

RECEIPTS.			EXPENDITURE.		
	£	s. d.		£	s. d.
The Honorable the Treasurer—			Salaries and wages	1,395	13 6
Vote for 1884	4,300	0 0	Show-cases	797	18 1
Night Watchman, 1883 ...	33	6 8	Specimens	1,017	11 7
" 1884 ...	99	9 6	Bottles	111	8 0
			Furniture	50	15 6
Australian Museum—Night Watchman.....			Stationery	41	17 11
Bank of New South Wales—Refund of			Freights	130	1 10
interest			Ironmongery	74	16 0
			Painter's materials	22	14 8
			Timber	46	1 6
			Labels	9	3 11
			Printing and advertising	29	3 0
			Books, diagrams, maps, &c.	537	14 2
			Collection of specimens	6	14 0
			Uniforms for attendants, &c.	18	16 0
			Exchange, postage, &c.	8	4 4
			Insurance	45	10 0
			Additions to premises	16	11 0
			Sundries	15	16 8
Total receipts	4,450	0 4	Total expenditure	4,376	11 8
Balance from 1883—			Refunds to Treasurer	26	14 7
Bank of New South Wales 1,129 8 1			Balance to 1885—		
Less amount due to Curator 0 18 4			Bank of New South Wales 1,172 4 0		
			Cash in hand	2	19 10
				1,175	3 10
	£	5,578 10 1		£	5,578 10 1

Examined and found correct,—
ROBERT HUNT.

APPENDIX II.

ATTENDANCE (AFTERNOONS ONLY) OF VISITORS DURING 1884.

						Sundays.	Week-days.
January	...	...	...	...	...	1,125	2,915
February	...	...	...	...	...	1,175	1,487
March	...	...	...	...	...	1,363	2,160
April	...	...	...	...	...	1,261	1,953
May	...	...	...	...	...	1,596	2,108
June	...	...	...	...	...	1,930	2,125
July	...	...	...	...	...	2,508	2,623
August	...	...	...	...	...	4,312	2,919
September	...	...	...	...	...	3,068	2,780
October	...	...	...	...	...	2,919	3,184
November	...	...	...	...	...	2,952	3,157
December	...	...	...	...	...	1,919	3,658
						26,128	31,069
Total	...	...	...	...	...	57,197	

APPENDIX III.

PURCHASES (Specimens).

When received.	Description of Exhibit.
1884.	
25 January	Twenty-five specimens of limestones, sandstones, and conglomerates, &c., from Germany, Italy, Austria, and Russia.
29 "	(1) A collection of forty kinds of Italian alabasters, in rectangular blocks. A number of alabaster sculptures in the form of vases, animals, leaves, &c. (2) A collection of twenty-two kinds of fruit sculptured in Carrara marble and artistically coloured. (3) A very complete collection of miscellaneous educational appliances, maps, diagrams, models, and educational publications, as used in the schools of Italy and Germany.
23 February	Small herbarium of forest trees. Collection of twenty-eight fruits of forest trees. Fifty-two small specimens of European woods. Grass herbarium (100 large specimens). Grass herbarium (50 small specimens). Two small herbaria of economic plants (140 specimens). Imitations of gems and precious stones. Twenty-five geometrical models in glass. Specimens of the various races of silkworms (in glass case). Series to illustrate the life history of the honey-bee. Complete series of specimens to illustrate the following manufactures:—Linen, cotton, wool, silk, leather, paper, glass, iron and steel. Model of loom. A collection of raw products and manufactured articles used in heating and lighting. A collection of dye-wares, and fabrics treated with them. Object-lesson cabinet of raw products of animal, vegetable, and mineral origin (250 specimens).
28 "	Herbarium of 100 specimens of medicinal plants, &c. Do. do. forage plants. Do. do. meadow grasses. Do. do. plants useful in agriculture. Do. do. plants injurious to agriculture.
18 March	A collection of 100 ornamental stones, polished. A collection of silk-producing moths (eleven species). A comprehensive exhibit to illustrate the paraffin industry as carried on by the Young's Paraffin Light Co. (Glasgow), including cannel coal, samples of solid paraffin of every degree of purity, and a trophy of candles, also samples of mineral oils and of all the by-products formed.
21 "	Forty-five specimens of minerals containing iron. Seventeen do. do. lead. Twenty-five do. do. copper. Also a large number of other ores of metals. 121 specimens of gems and precious stones.

APPENDIX III—continued.

PURCHASES.

When received.	Description of Exhibit.	e
1884. 21 March ...	A collection of thirty-five combustible minerals. Collection of fifty minerals used in the preparation of miscellaneous chemical compounds. Collections of fifty-two minerals and rocks used as pigments and for optical purposes. Stones used in building construction (350 specimens). A collection to show the optical properties of minerals (twenty-five specimens). Do. do. cleavage (twenty-five specimens). Do. arranged in order of specific gravity (twenty-five specimens). Do. do. melting points (seven specimens).	
13 May ...	Tested specimens to illustrate the mechanical properties of the kinds and qualities of structural materials mentioned below, viz. :— Steel bars, plates, forgings, tubes, angles, rails. Wrought-iron bars, plates. Copper alloys, steel and iron wires. Cements, granites, sandstones. English and American oaks, pines, &c. The above have been tested under the following stresses :—Pulling, thrusting, twisting, bending, bulging, and shearing. This is a most valuable collection, and one of especial interest to architects, engineers, &c.	
14 „ ...	Nine large models to scale of the following :— Roasting furnace for arsenical ores. Large puddling furnace with double Siemens' gas-regenerator. Furnace for distilling zinc (Journal of the German Engineering Association, 1872, vol. I.) Furnace for smelting zinc ores (Mitscherlich). Quicksilver furnace (Prechtel). Copper-refining hearth (or small German hearth), according to Percy. Furnace for making English crown glass (Karmarsch). Porcelain oven. Periodical oven for lime-burning.	
12 June ...	New South Wales furs, skins, viz. :—Dingo, kangaroo, opossum, native cat, wallaby, &c.; also skin of carpet snake, emu eggs, pearl shells, &c.	
21 „ ...	Seventy-six marble slabs, 20 inches square, 1 inch thick, with polished faces and names incised and gilt. From Italy, France, Belgium, Germany, &c.	
25 July ...	A large number of casts in plaster of Paris and fictile ivory, of important works of art in several of the principal European Museums. The collection includes reliquaries, candlesticks, processional crosses, crucifixes, pastoral staffs, book covers, salvers, medallions, ewers, caskets, ciboria, censers, knockers, sword-hilts, shields, a large number of beautiful panels, a provisorium, a lettner, a mirror frame, a number of specimens of early Gothic church ornament, &c., &c. Photographs of works of art. Especially notice is invited to some magnificent candelabra, and to reproductions of portions of the celebrated oak ceiling (which dates from the 16th century) in the castle of Jever, belonging to the Grand Dukes of Oldenburg.	
9 September ...	Miscellaneous specimens, including terra cotta medallions, Japanese cloisonné enamelled vases, model of catamaran from Ceylon, gnus' and elephants' tails from South Africa, embroidered silk dress from Greece, numerous samples of ancient Greek pottery, &c., &c.	
17 „ ...	A collection of about 170 specimens consisting of vegetable substances used in pharmacy, dyeing, &c., and rare chemicals.	
3 October ...	A number of Chinese articles, including opium and tobacco pipes, weighing and calculating apparatus, musical instruments, &c.	
15 „ ...	Japanese and Chinese porcelain vases, old Japanese bronzes, and grotesque wood carving, serpentine tazza, Australian boomerang and waddy, &c.	
27 „ ...	Set of small models of appliances for catching fish. Thirty models of ploughs of various nations. Set of small models of agricultural implements for children's object lessons. A series of specimens to illustrate various methods of budding and grafting. A collection of fifty mineral fertilizing substances. Small herbarium of forest trees. Grass herbarium, consisting of 300 large specimens beautifully mounted. A collection of thirty ornamental woods, polished. A series of specimens (preserved in spirits) to illustrate the anatomy of the silk-worm. Models (greatly enlarged) in papier maché of the following :—Male and female silk-worm moths; gooseberry; mulberry; strawberry; and ten models illustrating natural orders of plants. Set of models of celebrated diamonds.	
14 November ...	“Musée Dorangeon,” consisting of twelve object lesson cards, with specimens affixed. Pituri (the masticatory of the Australian aborigines), in semi-circular bag, obtained at Mount Margaret Station, on the Wilson River, South-west Queensland.	

APPENDIX III—*continued.*

PURCHASES.

