

1883.

NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(REPORT OF THE TRUSTEES, FOR 1882.)

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 their twenty-ninth Annual Report.

1. Throughout the past as in the previous year the Museum has been open to the public daily, with the exception of Mondays, on which it is closed for cleaning purposes; the hours having been on week-days from 10 to 5 in winter and 10 to 6 in summer, and on Sundays from 2 o'clock until 5.

2. The increasing importance of the Australian Museum, and the growing interest of the public in it, are shown by the remarkable increase of 18,446 visitors during the past year; the attendance being 81,596 on week-days, as against 73,995 in 1881, and 52,505 on Sundays, as against 41,660 in 1881, the increase on week-days being upwards of 14 per cent., and on Sundays upwards of 26 per cent.

3. Many valuable and important additions have been made to the Museum by purchase and exchange. Numerous donations also have been received during the year. Particulars of these severally will be found in Appendices IV, V, and VI.

4. Several new show-cases have been fitted up, and specimens are in course of arrangement in them, but many more cases are required. The want of accommodation for the display of specimens is very much felt. Most of those acquired during the year have been unavoidably placed in store until they can be properly exhibited.

5. Application has been made to the Government to consider the necessity of enlarging the Museum buildings. More room is urgently required, not only for purposes of exhibition, but for the office staff and workmen. The Trustees hope that in the course of the year 1883, provision will be made by the Government for rendering available for these purposes the apartments now occupied by the Curator and his family.

6. A catalogue of Australian Stalk- and Sessile-eyed Crustacea, prepared by Mr. Wm. A. Haswell, M.A., B. Sc., has been printed and distributed extensively among various Museums and Natural History Societies; and the work of cataloguing the whole of the Museum collections is being pushed forward as rapidly as possible.

7. Many useful books have been added to the Library, necessitating a considerable addition of book-shelves. The work of arranging, classifying, and cataloguing the volumes is in progress, and will be completed in a few months.

8. The most serious loss ever sustained by the Museum has occurred through the recent destruction of the Garden Palace—the large and varied collection of technological and ethnological specimens, sent there for exhibition, having been totally destroyed by the fire which consumed the building. The Technological Committee lost no time in commencing a new collection; and, having already obtained many ethnological specimens of great interest, they are taking steps to secure as many others as possible. This is a work which admits of no delay, as genuine ethnological examples from the islands are becoming scarcer every day, in consequence of the general spread of trade and civilization through the whole of Polynesia. Suitable accommodation for the display of the technological and ethnological specimens already in hand should at once, if possible, be provided.

9. The most important work carried on by the Trustees during the year has been the Exploration of the Caves and Rivers of Australia. It was continued until the close of December at the Wellington Caves, where the bones of an immense Echidna, and of a large Struthian bird allied to the Emu, as well as some smaller animals of less note, hitherto unknown to science, have been discovered and added to the Museum. Numerous other fossil bones valuable for exchanges with foreign Museums have been obtained. The Exploration of Rivers was conducted by the Assistant Taxidermist in Queensland, where strong hopes of discovering some new ganoid fishes were entertained. A special report of this work, with a list of the specimens procured, will be found in Appendices X and XI.

10. The old By-laws and Rules of the Museum, framed soon after the establishment of the Institution, had long been found unsuited to its enlarged state and wants. A new code therefore was, in the year 1881, compiled by the Trustees, and transmitted to the Minister in charge of this Department, for submission to your Excellency. Being eventually adopted, the By-laws and Rules were returned to the Trustees, approved of, on the 15th day of September last.

11. On the 18th August last the Trustees had the painful duty imposed on them of communicating to the Government the very serious defalcations which they had discovered in the accounts of their late Secretary, amounting to no less than £555 in the whole—of which sum £240 was in the Technological branch of the establishment. This gentleman, having very high testimonials, was selected in November, 1879, out of a large number of candidates; and, up to the time of the discovery mentioned, had discharged his duties with such efficiency and regularity that no suspicion whatever attached to him. The Trustees lost no time in putting the case in the hands of the police; and all available steps have been taken for his arrest, but as yet without success, as he immediately absconded, and the place to which he has escaped has hitherto not been discovered. His successor is a gentleman of considerable attainments and undoubted integrity; but the Trustees have thought it right to obtain security from him (which has been given) in £1,000 for his fidelity. It may be added that, under the new rules, which were not in force in the late Secretary's time, defalcations of any kind will not be practicable.

12. The Trustees have with deep regret to record the death, during the year, of Dr. H. G. Alleyne, President of the Medical Board, an old and valued public officer, and useful fellow-worker as a Trustee of the Museum. His successor in office, Dr. Charles Mackay, takes his place. The Hon. W. A. Brodrigg, M.L.C., was, early in the year, elected to fill the vacancy created by the absence of J. R. Fairfax, Esq.

13. Annexed to this Report will be found the following Appendices:—

- I. Annual balance-sheet.
- II. Attendance of visitors.
- III. Attendance of Trustees.
- IV. List of specimens purchased.
- V. Lists of exchanges.
- VI. List of donations.
- VII. List of specimens collected.
- VIII. List of books acquired.
- IX. Work done by Taxidermists.
- X. Report of the Exploration of Caves and Rivers.
- XI. Lists of the principal specimens obtained at the Caves and Rivers.

The Common Seal of the Museum is affixed by order of the Board, this third day of April, 1883.

(L.S.)

ALFRED STEPHEN,
Crown Trustee and Chairman.

S. SINCLAIR,
Secretary.

APPENDIX I.

BALANCE-SHEET of the Trustees of the Australian Museum for the year ending 31st December, 1882.

RECEIPTS.		£	s.	d.	PAYMENTS.		£	s.	d.	£	s.	d.	
Balance from 31 December, 1881				1,609	15	9	Refunds to Treasury			134	5	8	
The Hon. the Colonial Treasurer—							Curator's Salary	500	0	0			
Curator	600	0	0				Assistant Taxidermist's Salary	150	0	0			
Assistant Taxidermist	150	0	0				Opening on Sundays	200	0	0			
Opening on Sundays	200	0	0				Collection of specimens	206	4	9			
Collection of specimens	300	0	0				Purchase of specimens	399	13	2			
Purchase of specimens	500	0	0				" mammals	2	4	0			
" large mammals	500	0	0				" cases	871	5	8			
" cases	2,000	0	0				" bottles	108	10	7			
" bottles	100	0	0				" books	546	18	3			
" books	500	0	0				Formation of catalogues	501	8	11			
Formation of catalogues	500	0	0				Travelling expenses	58	0	0			
Travelling expenses	100	0	0				Exploration of caves and rivers	580	15	6			
Exploration of caves and rivers	600	0	0				Furniture	80	10	7			
Furniture	100	0	0				Night-watchman						
Night-watchman	100	0	0				Preparation for Fisheries Exhibition	76	15	11			
Endowment for 1882 under Act of Incorporation	1,000	0	0				General Salaries				4,282	7	4
Additional endowment	500	0	0				Lighting	6	7	6	1,194	18	0
							Postage, telegrams, &c.	6	1	1			
				7,750	0	0	Taxidermist's materials	9	17	10			
Formation of a Technological Museum				4,300	0	0	Chemicals	11	16	9			
							Stationery	21	11	3			
							Customs, freights, &c.	68	7	9			
							Ironmongery	51	9	10			
							Insurance	22	10	0			
							Timber	14	5	7			
							Fuel	18	4	0			
							Advertising	6	4	6			
							Sundries	66	10	2			
							Technological Museum				303	6	3
							Defalcations of late Secretary				3,800	0	0
											316	11	0
											£10,031	8	3
							Balance				3,628	7	6
				£13,659	15	9					£13,659	15	9

19th January, 1883.—Examined and found correct.

ROBERT HUNT.
PHILIP GIDLEY KING.

APPENDIX II.

ATTENDANCE OF VISITORS DURING 1882.

	Weekdays	Sundays
January	8,181	4,259
February	5,229	3,644
March	5,903	3,765
April	8,112	5,230
May	6,384	3,799
June	6,528	4,890
July	6,382	6,073
August	6,311	4,873
September	7,033	4,024
October	5,408	3,832
November	6,404	3,155
December	9,721	4,961
	81,596	52,505
Total		134,101
Attendance for 1881—		
Weekdays	73,995	
Sundays	41,660	
Total	115,655	

APPENDIX III.

ATTENDANCE OF THE TRUSTEES DURING 1882.

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	5
The Collector of Customs	0
The Surveyor-General	0
The Colonial Architect	0
The President of the Medical Board	5

<i>Crown Trustee.</i>	
The Honorable Sir Alfred Stephen, C.B., K.C.M.G., M.L.C.	19
<i>Elective Trustees.</i>	
J. C. Cox, Esq., M.D., F.L.S.	22
J. Belisario, Esq., D.D.S.	7
A. Liversidge, Esq., F.R.S., Professor of Geology, Sydney	10
The Hon. Jas. Norton, M.L.C.	15
Alfred Roberts, Esq., M.R.C.S.	8
H. H. B. Bradley, Esq.	10
Robert Hunt, Esq., F.G.S., Deputy-Master, Royal Mint	17
Chas. Moore, Esq., F.L.S.	9
C. Smith Wilkinson, Esq., F.G.S.	14
Alex. Stuart, Esq.	2
The Hon. P. G. King, M.L.C.	7
The Honorable W. A. Brodribb, M.L.C.	11
Number of Board Meetings during the year	26

APPENDIX IV.
LIST OF SPECIMENS PURCHASED.

6 Ptilorhis paradisea.	3 Syngnathus intestinalis.
12 Sericulus.	1 Platax sp.
2 Psophodes.	10 Dascyllus aruanus.
1 Orthonyx spinicaudis, juv.	3 " sp.
2 Eopsaltria australis.	18 Syngnathus intestinalis.
3 " capito.	1 Novacula.
2 Acanthiza citreogularis.	1 Coris sp.
1 Cisticola.	1 " sp.
1 Malurus.	8 " sp.
2 Buceros ruficollis.	2 Genyoroge.
1 Scythrops.	2 Grammistes orientalis.
2 Centropus atra alba, juv.	4 Acanthurus sp.
1 " violacea.	1 Zanclus cornutus.
1 Corvus sp.	1 Nasus litralis.
1 Cactua.	1 Ehippium sp.
1 Lorius hypoenchrous.	2 Chatodon sp.
1 Loriculus tener.	2 " sp.
2 Munia melana.	2 " sp.
1 Hirundo tahauteia.	2 " sp.
2 Pitta novae-hiberniae.	2 " sp.
2 Dicurus lemostictus.	2 " sp.
1 Piezorhynchus verticalis.	1 Chelmo longirostris.
2 Pachycephala melanura.	1 Monacanthus scriptus.
2 Myzomela sclateri.	1 Holacanthus semicircularis.
1 Cinnyrus corinna.	1 Saurus.
3 Monarcha inornata.	2 Caranx.
1 Calornis feedensis.	1 Platax.
1 Halcyon albicilla.	1 Acanthurus.
2 Ceyx sacerdotus.	2 Percida.
3 Tanysepta nigriceps.	8 Apogon sp.
1 Anous leucocapillus.	1 Upeneus sp.
1 " stolidus.	2 Tetradon.
1 Sterna longipinnis.	2 Dascyllus sp.
2 Amaurornis moluccana.	1 Diagramma.
1 Phlogenas johanna.	1 Caesio.
3 Ptilopus richardsoni.	6 Holocentrus sp.
1 " eugenia.	1 Antennarius sp.
4 " johannis.	2 Diagramma.
1 Pomarea ujiensis.	2 Murena.
2 Piezorhynchus vidua.	1 " nebulosa.
2 Calyptorhynchus baudinii.	6 Amphisile scutata.
1 Machterirhynchus.	1 Loligo.
1 Myzomela chloroptera.	4 Erebothis sp.
1 Tephos.	8 Enygrus carinatus.
1 Puffinus brevicaudus.	2 Dipsas sp.
11 Specimens of Antimony.	5 Dendrophis solomonensis.
1 South Sea Canoe	1 Poisonous snake.
1 Wooden god.	1 Amphibena.
1 Pterois.	2 Monitor.
1 Plectropoma semicineta.	1 Grammatophora.
1 Ostracion sp.	1 Gonodactylus graphurus
1 Jules sp.	1 Small Bat.
5 Coris semicineta.	1 Karabidion horridum.
1 Parrot-fish.	3 Zanclus cornutus.
2 Eel-tail-fish (small).	1 Platax sp.
3 Apogon sp.	1 Pterois zebra
1 Eel.	4 Chatodon sp.
1 Monacanthus sp.	1 " ehippium.
2 Pterois zebra.	5 " sp.
1 Scorpena cyanicidium.	1 " strigangulus.
1 " sp.	2 Chatodon mertensii
1 " "	1 Antennarius sp.
1 " "	3 Balistes aculeatus.
1 Diodon.	1 " sp.
3 Serranus.	1 " sp.
16 Balistes aculeatus.	1 Holacanthus sp.
5 Chatodon.	6 " sp.
2 Aconurus sp.	1 Upeneus sp.
2 Sphyrna sp.	2 Serranus sp.
2 Jules sp.	1 Labricthys.
1 Zanclus cornutus.	1 Dascyllus.
1 Genyoroge sp.	1 Novacula.
1 Fistularia.	1 Acanthurus.
	1 Caesio.