When received.	Description of Exhibit.
1884.	
26 November ..	A collection of Huddersfield and Halifax manufactures, consisting of damasks and table coverings, arranged in album form.
3 December ...	Hemispherical cast-iron bowl, used for cooking purposes in China, also Chinese hoe, and a book of paintings of Chinese mythology (on rice paper).
29 „ ...	A valuable and important collection of large models of machinery, furnaces, &c., of wood and metal. Each is carefully constructed to scale.
	Watts' beam steam-engine, with condenser, pumps, and regulator.
	Morgan's paddle-wheel (four movable paddles).
	Buchan's paddle-wheel.
	Oldham's paddle-wheel.
	Over-shot wheel, of wood, according to Weinbach.
	Under-shot wheel, of wood and iron.
	Daelen's steam-hammer.
	Roasting furnace, according to Scheerer.
	Nasmyth's steam-hammer.
	Swedish roasting furnace for iron ores, according to Scheerer.
	Roasting furnace for iron ores, with cylindro-conical shaft, according to Scheerer.
	Furnace, with Siemens' regenerator.
	Mansfield double roasting furnace, according to Scheerer.
	Puddling furnace, according to Scheerer.
	Double refining fire with heating furnace, according to Karsten.
	Single refining fire, according to Karsten.
	Double refining oven (hearth) for iron.
	Furnace for refining iron, according to Karsten.
	Refining furnace, according to Karsten.
	Flowing furnace, with closed breast.
	Sump furnace, with open breast.
	Siegerland blasting furnace.
	"Spectacles" furnace, according to Scheerer.
	Rachett's smelting furnace for copper ores.
	Smelting furnace for lead ores.
	Double Saiger furnace.
	German cupelling furnace for lead ores containing silver, according to Scheerer.
	Furnace for copper ores.
	Crucible furnace, with open breast, for the treatment of copper, silver, and other ores, according to Scheerer.
	Large cupola furnace, according to Weibe.
	Cupola furnace, with cast-iron shell.
	Furnace for founder.
	Double crucible furnace for brass-foundries.
	Furnace for heating boiler-plates, according to Weibe.
	Do. lead ores, according to Karsten.
	Do. heating plates, according to Karsten.
	Sheet-glass furnace, according to Dumas.
	Furnace for annealing glass, according to Karmarsch.
	Large channel kiln for bricks.
	Kiln for bricks, with three furnaces.
	Do. with six furnaces.
	Hoffmann's circular kiln.
	Lime-kiln, with several fires.
	Belgian continuous lime-kiln.
	Potter's furnace.
	Models to show charcoal-burning from logs.
	Oven for making wood charcoal, according to Karsten.
	Coke oven.
	Tar-kiln.
	Baker's single oven for wood fuel.
	Heating apparatus for a brewer's copper.
	Malt-kiln.
	Stephenson's link-motion.
	Gooch's link-motion.

APPENDIX IV.
DONATIONS (Specimens).

Date.	Articles received.	Name of Donor.
1884.		
4 Jan. ...	A collection of seeds of grasses, &c.; vegetables, &c. (about seventy specimens).	Mr. F. T. Sharp, Sydney.
5 " ...	A large and comprehensive exhibit of articles manufactured by the Company, consisting of grates, stoves, ovens, stall, stable-fittings, &c.; sink-traps, cast-iron pots, &c., &c. Also, samples of coal, limestone, iron ores, &c., from the Company's mines.	The Carron Co., Falkirk, N.B., through David Cowan, Esq., Manager.
7 " ...	Agar-agar, a preparation from sea-weed ...	Mr. Emil Paterson, C.E.
8 " ...	A valuable collection of economic botany specimens, including North American timbers; articles made out of Japanese woods; barks and fibres; and substances used as spices and in pharmacy.	The Director, Royal Botanic Gardens, Kew, London.
14 " ...	Model of the patent tram-rail of M. Victor Demerbe, of Jemappes, Belgium.	Messrs. Ostermeyer, Dewez, & Co. (Limited), Sydney.
15 " ...	Case containing a series of specimens illustrating all the stages in the manufacture of needles. Case containing a series of specimens illustrating all the stages in the manufacture of sea and fresh water fish-hooks. Case containing a series of specimens illustrating all the stages in the manufacture of steel pens, together with samples of various steel pens.	Messrs. Henry Milward & Sons, Redditch, England. Do. Messrs. Joseph Gillott & Sons, Victoria Works, Birmingham.
21 " ...	An extensive and valuable collection of specimens of economic geology, consisting of foreign rocks (110), Victorian rocks (70), and minerals (150).	The Trustees of the Public Library, Museums, and National Gallery of Victoria.
24 " ...	Samples of fossil nuts found under the basalt in the workings of the Great Extended Gold-mining Company's claim at Forest Reefs, New South Wales.	Mr. J. M. Smith, Sydney.
28 " ...	Sample of stream tin ...	Mr. Arthur Stacey, Sydney.
30 " ...	An exhibit in show-case, complete, showing all the stages in the manufacture of sewing-needles. (With illustrated explanatory text.)	Messrs. Lewis, Wright, & Baylis, Redditch, through Mr. James Wilson, Sydney.
7 Feb. ...	Samples of batteries, wires, insulators, &c., as used in the Italian telegraphic service; together with a collection of official publications.	The Director-General of Telegraphs, Rome.
9 " ...	Specimens of barks, fibres, gums, resins, &c. ...	The Director, Botanic Gardens, Melbourne.
12 " ...	Seven large specimens illustrative of the metallurgy of copper from the ore, through all stages of treatment to the ingot ready for the market, from the Nymagee Copper-mine, Nymagee, New South Wales. One sample of high-class hogget wool ...	Mr. George Hardie, Sydney. Messrs. Shanahan & Jennings, Garrawalla Station, Liverpool Plains, New South Wales, through Wool-classers' Association of New South Wales, Liverpool.
	Five samples of high-class wool from stud-ewes. Five samples of high-class wool from stud-rams.	A. Lucian Faithfull, Esq., Goulburn, through the Wool-classers' Association.
14 " ...	Specimens from the South Sea Islands:—Four spears armed with barbs of human bone, vegetable ivory-nuts, candle-nuts, &c.	Mr. J. E. M. Russell, Sydney.
20 " ...	Model of Archimedean screw ventilator ...	Mr. W. J. Clampett, Sydney.
22 " ...	Two bags made of split screw-pine leaves (<i>Pandanus odoratissimus</i>).	Mr. J. E. M. Russell.
29 " ...	Large model of tram-car, embodying suggested improvements; also models of two kinds of tram-rails designed for use on New South Wales tramways. (Designed and made by donor.)	Mr. Thomas Earley, Glebe, near Sydney.
6 Mar. ...	Twenty-four assorted specimens of high-class wool ...	Messrs. W. & T. C. Dickson, Yarrowen, Brewarrina, New South Wales, through the Wool-classers' Association of New South Wales.
10 " ...	Three large blocks of kerosene shale (Torbanite), from near Mittagong, New South Wales.	Australian Kerosene Oil and Mineral Co., Jondja Creek.
12 " ...	Sample of tin-ore from the Black Swamp, New England, New South Wales.	Mr. J. Reed, Sydney.

APPENDIX IV—continued.

DONATIONS.