List of Specimens purchased—*continued.*

- 4 Genyoroge.
 1 Dascyllus.
 1 Centropogon.
 1 Tetrodon.
 4 Engyurus carinatus.
 1 Dipsas sp.
 2 Sterna fuliginosa.
 1 Anous cinereus.
 1 Procellaria sp.
 1 Limosa uropygialis.
 1 Eurystomus pacificus.
 1 Halcyon sordidus.
 1 Pachycephala gutturalis.
 1 Cuculus flabelliformis.
 1 Anous stolidus.
 1 Platycephalus.
 1 Mugil.
 2 Mugil sp.
 2 Sillago.
 2 " maculata.
 1 Chrysophrys sarba.
 1 " australis.
 2 Caranx georgianus.
 4 Gerres sp.
 1 Arramphus.
 2 Hemirhamphus regularis.
 2 Sphyrena.
 1 Belone.
 1 Seriola.
 2 Therapon cuvieri.
 1 Teuthis.
 4 Monacanthus chinensis.
 2 Triacanthus biaculeatus.
 1 Pionias aruensis.
 2 Apteryx owenii.
 2 Stringops habroptilus.
 1 Callocephalon galleatum.
 1 Cheiloscyllium furvum.
 1 Saurida truculenta.
 1 Mugil grandis.
 1 Cuscus orientalis.
 1 Dactyloptila trivirgata.
 1 Tallegallus fuscirostris.
 1 Gallina sp.
 1 Head-dress of string and feathers of Sericulus aureus.
 5 Mugil.
 19 Jules sp.
 5 Upeneoides.
 6 Sphyrena.
 5 Lethrinus sp.
 11 Serranus.
 9 Balistes.
 6 Lethrinus.
 13 Caranx.
 2 Naseus johnstonei.
 8 Naseus sp.
 2 Tetrodon sp.
 2 Aracana.
 2 Stinging Rays.
 1 Rhinobatus.
 1 Scorpana.
 2 Dog-fish.
 7 Hemiramphus.
 7 Scatophagus.
 2 Labrichthys.
 5 Labrichthys sp.
 2 Arius sp.
 2 Parrot-fish.
 9 Chatodon.
 7 Zanclus cornutus.
 8 " sp.
 5 Coris sp.
 9 Fish (?).
 2 Labrichthys.
 13 Fish (?).
 4 Lethrinus.
 1 Sillago.
 3 Balistes.
 2 Caranx.
 1 Lethrinus.
 6 Fish (?).
 1 Rhipidura tenebrosa.
 1 Pterois zebra.
 3 Cladorhynchus pectoralis.
 1 Plotus novæ-hollandiæ.
 1 Erismatura australis.
 2 Anas nævosa.
 1 Hieracidea orientalis.
 1 Scorpana cardinalis.
 1 Stone-axe Head.
 1 Heterodontus philipi.
 1 Leptoscopus macropygus.
 8 Enoplosus armatus.
 2 Girella tricuspidata.
 8 Pseudorhombus russellii.
 1 Sillago sp.
 5 Pseudorhombus russellii.
 2 Synaptura nigra.
 12 Pseudorhombus russellii.
 1 Prussian carp.
 4 Arnoglossus bleekeri.
 4 Synaptura nigra.
 5 Platypus.
 12 " (skeletons).
 1 Albatross.
 1 Eclectus.
 2 Carpophaga rufigula.
 2 Soles, Synaptura nigra.
 1 John Dorey, Zeus Australis.
 1 Haplodactylus lophodon.
 2 Large Yellow-tail, Caranx declivis.
 1 Sillago ciliata.
 1 Yellow-bellied Perch, Dules auratus.
 1 Therapon macleayana.
 1 Lotella grandis.
 1 Pagrus unicolor.
 2 Otolithus teraglin.
 1 Anas castanea.
 2 Malachorhynchus membranaceus.
 7 Barbed-headed Arrows.
 12 Long Arrows.
 2 Bows.
 1 Club, plaited matting on handle.
 1 " (neddie).
 3 Long-barbed spears.
 1 Shell, Voluta magnifica.
 3 Boomerangs.
 1 Waddie.
 4 Stone Tomahawks.
 4 Stones used for grinding seed.
 2 Stone used for drilling holes.
 1 Collection of Coleoptera.
 1 Samson Fish.
 1 Sea Mullet.
 1 Plotus novæ-hollandiæ.
 2 Sand Flathead, Platycephalus sp.
 1 Carp, Cheilodactylus fuscus.
 4 Yellow-bellied Perch, Ctenolates aurea.
 7 Oligorus macquariensis.
 4 Ctenolates.
 7 Oligorus.
 4 Stone adzes.
 3 Stone fragments.
 6 Ocydromus australis. (Eggs.)
 4 Sea gull's eggs.
 2 Tern's eggs.
 2 Duck's eggs.
 1 Egg, Apteryx owenii.
 1 Ptilopus ujiensis.
 1 Graucalus sp.
 1 Diodon hystrix.
 1 Acanthophis antarcticus.
 1 Platypus.
 2 Geoffroyius heteroclitus.
 2 Trichoglossus massena.
 2 Nasiterna finschii.
 2 Ianthænas philippiana.
 2 Carpophaga rufigula.
 2 " pristinaria.
 1 " brenchleyii.
 2 Turacana crassirostris.
 1 Ptilonopus richardsii.
 2 " johannis.
 1 Macropygia rufocastanea.
 2 Halcyon salamonis.
 2 Philemon sclateri.
 3 Myzomela pulcherrima.
 2 Edoliasoma monotomus.
 2 Pachycephala chrystophora.
 2 Pomarea ujiensis.
 1 Dicurus longirostris.
 1 Sturnoides minor.
 1 Eurystomus crassirostris.
 2 Nycticorax manillensis.
 1 Haliastur leucogaster.
 3 Astur versicolor.
 1 Athene sp., juv.
 2 Halcyon albicilla.
 5 Edoliasoma monotomus.
 5 Sturnoides minor.
 1 Graucalus sublineatus.
 3 Dicurus longirostris.
 2 Nasiterna finschii.
 2 Trichoglossus marguerite.
 4 " massena.
 4 Geoffroyius hecterollites.
 1 Carpophaga rufigula.
 1 Geophilus nicobaricus.
 3 Ianthænas philippiana.
 3 Chalcophaps stephani.

List of Specimens purchased—*continued*.

1	<i>Phlogæas salomonis</i> (type).	4	<i>Pagrus unicolor</i> .
1	<i>Turacæna crassirostris</i> .	3	<i>Platycephalus fuscus</i>
1	<i>Ptilonopus richardsii</i> .	2	<i>Aulopus purpurissatus</i>
1	" <i>johannis</i> .	8	<i>Mugil peronii</i> .
1	<i>Eurystomus crassirostris</i>	4	<i>Mugil grandis</i> .
3	<i>Philemon sclaterii</i> .	3	<i>Temnodon saltator</i> .
1	<i>Myzomela niger</i> .	3	<i>Chrysophrys australis</i> .
1	<i>Tachypetes minor</i> .	2	<i>Temnodon saltator</i> .
2	<i>Herodias jugularis</i> .	4	<i>Gerres</i> sp.
1	<i>Eudromias viridis</i> .	3	<i>Enoplosus armatus</i> .
1	<i>Charadrius longipes</i> .	2	<i>Cheilodactylus fuscus</i> .
1	<i>Bat</i> .	4	<i>Trigla kumu</i> .
1	<i>Palaornis cyanocephalus</i> .	2	<i>Upeneoides</i> sp.
1	<i>Conurus devilei</i> .	3	<i>Sillago</i> sp.
2	" <i>jugularis</i> .	2	<i>Lates colonorum</i> .
1	<i>Pionias menstruus</i> .	1	<i>Acronurus</i> sp.
2	" <i>melanocephalus</i> .	4	<i>Cheilodactylus vittatus</i> .
1	" <i>barrabandi</i> .	1	<i>Therapon macleayana</i> .
1	<i>Chrysotis auripalleata</i> .	4	<i>Girella simplex</i> .
1	<i>Acridotheres fuscus</i> .	1	<i>Lates colonorum</i> .
1	<i>Sturnia pagodarium</i> .	2	<i>Ctenolates flavescens</i> .
1	<i>Lanius nigriceps</i> .	1	<i>Plectropoma cyanostigma</i>
1	<i>Xipholema lamellipennis</i> .	2	<i>Chaetodon strigatus</i> .
1	<i>Toucan</i> .	2	<i>Labrichthys</i> sp.
1	<i>Querula cruentata</i> .	2	<i>Therapon cuveri</i> .
1	<i>Psarisomus dalhousie</i> .	2	<i>Cossyphus gouldi</i> .
1	<i>Dendrocitta rufa</i> .	1	<i>Coris</i> sp.
1	<i>Artamus fuscus</i> .	1	<i>Hemiramphus</i> sp.
1	<i>Irena puella</i> .	1	<i>Latris forsteri</i> .
1	<i>Exfalculatoria chinensis</i> .	1	<i>Olistherops brunneus</i> .
1	<i>Turnix plumbipes</i> .	1	<i>Carcharodon</i> sp., juv.
1	<i>Syrrhaptes</i> sp.	2	<i>Rhinobatus granulatus</i> .
1	<i>Porphyrio martinicus</i> .	1	<i>Caranx declivis</i> .
1	<i>Anas supercilliosa</i> .	2	<i>Zygæna malleus</i> .
1	<i>Procellaria</i> sp.	1	<i>Odontaspis americanus</i> .
2	<i>Ptilorhis paradisæa</i> .	3	<i>Synaptura</i> .
2	<i>Temnodon saltator</i> .	2	<i>Platycephalus fuscus</i> .
2	<i>Synaptura nigra</i> .	6	<i>Upeneus</i> sp.
7	<i>Scorpena cardinalis</i> .	1	<i>Platycephalus</i> .

APPENDIX V.