Date.	Articles received.	Name of Donor.
1884.		
20 Mar. ...	A large number of samples of fractured bar-iron (L. & N. W. R. O. brand), including round, square, and flat bars of various qualities, chain and rivet iron, tire and horse-shoe iron, &c., &c.	The Right Honorable the Earl of Dudley, K.G., through his Agent, Mr. E. Fisher Smith, Dudley.
8 May ...	Locomotive Engine, No. 1—the first engine to run on a line in New South Wales. This engine, built by Messrs. R. Stephenson & Son, arrived in Sydney in January, 1855. It commenced running in May of that year, and ended its service in May, 1877, after having run 383,636 miles. The rails upon which the engine is standing in the Museum are two of the original "Barlow" rails laid on the line between Sydney and Parramatta.	The Commissioner for Railways, Sydney.
10 " ...	A carefully selected collection of specimens to illustrate the metallurgy of antimony, as carried on at Corangula. The collection includes samples of the ores and products of each operation.	Mr. E. H. Becke, Corangula, near Kempsey, N.S.W.
	Two large frames, containing numerous samples of Messrs. Bartleet's manufactures, including needles of all kinds, fish-hooks, lines, floats, artificial bait, &c., also a series of specimens to illustrate the manufacture of a needle.	Messrs. W. Bartleet & Sons, Red-ditch.
13 " ...	Two models of patent pianoforte mechanism (Messrs. Brinsmead and Sons), viz., "Simplex check action" and "Perfect check repeater action."	Messrs. J. Brinsmead & Sons, London.
	Piece of fossilized wood from New Zealand ...	Mr. John Fagan, Sydney.
14 " ...	Two ancient coins (Greek), found at Kustingie, on the Black Sea.	Mr. Wm. Forbes, Sydney.
	An exhibit of cocoons and raw silk, and of manufactured silk twist, in show-case complete.	Mr. C. A. Rickards, Leeds, through Mr. James Wilson, Sydney.
22 " ...	Twenty-five specimens of Ceylon timbers ...	Professor Liversidge, F.R.S.
23 " ...	An exhibit of damasks, brocades, silk and woollen fringes, woollen trimmings, silk cords, tassels, &c., also samples of mirror and plate glass, &c.	Messrs. Solei, Hebert, & Co., Genoa, through Messrs. Moro & Co., Sydney.
29 " ...	Series to illustrate all the stages in the manufacture of various kinds of combs, as under, viz., side, braid, and dressing combs (white and stained); showing the horn in its various stages up to the finished article.	Mr. C. E. Wigzell, Sydney.
18 June ...	Trawl net and gear, made by Knowles & Knowles, of Hull. Exhibited at the London Fisheries Exhibition of 1883. Length of beam, 45 feet; length of net, 85 feet. Used by vessels of 70 tons register in the North Sea fisheries.	The Commissioners for Fisheries of New South Wales.
21 " ...	Sample of wool which caught fire spontaneously on board ship at Brisbane, November, 1878.	Mr. Henry Small, Sydney.
	Miscellaneous articles from the South Sea Islands, India, Solomon Islands, &c., e.g., fishing-rods and hooks, bottle-gourd, walking-sticks, &c.	Mr. John Fagan, Sydney.
24 " ...	Sample of rock from San Christoval, Solomon Islands, also sample of moss from River Earn, Perthshire, Scotland.	Mr. E. P. Ramsay, Australian Museum.
28 " ...	One bronze Chinese coin...	Mr. W. Burrows, Sydney.
5 July ...	Two small specimens of fossil wood from Bundanoon, N.S.W.	Mr. P. Lorking, Sydney.
	Sample of tapa cloth (Fiji), Queensland beans, and Indian silver coins.	Mr. John Fagan, Sydney.
9 " ...	Piece of antimony ore (N.S.W.) ...	Mr. John Mitchell, Bowning.
11 " ...	Rock and mineral specimens (about fifty) from Bowning, near Yass, N.S.W.	Mr. John Fagan.
13 " ...	Sample of crude tortoiseshell from Fiji ...	Mr. E. P. Ramsay, Australian Museum.
15 " ...	Lichen (coralloid) from basaltic rocks in New Zealand	The Baron Ferd. von Mueller, K.C.M.G., F.R.S., Melbourne.
22 " ...	Specimens of timbers from Victoria, New South Wales, Queensland, and Tasmania. (Forty-two specimens.)	Mr. J. Archibald, Curator of the Museum, Warrnambool, Victoria.
23 " ...	Piece of fringe taken from a bed, in Knowlton Hall, Kent, said to have been occupied by Queen Elizabeth, circa 1570.	The Honourable W. H. Marsh, Colonial Secretary, Hongkong.
	Three Hongkong silver coins, of the value respectively of 20, 10, and 5 cents.	

APPENDIX IV—continued.

DONATIONS.

Date.	Articles received.	Name of Donor.
1884.		
1 August	Samples of Italian olive oils, olives, sauces, and wine...	Messrs. Moro & Co., Genoa and Sydney.
2 "	Show-case containing samples of the manufactures of the International Bandage Company, of Schaffhausen, Switzerland, comprising bandages of all descriptions, ligatures, &c. Six live plants of the native tamarind (<i>Diploglottis Cunninghami</i>) from South Queensland.	Mr. Fred. Pluss, Consul for Switzerland at Sydney.
11 "	Cast of armorial bearings (Royal Arms of Denmark)	Mr. F. M. Bailey, F.L.S., Colonial Botanist, Brisbane.
15 "	An exhibit of New South Wales merino wool, yarn, and woollen manufactures, comprising tweeds, buckskins, checks, twills, hair-cords, indigos, cricketing and native brown tweeds (without dye), as shown at the Calcutta International Exhibition	Mr. Samuel Bowles, Sydney. The New South Wales Commissioners for the Calcutta International Exhibition.
19 "	An exhibit prepared at the Government Railway Workshops, Sydney, by Mr. C. Icke, and shown at the Calcutta Exhibition, consisting of antimony ores and metal, phosphor-bronze slide valves, annealed couplings, &c.	The Commissioner for Railways, through the New South Wales Commissioners for the Calcutta Exhibition.
25 "	Sample of pig-iron, which in passing through the cupola furnace had the interior of the bar melted out, leaving an outer shell.	Mr. John Owens, Sydney.
27 "	Cylinder, split, with cap cut off. To complete an exhibit to illustrate the manufacture of sheet glass presented to the Museum by this firm.	Messrs. Chance Bros., Birmingham.
9 Sept.	Two small paintings on Parian marble, by Lansa, of the Acropolis and Parthenon at Athens.	Sir Edward Strickland, K.C.B.
25 "	Ten samples of fine and heavy combing wools, from stud sheep bred by donor.	Mr. G. Clark, East Talgai, Hendon, Queensland.
3 Oct.	Jar of brown glazed ware, in form of pig ... Two specimens of wood from the north coast of Tasmania (<i>Alyxia buxifolia</i>).	Sir Alfred Roberts. Professor Liversidge, F.R.S.
27 "	A valuable collection of American and Indian Cinchona and Cuprea barks. This collection consists of thirty-four choice and carefully selected specimens, accompanied by the fullest particulars.	Messrs. Thos. Whiffen & Co., London, through Mr. A. H. Whiffen, Sydney.
5 Nov.	Piece of glass ($\frac{3}{8}$ " thick), broken by hailstones at Omaha, June, 1871.	Mr. James Stockdale, Omaha, Nebraska, U.S.A.
10 "	One small charcoal filter ...	Mr. John Fagan.
23 "	Five bronze coins (Indian) ...	Do.
25 "	Incrustations on steam boiler ...	Do.
25 "	Six samples of teas from China, Japan, and Ceylon ...	Messrs. Griffiths Bros., Melbourne and Sydney.
3 Dec.	A collection of thirty-five samples of aniline dyes, also specimens of wool and silk yarns dyed with the same. A collection of compounds to illustrate the chemistry of these dyes. Nickel-plated cooking vessels, and other articles ...	Herr K. Oehler Offenbach, Germany, through Mr. C. L. Sahl, Consul-General for Germany, Sydney.
	Samples of ultramarine from the Blaufarbenwerk, Marienberg, Bensheim. Thirty-three hoes of various kinds, used by different nations.	Herren Heitmann & Witte, Iserlohn, Germany, through Mr. C. L. Sahl. Through Mr. C. L. Sahl.
4 "	Four fleeces of high-class wool: one of two-year old wether, three of hoggets. Wool all of twelve months' growth.	The Manager, Wittener Walzwerk Witten a/d Ruhr, Westphalia, through Mr. C. L. Sahl.
17 "	An exhibit of Aligarh (Bengal) pottery, consisting of articles in black, grey, and red ware, e.g., vases, tea-sets, jugs, Pilgrim bottles, water-bottles, plates, &c.	Messrs. Shanahan & Jennings, Garrawalla, Liverpool Plains, through the Wool-classers' Association of New South Wales, Liverpool.
24 "	Samples of wool of merino rams, two of which received 3rd prize at the Northern Agricultural Society's Show, Tasmania. Samples of wool of stud ewes of the Burenda flock ...	The New South Wales Commissioners for the Calcutta Exhibition, 1884. Mr. William Gatenby, Woodbourne, Tasmania. Mr. M. Hood, Burenda, Mitchell, Queensland.

APPENDIX V.

LOANS.

When received.	Exhibit.	Name of Lender.
1884.		
1 Feb. ...	Model (mounted on a table 12' x 6') showing proposed wharfage improvements in Sydney, according to the prize design of Mr. Oscar Schultz, C.E.	The Wharfage Improvement Association, Sydney.
1 May ...	Chemical earthenware, including:—still-head, worm, arms, connectors, receivers, taps, funnels, acid jug, store-jars, plumbago crucibles, &c. Sanitary and domestic appliances, including:—patent manganous filters in various styles, traps, gullies, drain-pipes, closet-pans, hand-pressed bricks for various purposes, &c.	Messrs. Doulton & Co., Lambeth, London.
22 „ ...	Large agate seal (silver gilt mount), large agate bowl, also writing set of original Wedgwood jasper ware with enamelled floral decoration.	Professor Liversidge, F.R.S.
3 June ...	Samples of ornamental glass-ware ...	Mr. F. T. Sharp, Sydney.
26 July ...	One complete set of Tyers' block signalling telegraph apparatus for absolute or permissive block-working of railway traffic. (Sending and receiving apparatus.)	Mr. W. M'D. Courtney, C.E., Sydney.
22 Oct. ...	Fifteen frames of historical art studies, comprising designs from Japanese, Chinese, Persian, Indian, and Italian pottery, metal work, &c.	Mr. Arthur D. Riley, Sydney.