LIST OF SPECIMENS RECEIVED IN EXCHANGE.

From Dr. J. C. Cox.

Collection of Mammals :—1 species—3 specimens.

From Mr. Bailey.

Collection of Mollusca :—3 species—5 specimens.

From Mr. James Dall.

Ethnological :—1 stone adze.

From M. Paul Bouvier,

Shells :—14 species—20 specimens.

From M. F. Bouvier.

Small collection of Coleoptera :—120 specimens.

From Dr. Hector, Wellington Museum, N.Z.

Birds :—2 species—2 specimens.

From Dr. J. H. Garnier.

Collection of Birds :—128 species—170 specimens.

LIST OF SPECIMENS SENT AWAY IN EXCHANGE.

To the Royal Museum, Berlin (through Professor Bastian).

Ethnological :—77 specimens.

To Professor Ward, Rochester, New York, America.

Collection of Crustacea :—10 species—28 specimens.

Collection of Echinodermata :—39 species—158 specimens.

Collection of Fishes :—9 species—34 specimens.

Collection of Mollusca :—3 species—5 specimens.

(In spirits) :—1 " 20 "

Collection of Mammals :—3 species—3 specimens.

Collection of Birds :—15 species—23 specimens.

Eggs :—4 Bird's eggs.

Birds in Spirits :—48 specimens for skeletons.

Casts of Australian Fossils:—

Radius of Diprotodon, from Darling Downs.
 Fibula „ „ „ „
 Upper Incisors „ „ „ „
 „ „ „ „ Nototherium, New South Wales.
 Atlas vertebra of Diprotodon, from Queensland.
 Portion of Marsupial bone, from Darling Downs.
 Condyle of lower jaw of Diprotodon.
 Femur of large Diprotodon, from Darling Downs.
 Humerus „ „ „ „
 Ulna „ „ „ „
 Tibia „ „ „ „
 Portion of lower jaw „ „ „ „
 „ rib „ „ „ „
 „ upper jaw „ „ „ „
 Complete skull of *Zygomaturus trilobus*.
 Casts of skulls of Tasmanian Natives:—2 casts of Faces (after death).

To the Adelaide Museum, through Mr. Waterhouse.

Ethnological Collection.

1 Chalk image.	1 Head-scratcher.
1 Wooden do.	1 Ornamental gourd for holding lime.
1 Paddle.	2 Cocoa-nut Spoons.
4 Wooden spears.	9 Greenstone Adzes.
1 Disc-shaped Club.	2 Greenstone Meri.
2 Stone Clubs.	1 Flat-carved Baton.
3 Bows.	1 Oval-carved Baton, club-shaped.
2 Bundles of Arrows.	1 Stone net-sinker.
1 Drum.	3 Fern-beaters.
1 Bamboo Pipe.	1 Flax-beater.
4 Adzes.	1 Carved wood flat Baton.
6 Stone Axes.	New Guinea Club of dark Greenstone.

To Baron von Hügel.

2 Large Rails, "*Ocydromus sylvestris*."

To the Hobart Museum, through James Barnard, Esq.

Collection of Foreign Birds:—94 species—108 specimens.
 Collection of Australian Birds:—99 species—121 specimens.

To A. J. Campbell, Esq.

Bird's Egg:—1 Egg, "*Casuarus bennettii*."

To the Japanese Museum.

Collection of Shells:—121 species—286 specimens.
 Collection of Crustacea:—34 species—73 specimens.

To R. Hungerford, Esq.

Collection of Shells:—102 species—235 specimens.

M. Paul Bouvier.

Collection of Shells:—27 species—59 specimens.

To the Berlin Museum, through Professor Reuleaux.

Collection of Echinodermata:—Dry Spems.—14 species—43 specimens.
 „ „ „ Spirit „ 11 species—55 specimens.

To Dr. J. C. Cox.

Collection of Mollusca:—2 specimens of Oysters.
 „ „ 6 „ *Helicaria sophie*.
 „ „ 1 Fossil *Bulimus*, from Lord Howe Island.

To the Brussels Museum.

Collection of Mammals:—Dry, 21 species—31 specimens.
 „ „ „ Spirit, 14 species—29 specimens.
 Collection of Birds:—29 species—45 specimens.
 Collection of Skeletons:—9 species—13 specimens.
 Collection of Fishes:—104 species—187 specimens.
 Collection of Freshwater Fish:—11 species—36 specimens.
 Collection of Crustacea:—47 species—235 specimens.
 Collection of Isopoda:—11 species—48 specimens.
 Collection of Echinodermata:—10 species—51 specimens.
 „ „ „ Dry specimens, 14 species—124 specimens.
 Collection of Reptiles:—22 species—84 specimens.

To C. H. Hartmann, Esq.

Collection of Shells:—102 species—290 specimens.

To the Turin Museum, through Count Salvadori.

Collection of Birds:—28 species—51 specimens.

FISHES—continued.