APPENDIX VI.

PURCHASES (Books).

Agriculture.

Library No.

- 564 Artificial Manures. (Ville, translated by Crookes.)
 570 Les Meilleurs Blés. (Vilmorin, Andrieux, & Co.)
 571 Les Plantes Potagères. Do.
 735 Relazione al Ministro di Agricoltura, Industria, e Commercio, Marchese G. N. Pepoli di G. Devincenzi. Londra, 1862.
 756 Guano dissous du Pérou. Guano du Pérou traité par l'acide sulphurique par Ohlendorff & Co. dans leurs usines de Londres, Anvers, &c. (A Handbook of the Paris Exhibition of 1878.) Guano du Pérou et de son emploi. (Dreyfès Frères et Cie., Paris, 1878.)
 776 Observations et Notices sur la valeur des engrais spéciaux. (Salomonson.)
 905 Farm Insects. (Curtis.)
 747 Aperçu de la végétation et des plantes cultivées de la Suède. (Andersson.)

Botany and Materia Medica.

- 794 Fibrous Plants of India. (Royle.)
 739 Practical Hints on the Cultivation of the Flax plant.
 765 Notice sur les Arbres forestiers du Portugal. (Gomes.)
 910 Illustrations of British Fungi. 26 parts. (Cooke.)
 947 Catalogue of the Collections in the Museum of the Pharmaceutical Society of Great Britain. (Holmes.)
 948 Pharmacopœia of India. (Waring.)
 949 Medicinal Plants. 4 vols. (Bentley and Trimen.)
 1030 Flora Australiensis. 7 vols. (Bentham and Mueller.)
 1029 Genera Plantarum. 3 vols. (Bentham and Hooker.)
 867 Elements of Materia Medica. (Pereira.)

Geology and Mineralogy.

- 929 A Catalogue of the Tertiary and Post Tertiary Fossils in the Museum of Practical Geology. London, 1878.
 1031 A descriptive Guide to the Museum of Practical Geology. (Hunt & Rudler.)
 558 Report on the Selection of Stone for building the new Houses of Parliament. 1839.
 799 History and Uses of Limestones and Marbles. (Burnham.)
 773 Notice sur le terrain tertiaire Miocène de Cérise. (Fleche.)
 737 Notes on the Gold of Eastern Canada. Quebec, 1864.
 760 Eaux Minérales de la Hongrie.
 763 Eaux Thermo-minérales de Civita-Vecchia.

Mining and Metallurgy.

- 913 British Mining. (Hunt.)
 779 Notice sur les Houillères de Dombrowa. (Handbook, Paris Exhibition, 1878.)
 769 Notice sur les Houillères de Brandeis-Kladno en Bohême. Vienne, 1878.
 762 Notice sur la Société Anonyme des Houillères de Montrambert. Saint-Etienne, 1878.

Library No.

- 749 Notice sur quelques produits des Tourbières de Fontaine-Lecomte. (Lavigne.)
 560 Percy's Metallurgy. 3 vols.
 1. Silver and Gold. 2. Lead. 3. Fuel.
 886 Steel and Iron. (Greenwood.)
 757 Notes on the Progress of the Iron Trade of Cleveland. (Bell.)
 751 Usines Poutiloff. 1857 to 1870. St. Petersburg, 1871.
 772 Société anonyme des Hauts-fourneaux, Fonderies et Forges de Franche Comté. Besançon, 1878.
 770 Notice sur les Mines, Usines et Domaines du Banat en Hongrie. Vienne, 1878.
 748 Quelques Renseignements sur la fabrication des Fers et Aciers de la Suède.
 780 Sur l'état actuel de l'industrie du fer en Suède. (Akerman.)
 724 Métallurgie du zinc. Nouvelle méthode de traitement direct des minerais de zinc. (Muller.)

Mechanics and Engineering.

- 782 Notice historique sur l'Horlogerie Suisse. Paris, 1878.
 906 Treatise on the Power Loom. (Brown.)
 920 Cotton-spinning; its development, principles, and practice. (Marsden.)
 866 Saw-mills; their arrangement and management. (Bale.)
 559 Spens' Dictionary of Engineering. 5 vols.
 864-5 The Materials of Engineering. 2 vols. (Thurston.)
 Part I. Non-metallic Materials.
 Part II. Iron and Steel.
 565 Limes, Cements, Mortars, &c. (Burnell.)
 939 On Coal; with reference to its Screening, Transport, &c. (Danvers.)
 899 The Development of Armour for Naval Use. (Very.)
 950 Our Sea-marks. (Edwards.)
 531 Turning and Mechanical Manipulation. (Holtzappel.)

Physics, Chemistry, &c.

- 568 Useful information on Electric Lighting. (Hedges.)
 569 The Electric Light for Industrial Uses. (Crompton.)
 800 Incandescent Electric Light. (Du Moncel.)
 15 Treatise on Chemistry. 1 vol. (Roscoe and Schorlemmer.)
 868 Analysis and Adulteration of Foods. (Bell.)
 761 Peinture silicatée à base de zinc: préparation et mode d'emploi. Liège, 1878.

Applied Science and Art.

- 567 Scientific Industries Explained. 2 vols. (Watt.)
 566 Mechanical do. do. 1 vol. (Watt.)
 793 Dictionnaire des Arts et Manufactures et de l'Agriculture (Laboulaye). 4 vols.
 931 The Art of Soap-making (Watt).
 744 Usine à Chaux Hydraulique blutée de Palazzolo sur l'Oglio (Lombardie). Turin, 1867.
 930 A Catalogue of Specimens of Pottery in the Museum of Practical Geology. London.
 777 Doccia. Manufacture Ginori.

Miscellaneous.

- 900 Encyclopedia Americana. Vol. I. (A. Cen.)
 584 Dangers to Health (Teale).
 734 A general description of Indiana.
 733 Canada; her Geographical Position. Quebec, 1860.
 736 Canada; for the information of intending Emigrants.
 745 Notice sommaire sur l'histoire du travail dans le Royaume de Norvège.
 746 Coup d'œil sur les pêcheries en Russie (Danilewsky).
 966 L'Année Scientifique et Industrielle. 1883.

Publications referring to Educational Institutions.

- 768 Organization de l'Instruction publique dans le canton de Vaud.
 771 Quelques documents relatifs à l'organisation pédagogique des Ecoles de la province de Québec.
 742 Exposé de l'état de l'Instruction publique dans le Royaume de Saxe.
 933 Das Hamburgische Museum für Kunst und Gewerbe, Bericht über die Entwicklung der Anstalt seit ihrer Eröffnung am 25 September, 1877, ausgegeben zum 25 September, 1882. Hamburg.
 764 Russie. Ministère de la Guerre. Musée Pédagogique. Paris, 1878.
 785 Programme del Regio Museo Industriale Italiano in Torino per l'Anno Scolastico. 1868 to 1869.
 750 Regio Museo Industriale Italiano Illustrazione delle Collezioni Didattica. Torino, 1869.
 684 Catalogo dei Semi di Pianta Economiche, Regio Museo Industriale Italiano Sezione d'Agricoltura. Torino, 1864.
 759 Institut supérieur de Commerce d'Anvers. Notice sur les collections scientifiques et catalogue général du Musée Commercial. Anvers, 1878.
 741 Exposé de la fondation, du développement et de l'activité de l'Ecole Royale des Beaux Arts et des Métiers à Nuremberg.
 778 Cenni sull'uso e sulle Applicazione del Geodoscopio nell'insegnamento della Geografia di Annibale Fagnani. Mortara, 1877.
 869 Our Schools and Colleges. Vol. I. Boys (De Cartaret-Bisson).
 870 " " Vol. II. Girls
 1021 Irish Educational Directory for 1884. Edited by E. Ellis.

Library No.

- 775 Publications in regard to the Educational Organisations instituted by Messrs. A. Chaix & Co., of Paris, for the welfare of their employés :—
1. Règlement pour un intérêt de Participation dans les Bénéfices et une Caisse de Prévoyance et de Retraite.
 2. Notice sur Ecole Professionnelle des Jeunes Typographes.
 3. Compte rendu de la distribution des Prix aux élèves de l'école professionnelle. Réunions 1874 à 1876.
 4. Mesures contre les Accidents et Institutions de Prévoyance.
 5. Participation et Caisse de Prévoyance. Réunion du 5 Avril, 1874.
 6. Participation et Caisse de Prévoyance et de Retraite. Troisième et Quatrième Répartitions Annuelles.

Reports.

- 783 Rapport du Directeur de l'Observatoire cantonal de Neuchâtel sur le concours des chronomètres en 1877.
- 802-863 Commercial Reports from Her Majesty's Consuls. 62 volumes. 1862 to 1883.
- 961 Commercial Tariffs and Regulations. Resources and Trade of the several States of Europe and America. 8 vols.
- 962 Reports of Her Majesty's Secretaries of Embassy and Legation on the Manufactures and Commerce of the Countries in which they reside. 18 vols.
- 984 Reports on Pollution of Rivers. 9 vols. (dating from 1866 to 1874.)
- 433A Report of the 53rd Meeting of the British Association for the advancement of Science; held at Southport, in September, 1883. London, 1884.

Exhibition Literature.

- 1851 Brussels. Exposition Générale des Beaux-Arts. Catalogue.
- 1853 Turin. Third Exhibition of Ornamental Plants and Horticulture. Catalogue.
- 1855 Paris :—
1. Catalogue des produits naturels, &c., présentée par le Royaume de Sardaigne.
 2. Rapports du Jury Belge.
- Enseignement public. Géométrie descriptive.
- 1855 Turin Agricultural Exhibition.
- Catalogo delle piante e di altri Oggetti presentati all' Esposizione.
1856. Turin Horticultural Exhibition :—
- Discours prononcé par le Président de l'Académie Royale d'Agricoltura.
- 1858 Turin. Sardinian Exhibition.
- Relazioni dei Giurati e Giudizio della R. Camera di Agricoltura e Commercio.
- 1861 Florence.—Italian Industrial and Fine Arts Exhibition.
1. Relazione dei Giurati. Class I. A xii.
 2. Relazione della classe V, Alimentazione e Igiene.
 3. Relazione dei Giurati, Industria, Mineraria e Metallurgia. (Class VI, sec. 2.)
 4. Atti ufficiale della Esposizione Italiana Consigli dei Giurati.
- 1862 London International Exhibition :—
1. Jurors' Reports. Class XVI.
 2. Report of Her Majesty's Commissioners of Customs on Results obtained from testing some Wines exhibited.
 3. Ceremonial to be observed at the opening.
 4. Industrial Department. Official Catalogue. 3rd edition.

France.

1. Documents et Rapports de l'Exposition.
2. Catalogue des produits Industriels et des Oeuvres d'Art.
3. Catalogue des Arbres Fruitiers et Vignes.
4. Catalogue special (Algérie), accompagné de notices historiques et statistiques.
5. Catalogue des produits des Colonies françaises, &c.

Germany.

Official Catalogue of Mining and Metallurgical Products (Zollverein.)

Hungary.

A few particulars respecting some of the products of Hungary.

Italy.

1. Estratto degli Atti ufficiale del R. Comitato Italiano.
2. Official descriptive Catalogue.
3. Regno d'Italia, Elenco dei premiati.
4. Relazione dei Commissarii speciale, Regio Comitato Italiano dell'Esposizione.
5. Italian-grown Cotton, collected by the Royal Italian Commission.
6. Delle Arti del Disegno e degli Artisti nelle Provinciali dei Lombardia del 1777 al 1862.
7. Relazione al Ministero di Agricoltura Industria e Commercio, Pepoli sull'Industria dei Zolfi.
8. Discorso pronunziato in Bari nel distribuire le Medaglie commemorative per l'Esposizione.
9. Catalogo descrittivo, Mineralogia e Metallurgia.
10. Cenno sulle Ricchezze Minerali dell'isola di Sardegna.

Portugal.

Catalogue des produits minéraux.

Russia.

Official Catalogue.

Sweden.

Catalogue of Works of Industry and Art.

Canada.

- Canada.*
Descriptive Catalogue of economic Minerals, &c.
- United States.*
Official Catalogue.
- Venezuela.*
Catalogue of the articles exhibited.
- India.*
Classified and descriptive Catalogue.
- Ceylon.*
Catalogue of contributions.
- Victoria.*
A few particulars supplementary to the Catalogue of products of the Colony of Victoria.
- South Australia.*
An account of the Colony of South Australia, together with Catalogue.
- Tasmania.*
The Products and Resources of Tasmania. (Whiting.)
1864. Dublin. Royal Dublin Society's Exhibition.
Catalogue of Manufactures, Machinery, and Fine Arts.
1865. Dublin. Industrial and Fine Arts International Exhibition.
1. Official Catalogue, 4th edition.
2. Catalogue of articles from the Royal Collection at Windsor Castle.
- Italy.*
Relazione del Regio Comitato intorno alla Sezione Italiano.
- Canada.*
1. Catalogue of the Canadian contributions.
2. List of articles sent from Sherbrooke, Eastern Township, Canada.
- Victoria.*
Catalogue of products of the Colony of Victoria.
1865. Turin Agricultural Exhibition:—
Catalogo ed elenco dei premiati per l'Esposizione.
1866. Naples Exhibition of Cotton. Catalogue.
1867. Paris Universal Exhibition:—
1. Catalogue Général.
2. Catalogue des produits industriels et des Oeuvres d'Art.
3. Notices sur les Collections, cartes et dessins relatifs au service du corps impérial des Mines.
- Great Britain.*
1. Introduction to the Catalogue of the British Section.
2. Catalogue of the British Section.
- Belgium.*
Catalogue des roches et des produits minéraux du sol de la Belgique.
- Germany.*
1. Amtlicher Special Catalog der Ausstellung Preussens und der Nord-deutschen Staaten.
2. Les exposants du Grand-Duché de Bade et leurs produits.
3. L'industrie de la Bavière à l'Exposition.
4. Die Industrie und landwirthschaft Bayerns.
5. Special Katalog für das Grossherzogthum Hessen.
6. Catalogue descriptif des produits du Wurtemberg.
7. Catalogue des livres exposés à Paris par le Ministre des Cultes, &c., de la Saxe Royale.
8. Bericht über literarische leistungen im Konigreiche Sachsen. 1846-67. (Marbach.)
- Austria.*
1. Katalog der Osterreichischen Abtheilung.
2. Alphabetisches Verzeichniss der Osterreichischen Aussteller.
3. Catalogue spécial de Royaume de Hongrie.
4. La Slavonie; sa production et son commerce.
5. Les Richesses Forestières de l'Autriche et leur Exportation.
- Italy.*
1. Relazione del Commissario regio ed elenco dei Premiati della Sezione Italiana.
2. Del movimento artistico in Bologna dal 1855 al 1866.
3. Catalogue des produits envoyés à l'Exposition par Comité Départemental de la Savoie.
- Portugal.*
Description des Monnaies, Médalles et autres objets d'Art concernant l'histoire Portugaise.
- Russia.*
Catalogue spécial de la Section Russe.
- United States.*
1. Official Catalogue. 3rd Edition.
2. Catalogue of Minerals. Group V. Class 40.
- Canada.*
Esquisse Géologique du Canada.
- Nova Scotia.*
Catalogue of the Nova Scotia Department.
- Brazil.*
L'Empire du Bresil à l'Exposition.

Chili.

Notice statistique sur le Chili et catalogue des minéraux envoyés à l'Exposition.

India.

The Indigenous Drugs of India (descriptive Catalogue).

Cape Colony.

Catalogue of the articles contributed to the Exhibition by the Cape of Good Hope. (Curtey.)

Victoria.

Catalogue of Products from Victoria.

1869. Turin Congresso Pedagogico.

Storia del Lavoro Pedagogico in Piemonte Fino all' anno 1860.

1871. Turin. Catalogo Generale della Esposizione Campionaria dell' Industria.

1875. Viborg Danish Fishery Exhibition. Catalogue.

1877. Oristano (Italy) Agricultural Exhibition, 1877. Catalogo Officiale.

1878. Paris Universal Exhibition :—

1. Catalogue Officiel (in 6 vols.)
2. Exposée sur la semence exposée à l'Exposition.

Great Britain.

1. Catalogue des Colonies Anglaises.
2. Catalogues des objets présentés à l'Exposition par le Ministre de l'Instruction Publique.

Germany.

Ausstellungs-Objecte der K. K. Statistischen Central-Commission.

Austria and Hungary.

1. Notice sur quelques-unes des principales Mines de l'Etat Autrichien.
2. Catalogue de l'exposition des Mines, Usines et Domaines de la Société Autrichienne des Chemins de fer de l'état.
3. Catalogue Spécial de la Section Hongroise.
4. Notice statistique sur les produits agricoles exposés par la Hongrie.

Switzerland.