	DONOR.
3 Fishes—Opisthognathus	Mr. J. Ireland.
1 Cat-fish—Cnidogobius megastoma	Mr. A. D. Taylor.
1 Box-fish—Aracana lenticularis	Mr. St. Mountcastle.
1 Cestracion philippi	Mr. J. J. Josephson.
1 jaw Galeocerdo rayneri	
1 Trigla kumu	Master W. Stephens.
1 Atypichthys strigata	
2 Red Bream—Pagrus unicolor	Inspector Seymour.
2 Galaxias coxii	Mr. A. S. Wilson.
1 Shark—Crossorhinus dasygogon	Mr. F. Summers.
2 Cod-fish—Oligorus macquariensis	Mr. K. H. Bennett.
1 Red Rock Cod—Sebastes sp.	
1 Box Fish—Ostracion cubicus	Captain Braithwaite.
1 Flounder—Rhomboidichthys pavo	
2 Herrings—Clupea sp.	
1 Flying Gurnard—Trigla polyommata	Mr. W. A. Haswell.
1 Perch—Plectropoma ocellata	Mr. John Douglas.
1 Parrot-fish—Labrichthys gymnogenys	Mr. W. S. Reed.
1 Aracana lenticularis	Mr. G. H. Robinson.
1 Pipe-fish—Syngnathus sp.	Mr. H. Ackland.
1 Box-fish—Aracana lenticularis	
2 Sweeps—Scorpius equipennis	Dr. W. Williams.
1 Caranx declivis	
1 Sphyræna obtusata	Mr. W. Wenham.
1 Tetradon—Tetradon virgata	Miss Evans.
1 Pipe-fish—Fistularia serrata	Mr. Rice.
1 Sucker-fish—Echeneis remora	Mr. G. H. Robinson.
1 Egg and young of Heterodontus galeatus	Mr. H. Breakwell.
1 Coris sp. nov.	Mr. Ireland.
3 Box-fishes—Aracana lenticularis	Mr. Jas. O'Hara.
1 Box-fish—Aracana lenticularis	Mr. J. W. Clarke.
1	Mr. H. Vale.
1 Flying Gurnard—Trigla kumu	Mr. H. Codell.
1 Trachichthys jacksonensis	Inspector Seymour.
14 Salmon Trout—Arripis salar	
1 Angel Shark—Squatina angelus	
1 Monacanthus ayraudi	Nimrod Fishing Club.
1 Plectropoma annulatum	
1 Cossyphus unimaculatus	
1 Salaria sp.	Mr. W. R. Young.
1 Plectropoma semicinctum	Mr. Taylor.
1 Tetradon sp.	Mr. J. Dawson, senior.
1 Glaucosoma scapularis	Inspector Seymour.
4 White Travalley	
1 Large Eel	Commissioners of Fisheries.
1 Pig-fish—Cossyphus unimaculatus	Mr. Martin Begg.
1 Loligo	Mr. Richd. N. Webster.
1 Porcupine Fish—Tetradon sp.	Mr. R. S. Taylor.
1 Ostracion cornutus	
1 Lotella grandis	Dr. Reed.
1 Flying Gurnard—Trigla kumu	Mr. Geo. Taylor.
2 Striped Soles—Solea microcephala	Mr. Evans.
1 Plectropoma semicincta	Mr. H. Ackland, junior.
1 Plesops bleckerii	Mr. W. Gardiner.
2 Eñoplosus armatus	Mr. W. Evans.
1 Olistherops brunneus	Mr. Ed. Rice.
1 Tretodon virgatus	Dr. J. C. Cox.
2 Flying Gurnard—Trigla kumu	
1 Large Sun-fish—Orthogoriscus mola	Mr. Conelley.
1 Amphisile sp.	Mr. Geo. Thom.
1 Leather-jacket—Monacanthus ayraudi	Dr. Williams.
1 Ostracion concatenatus	Mr. F. W. Robinson.
1 John Dorey—Zeus australis	Hon. Wm. Macleay.
1 Shark—Heterodontus galeatus	Mr. Ireland.
1	
1 " " phillipi	Dr. W. Williams.
1 Dicotylichthys punctulatus	

REPTILES.

3 Lizards—Lialia burtonii	Mr. Jackson.
3 Snakes	
1 Death Adder—Acanthocheilus antarctica	Mr. Thos. Nagle.
1 Young Snake—Hoplocephalus curtus	Mr. C. Lewis.
1 Brown Banded Snake—Hoplocephalus curtus	Mr. Ed. Hoken.
1 Diamond Snake—Morelia spilotes	Capt. J. Grandi.
1 Lizard—Phyllurus platurus	Mr. Henry Grace.
1 Snake	Mr. Jabez Joils.
1 Typhlops ruppellii	Mr. E. M. Hunt.
1	Mr. P. R. Gowing.
1 " "	
1 Young Hoplocephalus variegatus	Mr. Thomas Hamley.
1 Gecko—Phyllurus platurus	
1 Diamond Snake—Morelia spilotes	Mr. G. Whitlaw.
1 Gecko—Phyllurus platurus	Mr. W. Lucas.
1 " " Phyllurus sp.	Mr. Richd. Nancarrow.
1 Green Lizard—Chloroscartes sp.	Mr. C. F. Sahl.
1 Brown Banded Snake—Hoplocephalus curtus	Mr. Jno. Purcell.
1 Lace Lizard—Hydrosaurus varius	Mr. J. Condon.
2 Spine-tailed Lizards—Egernia cunninghami	
5 Grammatophora barbata	
1 Hydrosaurus varius	
1 Trachydosaurus asper	Mr. K. H. Bennett.
2 Hinulia taniata	
2 Hinulia sp.	
3 Geckos	
1 Tortoise—Chelodina longicollis	

REPTILES—continued.