1. Catalogue Suisse.
2. Catalogue Spécial, Education et Enseignement.
3. Enseignement Secondaire Spécial.

Italy.

1. Italie. Catalogue des Beaux-Arts.
2. Catalogo delle opere pubblicate. Genova, 1878.
3. Sezione Italiana, Catalogo generale.
4. Elenco dei Giurati e dei Premiati.
5. Relazione degli Operai Piemontesi inviati alla Esposizione.
6. Elenchi delle Collezioni agraria e Forestali inviate della direzione dell' agricoltura.

Portugal.

Le Section Photographique du Gouvernement Portugaise.

Russia.

1. Tableaux statistiques de l'Industrie des Mines en Russie, 1868-78.
2. Catalogue spécial du Grand-Duché de Finlande.
3. Catalogue raisonné des Antiquités du Nord Finno-Ougrien.

Sweden.

La Carte Géologique de la Suède ; ses envois à l'Exposition.

Norway.

Catalogue d'appareils d'enseignement pratique, de livres et de matériel d'école pour les différents degrés, &c.

Denmark.

1. Société Danoise du travail domestique.
2. Le Danemark à l'Exposition.

United States.

1. The Catalogue of the United States Collective Exhibition of Education.
2. Catalogue of ores, rocks, and woods, selected from the Geological Survey collection of the State of Georgia, U.S.A.

Canada.

1. Manuel et Catalogue Officiel de la Section Canadienne.
2. List of exhibits in the Canadian Mineralogical Section.

Guatemala.

Notice sur les objets exposés par la République de Guatemala.

San Salvador.

Catalogue des objets exposés par la République du Salvador.

Cape Colony.

Official Handbook of the Cape of Good Hope and South Africa.

1880. Berlin Fischerei-Ausstellung, Offizieller Katalog.

1880. Turin, IV^a Esposizione nazionale di Belle Arti, Catalogo Ufficiale Generale.

1880. Glasgow Naval Exhibition, Lectures and Catalogue.

1881. Paris Exposition Internationale d'Electricité :—

1. Rapports des Membres du Jury, &c. Vol. I.
2. Rapport Administratif. Documents officiels et Pièces annexes. Vol. II.

1881. Milan Esposizione Industriale Italiana del 1881, Le Industrie Meccaniche.
 1882. Nuremberg. Berichte über die Bayerische Landes Industrie Gewerbe und Kunst Ausstellung.
 1882. Moscow Exhibition of Industry and Arts:—
 1. Book of Photographs of the Exhibition.
 2. Bericht über die Nationale Ausstellung, Wien, 1883.
 1883. London International Fisheries Exhibition:—
 1. Conference Reports. 5 vols.
 2. Handbooks. 5 vols.
 3. The Fisheries of the World.
 4. An illustrated and descriptive record of the Exhibition. (Whymper.)
 1883. London Furniture Trades Exhibition. Catalogue.
 1883. London Ecclesiastical and Scholastic Exhibition, Catalogue.
 1883. Huddersfield Technical Exhibition, 1883, Catalogue.
 1883. Cork Industrial Exhibition, Catalogue.
 1883. Boston (U.S.A.) Exhibition:—
 1. Official Catalogue and Art Catalogue.
 2. Illustrated Catalogue of the Art Department in the Foreign Exhibition.
 1883. Amsterdam International Exhibition. Catalogue de la section des Colonies Néerlandaises.
 1883. Regensburg Fisheries Exhibition. Katalog für oberpfälzischer Fischerei Ausstellung.
 1883. Berlin, Das Militär- und Marine-Sanitätswesen auf der Allgemeinen Deutschen Ausstellung für Hygiene und Rettungswesen (Roth).
 1884. London. (Crystal Palace) Industrial Exhibition, Catalogue.
 1884. London. International Health Exhibition, Catalogue.
 1884. Edinburgh. International Forestry Exhibition, Catalogue.
 1884. London. Textile Trades Exhibition, Catalogue.
 1884. London. 5th Annual Building Trades Exhibition, Catalogue.
 1884. Nice. Führer durch die Internationale Ausstellung.
 1884. Bremen. Katalog der Argentinischen Ausstellung.
 1884. Turin:—
 1. Catalogo Ufficiale della Galleria del Lavoro. Sezione XXIV.
 2. Catalogo generale.
 Turin, Annual Fine Arts Exhibition of the Society for the promotion of the Fine Arts:—
 Catalogo degli oggetti d'Arte (1854, 1869, 1877, 1879, 1881.) 5 vols.
 Catalogo dei quadri Esposti nelle Sale della Società promotrice di Belle Arti.

APPENDIX VII.

DONATIONS (Books, Periodicals, &c.)

When received.	Title of Work.	Name of Donor.
1884.		
3 Jan. ...	The Manual Element in Education (Runkle) ...	Messrs. Trübner and Co., London.
5 Feb. ...	1. The Coins of Japan ... 2. Japanese Chronological Tables (Bramsen) ...	Mr. Thomas Macmillan, London.
25 June ...	Plants indigenous in the neighbourhood of Sydney (Woolls).	The Government Printer, Sydney.
17 July ...	Library Aids (Green) ...	Messrs. Trübner and Co., London.
21 " ...	The Minerals of New South Wales (Liversidge) ... The Tin-bearing Country of New England, New South Wales (Wilkinson). Remarks on the Sedimentary Formations of New South Wales (Clarke).	Government Printer, Sydney. " "
2 Aug. ...	The Stanniferous Deposits of Tasmania (Wintle) ... The Therapeutic Gazette, edited by Dr. Wm. Brodie (1883-84.) The Newer Materia Medica ... Descriptive Circulars on New Drugs and Specialities... Patent Medicines... Medical Monographs ...	Mr. George Davis, Detroit, U.S.A. " " " "
8 " ...	Tables for Qualitative Chemical Analysis (Liversidge)	" "
16 " ...	International Exhibition, Calcutta, 1883-84—Complete Catalogue of Awards, with a classified list of the Jurors.	Government Printer, Sydney.
30 " ...	Australian Orchids, in 8 parts (Fitzgerald) ...	The New South Wales Commissioners for the Calcutta International Exhibition.
13 Nov. ...	Orient Line Guide—Chapters for Travellers by Sea and Land (2 copies).	Government Printer, Sydney. Mr. G. Skelton Yuill, Manager in Australia of the Orient line of steamers.
16 Dec. ...	The Needle Region and its Resources, by W. T. Heming (2 copies).	Mr. James Wilson, Sydney.
17 " ...	The Forest Flora of South Australia. Parts I-IV (Brown).	The Government Printer, Adelaide, through the Chamber of Manufactures, Adelaide.

The works enumerated in the following Appendices A to G have also been presented :—

A.—Calendars, Prospectuses, &c. :—

Jahrbuch für das Berg-und Hütten-wesen im Königreiche Sachsen, 1882, 1883, 1884 (2 vols.) Presented by the Director, School of Mines, Freiberg, Saxony.
Massachusetts Institute of Technology. Nineteenth annual catalogue, 1883-4.
Circular of the Pennsylvania State College (1882-3).

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

Classified Catalogue of the books in the Library of the Tokio Educational Museum, 1881.
Do. 1st Supplement, December, 1882. (The above both in English and Japanese).
Presented by the Curator of the Educational Museum, Tokio.
Calcutta International Exhibition, 1883-4.
New South Wales : Official Catalogue of Exhibits from the Colony.
New South Wales : its Progress and Resources.
Presented by the New South Wales Commissioners for the Calcutta Exhibition.
Catalogue of the Library of the Australian Museum.
Presented by the Trustees.
Catalogue of Exhibits in the Raffles Museum, Singapore, 1884.
Presented by Mr. A. Knight, Acting Curator.
Circulars of Information of the Bureau of Education, Washington. Nos. 5 (1881), 2 (1882), 1, 2, 3 (1883), 1-5 (1884).
Answers to Enquiries about the United States Bureau of Education (Warren).
Report of the Commissioner of Education for the year 1882-3.
Presented by the Bureau of Education, Washington, U.S.A.
Suggestions for establishing Popular and Educational Museums. A pamphlet by Thomas Laurie, Esq.
Presented by the Writer.
Handbook for Readers in the Boston Public Library (Boston, 1883).
Presented by the Trustees.