1 Skull of large Luth— <i>Dermatochelys coriacea</i>	Mr. W. E. Shaw.
1 Diamond snake— <i>Morelia spilotes</i>	Mrs. A. King.
2 Skins of snakes— do do	Mr. Ebbelwhite.
1 Gecko— <i>Phyllurus inermis</i>	Mr. A. Telfer.
1 Lizard— <i>Grammatophora barbata</i>	Mr. Morgan.
1 Sea Turtle— <i>Chelonia viridis</i>	The Secretary, Zool. Soc. N.S.W.
1 Diamond snake— <i>Morelia spilotes</i>	Mr. W. Harper.
1 Ringed snake— <i>Vermicella anulata</i>	Mr. Davies.
1 Diamond snake— <i>Morelia spilotes</i>	Mr. Abraham.
1 Horned toad	Mr. Richd. N. Webster.
2 Frogs— <i>Limodynastes dorsalis</i>	Dr. H. Blaxland.
1 Small snake— <i>Typhlops</i> sp.	Mr. Thos. W. Platt.
1 Large lizard— <i>Hydrosaurus gigas</i>	Mr. J. S. Sledge.
1 Snake— <i>Hoplocephalus curtus</i>	Mr. J. H. Cardew.
1 Lizard— <i>Pygopus lepidopus</i>	} Mr. G. H. Barrow.
1 Snake— <i>Brachysoma diadema</i>	
1 Do do	Mr. Gazzard.
1 Lizard— <i>Egernia cunninghamii</i>	Mr. H. Newcombe.
1 Do — <i>Pygopus</i> sp.	Mr. A. Weary.
1 Flat-tailed lizard— <i>Hemidactylus</i> sp.	Mr. A. J. Leeke.
1 Lizard— <i>Grammatophora cristata</i>	Mr. H. J. Ackland.
1 Gecko— <i>Phyllurus inermis</i>	Mr. Lea.
1 Brown snake— <i>Hoplocephalus curtus</i>	Mr. John Stuart.
1 Black snake— <i>Pseudechis porphyriacus</i>	Mr. J. H. Shaw.
1 Lizard— <i>Pygopus lepidopus</i>	Mr. J. W. Farrar.
1 Black snake— <i>Pseudechis porphyriacus</i>	Mr. H. Melville.
1 Sea-snake	Mr. Chilcott.
1 Lizard— <i>Hydrosaurus varius</i>	Dr. J. C. Cox.
1 Lizard	Monsieur E. Lacomme.
1 Red-capped snake— <i>Brachysoma diadema</i>	Mr. J. D. Hamilton.

MOLLUSCA.

1 <i>Onychoteuthis banksii</i>	Captain Goddard.
1 Octopus	Mr. M. Asher.
8 Pteropods (<i>Hyalea</i>)	} Dr. H. B. Guppy.
6 <i>Cleodora</i>	
Eggs of a Cuttle-fish— <i>Sepia</i> sp.	Mr. Granthy Fitzhardinge.
1 Large <i>Dolabella</i> — <i>Dolabella rumphii</i>	Captain Gibson.
2 <i>Pecten fumatus</i>	Mr. W. Richardson.
1 Octopus	Mr. R. Cameron.
3 <i>Pinna</i>	The Rev. Mr. Gill.
12 <i>Trivia australis</i>	} Miss Emma Fairecloth.
3 Do do	
1 Nudibranchiate mollusca	Mr. John Cummings.
1 Oyster— <i>Ostrea edulis</i> , var.	Mr. Bailey.
1 Octopus	Mr. John Berch.
3 species, 250 specimens freshwater shells	Mr. J. A. Thorpe.
1 Octopus	Mr. R. Cameron.
1 Do	Mr. E. T. Foley.

ARACHNIDA.

1 Spider— <i>Nephila</i> sp.	Mr. A. Clarke.
1 Do — <i>Gasteracanthus</i> sp.	Miss B. de F. Spencer.
1 Do — <i>Mygale</i> sp.	Mr. J. W. Bardsley.
1 Do — <i>Gasteracanthus</i> sp.	Mr. E. Burns.
1 <i>Gasteracanthus</i> sp. (black)	Master W. Stephens.
1 Spider— <i>Epeira</i>	Mr. Frank Diles.
1 Do — <i>Tholia</i> sp.	Mrs. Rogers.
1 Do — <i>Tarantula delena</i>	Master E. Ramsay.

CRUSTACEA.

10 Freshwater prawns— <i>Palaemon</i> sp.	Master A. B. Cox.
1 Freshwater crayfish— <i>Astacopsis serrata</i>	Mr. E. M. Stephens.
3 <i>Remipes testudinarius</i>	Captain Brathwaite.
Several freshwater cray-fish— <i>Astacopsis</i>	Mr. K. H. Bennett.
1 Tree-crab— <i>Birgus latro</i>	Mr. Adet.
Small collection of Crustacea	Mr. Bailey.
16 Crabs	} Mr. Lindsay Thompson.
5 Star-fish	
1 Cuttle-fish	Mr. Woodbridge.
2 <i>Phyllosoma</i> — <i>Ibacus</i> sp.	Mr. H. Newcombe.
1 <i>Palinurus huegeli</i>	Mr. Fitzhardinge.
1 Crab— <i>Hyastenus diacanthus</i>	

ECHINODERMATA.

6 Echini— <i>Strongylocentrotus erythrogrammus</i>	Mr. Jabez Joils.
1 Star-fish— <i>Astropecten</i>	Mr. J. Brazier.

INSECTA.

1 <i>Podacanthus typhon</i>	Mr. R. Bonsfield.
4 Chrysalides of <i>Callypteryx collesii</i>	Mrs. Selkirk.
3 Cocoons of <i>Antherea eucalypti</i>	Master W. Stephens.
10 Beetles—6 <i>Buprestida</i> , 4 <i>Schizorhina</i>	Mr. J. Morrison.
1 Moth— <i>Noctua</i> sp.	Mr. A. Jackson.
1 Moth	Mr. C. Fuller.
1 <i>Phasma</i>	Mr. W. H. Paterson.
1 <i>Podacanthus</i> sp.	Dr. H. Blaxland.
Larva of <i>Sphinx oldenlandii</i>	Mr. F. Schweigert.
1 Leaf-insect— <i>Acrophylla</i> sp.	Mr. W. Bullerant.
1 Do — <i>Trigonoderus childreni</i>	Master W. J. J. Eaker.
1 Moth— <i>Pielus</i> sp.	Mr. ———
2 <i>Locusta</i> sp.	Mr. Adet.
1 Caterpillar	Mr. H. G. Ward.
1 centipede	Mr. Robt. Thain.

DONOR,

INSECTA—continued.