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

The School of Mines, Ballarat. Annual Report, 1883.
Department of Mines, New South Wales. Annual Report for the years 1875 to 1879, 1881 to 1882 (7 vols.).
The Free Public Library, Sydney. Report of the Trustees for the years 1881, 1882, 1883-4.
Report on the Progress and Condition of the Botanic Garden and Government Plantations at Adelaide during the year 1883.
Royal Society of Tasmania. Papers and Proceedings for the years 1882 and 1883.
Public Library, Museums, and National Gallery of Victoria. Report of the Trustees for the year 1883.
Second Report of the Royal Commissioners on Technical Instruction (2 vols.)
Presented by the Agent-General for New South Wales.
Proceedings of the Crystallological Society. Part I, 1877. Part II, 1882.
Tasmania. Salmon Commissioners' Report to 30th June, 1884, to the Parliament of Tasmania.
Presented by the Royal Society of Tasmania.
Annual Reports of Observations on Injurious Insects (1877 to 1883), by Miss E. A. Ormerod.
Presented by the Author.
Seventy-ninth Report of the British and Foreign School Society (London, 1884).
Final Report of the South Australian Institute for the nine months ending June 30th, 1884.
Presented by the Minister of Public Instruction, Sydney.

D.—Patents Literature. Presented by Her Majesty's Commissioners of Patents :—

1. Subject-matter Index of Patents applied for and Patents granted for the year 1880.
2. Alphabetical Index of Patentees and Applicants for Patents of Invention for the year 1882.
3. Subject-matter Index of Applications for Letters Patent for the year 1882.
4. Abridgments of specifications relating to the manufacture of iron and steel. Part I. 1620 to 1866.
Do. Fire-arms, ammunition, &c. (cartridges, projectiles, &c.) 1867 to 1876.
Div. II. Part 2.
Do. Marine propulsion. 1867 to 1876. Part II.
Do. Electricity and magnetism (electric motive power engines, &c.) Div. VI.
Parts 1 and 2. 1837 to 1876.
Do. Watches, clocks, and other time-keepers. Part II. 1867 to 1876.
Do. Weaving. Part II. 1867 to 1876.
Do. Saddlery, harness, stable fittings, &c. Part II. 1867 to 1876.
Do. Unfermented beverages. Part II. 1867 to 1876.
Do. Milking, churning. Part II. 1867 to 1876.
Do. Agriculture. Div. III (agricultural and traction engines).
Do. Tea, coffee, &c. Part II. 1867 to 1876.
5. Alphabetical Index of Patentees and Applicants for Patents of Invention for the year 1883.
Do. for January 1st to 31st, 1884.
6. Subject-matter index of Patents applied for and Patents granted for the year 1881.
Do. do applications for Letters Patent for the year 1883.
Do. do do from January 1st to February 29th, 1884.
7. Alphabetical Index of Patentees and Applications for Letters Patent. January 1st to May 31st, 1884.
8. Subject-matter Index of Applications for Letters Patent. January 1st to June 30th, 1884.

R. 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.:—

American Artisan (Chicago).
 American Bookseller (New York).
 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 Mail (London).
 British Mercantile Gazette (London).
 British Trade Journal (London).
 Builders' Weekly Reporter (London).
 Building World (London).
 Bullettino Telegrafico (Rome).
 Cabinetmaker (London).
 California Architect (San Francisco).
 Chemical Review (London).
 Colliery Guardian "
 Decorator's Gazette "
 Educational Record "
 Engineering "
 Fireman (London).
 Hatters' Gazette (London).
 Horological Journal (London).
 Ironmonger (London).
 Iron (London).
 Iron Age (New York).
 Index Medicus (New York).
 Jeweller and Metal-worker (London).
 Journal of Forestry (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).
 Mechanical News (New York).
 Mechanics (New York).
 Mineralogical Magazine (London).
 Oil and Colourman's Journal (London).
 Paper-makers' Monthly Journal (London), together with the Annual Directory of Paper-makers.
 Paper Consumers' Circular (London).
 Paper-makers' Circular (London).
 Paper Trade Journal (New York).
 Paper Trade Review (London).
 Pottery Gazette (London).
 Printers' Register "
 Plumber and Decorator (London).
 Publishers' Weekly (New York).
 Review of Gas and Water Engineering (London).
 Sanitary Record (London).
 Sanitary World "
 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.).
 Wool and Textile Fabrics (London).

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

Amateur Photographer (London).
 American Exporter (New York).
 Decoration (London).
 Der Deutsche Oekonomist (Berlin).
 Engineering Review (London).
 Implement and Machinery Review (London).
 Index (Boston).
 Journal of Horticulture (London).
 Manufacturer (London).
 Meteorologische Zeitschrift.
 Mining Engineer for Devon and Cornwall (Cornwall)

Monthly

Monthly Magazine of Pharmacy, Chemistry, Medicine, &c. (London).
 Paper-making (London).
 Paper and Printing Trades' Journal (London).
 Printers' Circular (Philadelphia).
 Railroad Gazette (New York).
 Railway Review (Houston, Texas).
 Scandinavian.

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.

G. The following works were collected in Germany at the instance of the Consul-General for Germany in Sydney, Mr. C. L. Sahl :—

Exhibition literature :—

Katalog der Kunst-und Kunst-industrie Ausstellung im Glaspalaste zu München, 1876.
 Kunst und Gewerbe-Ausstellung für das Großherzogthum Baden zu Karlsruhe, 1877. Katalog.
 Allgemeine Gewerbe-Ausstellung der Provinz Hannover Jahr 1878. Officieller Katalog.
 Officieller Katalog der Gewerbe-Ausstellung für das Harzgebiet im Sommer 1879 zu Wernigerode.
 Officieller Katalog der Pfalzgau-Ausstellung zu Mannheim, 1880.
 Special-catalog für Kunst, Kunst-Industrie, und Baugewerbe, 1880.
 Officieller Katalog der Gewerbe-Ausstellung in Düsseldorf, 1880.
 Officieller Katalog der Gewerbe und Industrie-Ausstellung zu Halle a S., 1881.
 Officieller Katalog zur Württembergischen Landes-Gewerbe Ausstellung, 1881.
 Badischen Kunst und Kunst-gewerbe-Ausstellung. Officieller Katalog (in 3 vols).
 Gewerbe-und Industrie-Ausstellung. Officieller Katalog. Breslau, 1881.
 Allgemeinen Land-und Forst-wirthschaftlichen Ausstellung zu Hannover, 16-24 Juli, 1881.
 Situations—Plan. Katalog (in 2 vols).
 Bayerische Landes-Industrie-Gewerbe-und Kunst Ausstellung in Nürnberg, 1882. Officieller Katalog (in 3 vols).
 Officieller Katalog der Mecklenburgischen Landes-Gewerbe und Industrie Ausstellung, 1883, in Schwerin.
 Adresz-buch des Bayerischen Kunst-gewerbe-Vereins in München für das Jahr 1884.
 Verzeichnik der Mitylieder des Vereins für Deutsches Kunst gewerbe in Berlin Ausgabe in April 1884.

Miscellaneous—

Verein für Naturwissenschaft. Section für Hygiene.
 Der Gesundheitszustand der Städte des herzogthums Braunschweig in den Jahren 1878, 1879, 1880, 1881, 1882. Von Dr. R. Blasius.
 Die Schulen des Herzogthums Braunschweig vom Hygienisch-statischen Stand-punkte aus betrachtet. Band XII, Heft 4b; Band XIII, Heft 3. Von Dr. R. Blasius.
 Ueber die sanitätliche Controle der Nahrungsmittel im Herzogthum Braunschweig. Von Dr. R. Blasius.
 Die Trichinosis-Epidemie in Braunschweig im October, 1882. Von Dr. R. Blasius.
 Statut des Vereins für Kinderheilstätten an den Deutschen Seeküsten. Gegründet, 1881.
 Beschreibung der Nutzbaren Cesteine des Großherzogthums hessen. Dr. M. Darmstadt.
 Bericht über die (in Berlin, Amsterdam, &c.) eingeführten Systeme der Städtereinigung.
 Separat Abdruck aus der Deutschen Vierteljahrsschrift für öffentliche Gesundheit-spflege.
 Bericht über die Erste Generalversammlung des Comités zur Errichtung von Kinderheilstätten an der Nordsee. Berlin.

In addition to the above publications, price lists &c. were forwarded from manufacturers in every German state. These catalogues embrace almost every industry carried on in Germany, and amount to several hundreds. Those forwarded by the undermentioned firms, &c., are selected for especial mention on account of their either being works of art, or containing much valuable information :—

Preis-Courant der pianoforte, Fabrik H. Roloff, Neubrandenburg, Mecklenburg.
 Striegel and Leuchterfabrik. Joseph Erbe Schmalkalden, Thuringia. Catalogue.
 A valuable collection of trade literature and statistics of the Bochumer Verein für Bergbau and Gusstahl-Fabrikation, Bochum, Westphalia.
 Werkzeugmaschinen-fabrik. Catalogue. Wagner & Co., Dortmund.
 Thermometer und Glas-Instrumenten-fabrik in Ilmenau in Thuringen. Schulz and Heinz. Catalogue and price-list.
 Horder Bergwerks and Hütten-Verein Hörde Westfalen. Catalogue.

APPENDIX VIII.

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

When received.	Description.
1884.	
19 January ...	Tabular view of the Vegetable Kingdom, arranged according to their Natural Orders. (Stanford). The Cotton Plant and its cultivation. (Reynolds.) Rules for Engine-drivers. (M. P. Bale, C.E.)
20 " ...	In the Italian Language:— Large Wall-maps of Italy, Europe, South America. Wall-maps, photo-lithographed from reliefs of Europe, Asia, Africa, North and South America, Australia, and New Zealand, Italy, Palestine. Relief Maps (in <i>papier mâché</i>) of Italy, Sardinia, Sicily, Oceania. Terrestrial Globe. Celestial Globe. Several series of large Diagrams, illustrating Industrial and Domestic Operations, Natural History, Geography, Astronomy, &c. Large Diagrams (each consisting of sixty sheets) of the Animal, Vegetable, and Mineral Kingdoms, with descriptive hand-books. In the French Language:— Engraved Plans of the Environs of Rome, and of the South-east portion of the Papal States. Diagrams on card-board, as under:— 20 Object Lesson cards, with specimens attached in some instances. 2 Diagrams of poisonous plants. 2 " useful insects. 5 " useful birds. In the German Language:— 4 Diagrams of plant diseases. 22 " economic plants. 52 " structural botany. 24 Zoological Diagrams. 4 Diagrams of human anatomy. 4 " geology and palæontology. 8 " physics. 6 " mechanics. 12 Miscellaneous Diagrams.
5 February ...	(All the above are furnished with descriptive hand-books.) Nine Diagrams, illustrating a practical method of teaching Botany; by Professor Henslow. (Drawn by W. Fitch for the Science and Art Department, South Kensington). Forty-one large Diagrams of Steam and the Steam-engine. Drawn under the Superintendence of Professors Goodeve and Shelley for the Science and Art Department, South Kensington, including diagrams of the engines of the Marquis of Worcester, Savery, Newcomen and Cawley, Trevithick and Watts (both single and double acting); compound cylinder, pumping, donkey, marine, and locomotive engines; working parts of the locomotive, engines for waterworks, steam-valves, Cornish catract gear, Giffard's injector, steam-indicators, governors, connecting rod-ends, parallel motion, pistons, screw-propellers, &c.
17 March ...	Seven Diagrams, prepared by Sir John Anderson for the Science and Art Department, of the lever-wheel and axle, inclined plane, screw, pulleys, &c.
26 May ...	Object Lesson cards, by Messrs. Oliver and Boyd, of the Animal Kingdom (14), Vegetable Kingdom (20), Mineral Kingdom (14). Specimens are attached to each of the cards, which are printed in clear, bold type, and substantially framed. Graphic Tables for facilitating the computation of the weight of wrought iron and steel girders, &c., for Parliamentary and other estimates; by J. H. Watson, M.I.C.E.
	169 Diagrams of Ornament of Textile Fabrics; by Otto Fischbach, with descriptive text.
29 September ...	(These illustrations of ancient and mediæval fabrics are superb.) 120 Diagrams of art metal-work in iron, chiefly from Continental sources.
20 November ...	Table of British Sedimentary and Fossiliferous Strata; by H. W. Bristow, F.R.S. The Description of Life Groups and Distribution; by R. Etheridge, F.R.S.
31 December ...	Four Chromo-lithographic views of Sydney in 1810, with a small coloured Plan, showing settlements in New South Wales in the same year. Diagram, illustrative of the processes in the manufacture of Salt-cake.

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

When received.	Description.	Name of Donor.
1884.		
15 Jan. ...	Military plan of the country around Shanghai ...	Mr. Thomas Hale.
4 Feb. ...	Maps of Rheinprovinz and Westfalen ...	Mr. H. C. Andra, Cobar, N.S.W.
26 Mar. ...	A number of "Food" labels (diagrams), giving the chemical composition and full particulars of over 1,000 food substances of animal and vegetable origin.	The Secretary, Science and Art Department, South Kensington.
	Seven large diagrams of "Food Constituents," showing by means of graduated jars the proximate constituents of milk, cheese, eggs, beer, whisky, &c.	Do. do.
	Fifty placards of animal products ...	Do. do.
2 June ...	The Official Topographical Map of Switzerland (published in atlas form). This magnificent work, prepared under the direction of General Dufour, took 34 years to complete.	The Government of Switzerland, through Mr. Fred. Pluss, Consul for Switzerland, Sydney.
21 " ...	Six photographic views of Sydney ...	Mr. John Fagan, Sydney.
12 July ...	Four photographic views of the Industrial and Technological Museum, Melbourne.	Professor Liversidge, F.R.S.
17 " ...	Book of Plans of South Australia (large folio) ...	Sur.-Gen. of S. Australia.
18 Nov. ...	Two photographs of strata at a coal-mine at Bundanoon, New South Wales.	Mr. W. A. Nicholas, Bundanoon.
3 Dec. ...	International Forestry Exhibition, Edinburgh, 1884 ...	Mr. David Kirkaldy, London.
	Results of experiments to ascertain the resistance to deflection and rupture under a gradually increased bending stress of 12 scantlings of American white oak. By David Kirkaldy.	
	The following were collected by the Government of the Federated States of Germany, and presented through the Consul-General in Sydney:—	Mr. C. L. Sahl, Consul-General for Germany, Sydney.
	A number of large photographs of specimens of art pottery, metal-work, &c., from R. Bechweiler, Hamburg.	Do. do.
	Book of lithographs of machinery from Henschel and Son, Cassel, also loose sheets of calculations.	Do. do.
	Thirty-four photographs of locomotives (in large portfolio) from the same firm.	Do. do.
	Portfolio of lithographs of artistic pottery, including tiles of all descriptions, complete fire-places, &c., from A. Spiermann and Wessely, Hamburg.	Do. do.
	Fourteen diagrams of sections of machinery, &c. ...	Do. do.
	Sixteen diagrams of working drawings of machinery from the Braunschweigisches Maschinenbau, Anstalt.	Do. do.
	A number of small photographs of scientific apparatus from Otto Fennel, Cassel, Germany.	Do. do.

APPENDIX X.
EXCHANGES.

Date.	Description of Exhibit.	From whom received.
1884.		
7 Aug. ...	Three Russian Guns (with bayonets), taken during the Crimean war, carbines, pistols, blunderbuss, rocket-stands, four models to illustrate Japanese costumes, two idols from Ceylon.	The Trustees of the Australian Museum, Sydney.
17 Sept. ...	Truffles, sperm oil, spermaceti, sample of sub-fossil wood from Gulgong (N.S.W.), &c.; also well-rope incrustated with carbonate of lime.	Do. do.
14 Oct. ...	Books as under:— Lexicon Technicum, 2 vols. (Harris), 1725. An illustration of the genus Cinchona, comprising descriptions of all the officinal Peruvian barks (Lambert). Some account of silk in India (Wardle). Hortus Gramineus Woburnensis (Sinclair). Memoirs of the Geological Survey of Great Britain. Description and strength of some Indian and Burmah timbers (Skinner).	Do. do.
18 Nov. ...	Thirteen large Water-colour Paintings of Australian food fishes.	Do. do.
31 Oct. ...	Algemeene Kaart von Nederlandisch Indie (in four sheets). Door S. H. Serné (1879).	Do. do.

APPENDIX XI.

EXCHANGES.

Date.	Description.	To whom sent.
1884.		
13 Feb. ...	Thirty-six photographs of New South Wales scenery ...	The School of Mines, Sandhurst, Victoria.
19 June ...	Italian diagram of Mineralogy, Geology, and Palæontology	School of Mines, Ballarat, Victoria.
25 " ...	A number of vegetable fibres, drugs, gums and resins, dyes, tans, &c.	The Botanic Gardens, Melbourne.
15 Aug. ...	Six live plants of the native Tamarind (<i>Diploglottis Cunninghami</i>).	The Royal Gardens, Kew, London.
29 " ...	Coal fossil (Stem of Endogen, obtained from a coal-mine at Newcastle).	The School of Mines, Ballarat.
13 Nov. ...	Panoramic view of the city of Sydney and Suburbs ...	Messrs. F. C. Calvert & Co., Manchester.

NOTE.—Messrs. Trübner and Co., of 57-9, Ludgate Hill, London, E.C., will receive and forward books, periodicals, price-lists, &c. Exhibits and other goods intended for the Museum should be sent to the care of Mr. J. G. Grose, of 10, Lawrence Pountney Lane, Cannon-st., London, E.C., who will forward them to their destination.

J. H. MAIDEN,
Curator.