1 centipede	DONOR.
1 moth	Miss Banning.
1 grub, larva of <i>Anthera eucalypti</i>	Mr. G. H. Barrow.
1 centipede, <i>Heterostoma sulcidens</i>	Mr. Thos. W. Platt.
1 moth	Mr. G. H. Barrow.
1 beetle, longicorn	Mr. J. Kirke.
A few beetles	Mr. A. H. Phillips.
Larvæ of <i>Pielus swainsonii</i>	Mr. W. Kloster.
1 Phasma	Mr. V. Walch.
1 <i>Extatostoma tiaratum</i>	Mr. J. White.
1 moth, <i>Zenzero</i> sp.	Mr. Sydney Hyland.
Nest of a hornet	Mr. J. Dalgarno.
1 longicorn	Mr. H. Green.
2 scorpions	Mr. J. P. Thompson.
1 phasma	Master E. Ramsay.
	Mr. Wenholz.

GEOLOGICAL SPECIMENS AND FOSSILS.

1 fine specimen of Dendritic markings	Mr. W. Blunden.
1 piece of iron pyrites from the Diamond fields in South Africa	Mr. A. W. Baker.
Portion of lower jaw of <i>Diprotodon</i> found in well-sinking near town of Molong, "Boree Hollow" about 22ft. from surface on level ground.....	Dr. Andrew Ross.
2 specimens tertiary leaves in magnesium clay	} Mr. H. L. Steel.
3 " silicified "	
2 silicified rocks	
2 specimens—porphyritic basalt	} Prof. Liversidge.
1 specimen of coal from Labuan, Borneo	
Specimens of copper ore from New Guinea	} Rev. J. King.
1 piece of iron pyrites from Queensland.....	
Specimen of <i>Globigerina</i> Oose from the Atlantic, 2,400 fathoms	Mr. A. S. Milnes.
1 block of obsidian or volcanic glass from the Admiralty Islands.....	Commander Maturin, R.N.
1 piece of Noble opal	Mr. J. Reedford.
Specimen of fossil from Hunter River Gold-fields—Vertebraria.....	Hon. Alex. Stuart.
Portion of lower jaw of a <i>Macropus</i>	Mr. Wm. Monney.
Brown hematite (iron ore) in heavy spar—sulphate of baryta	Mr. S. Hall.
Gypsum and white clay, found about 50 miles back from Wilcannia (on the Darling, N. side.)	Mr. J. W. G. Cox.
Collection of minerals (small).....	Mr. Sullivan.
" "	Mr. H. J. Young.

ETHNOLOGICAL AND HISTORICAL SPECIMENS.

A stone hatchet from the Fish River	Mr. K. H. Bennett.
Siamese writing on pandanus leaves.....	Mr. Sydney Burdekin.
A collection of implements used by blacks in Northern Queensland, nine stone implements and ten other articles	Mr. Dunlop.
1 French copper coin, Louis XVI.....	} Mr. Bettridge.
1 Turkish "	
1 coin ($\frac{1}{2}$ franc).....	Mr. Richardson.
1 Swedish coin ($\frac{1}{4}$ th of a penny)	Mr. Carl Fernsten.
1 Fijian arrow (supposed to be poisoned)	Mr. H. A. Ferslev.
1 blunderbuss	Mr. H. Small.
1 iron pipe from Sweden	Mr. Carl Fernsten.
2 stone tomahawks found at Balmain, 5 ft. below the surface of soil	Mrs. Jane Holland.
1 silver coin, Queen Elizabeth, 1582	Mr. H. B. Curlew.
1 torch of resin and alcerite nuts from the Duke of York Islands.....	Dr. J. C. Cox.
1 stone tomahawk	Mr. Sullivan.
Small collection of Solomon Island native weapons	The Officers H.M.S. "Lark."
Small collection " " "	Inspector Lloyd.
1 piece of silk cloth.....	Mr. C. Allport.
2 clubs	Mr. Henry Small.

ZOOPHYTES.

A coral	Mr. Jabez Joils.
A large branching gorgonia	Rev. W. W. Gill, B.A.
Fresh-water sponge	Professor Liversidge.
Large piece of gorgonia	Dr. J. C. Cox.
6 <i>Virgularia</i> sp.....	Mr. W. A. Haswell.

ANNELIDA.

1 sea-worm— <i>Eunice gigas</i>	Master C. Sedgwick.
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LIBRARY.

A paper by Professor Owen on some fossil remains of a gigantic land-lizard— <i>Megalania prisca</i> , from Australia.....	Mr. J. J. Fletcher.
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APPENDIX VII.

LIST OF SPECIMENS COLLECTED BY THE MUSEUM EMPLOYEES.

By J. A. Thorpe, Taxidermist.

Collection of Birds:—32 species—64 specimens.
Collection of Fish:—1 species—1 specimen.

By A. Morton, Assistant Taxidermist.

Collection of Fish:—47 species—120 specimens.
Collection of Birds:—1 species—1 specimen.

By J. A. Thorpe and K. H. Bennett.

Collection of Birds:—17 species—47 specimens.

By J. A. Thorpe and J. Brazier (Port Stephens).

Collection of Fish :—15 species—24 specimens.
Collection of Birds :—10 species—17 specimens.
Collection of Mammals :—1 species—1 specimen.

By E. P. Ramsay, Curator.

Collection of Birds :—3 species—3 specimens.
Collection of Sponges :—1 species, 1 specimen.

By H. Barnes, Articulator.

(From Wellington Caves, N.S.W.)

Collection of Fossils :—

2 Lower rami of Thylacoleo.
2 Right lower rami of Thylacoleo.
1 Ulna of Thylacoleo.
1 Radius of Thylacoleo.
Portion of pelvis of large Kangaroo.
" " " " " "
Portion of radius of large Kangaroo.
" " " " " "
Third toe-bone of Kangaroo.
Right incisor of Kangaroo.
Rib of Diprotodon.
Ulna of Diprotodon.
End of humerus of Wombat.
Humerus of Thylacinus.
Portion of ulna of Thylacoleo.

Femur of Thylacoleo.
Portion of pelvis of Thylacoleo.
" " " " " "
Portion of lower jaw of Kangaroo, Procoptodon.
Right upper incisor.
Left upper incisor.
6 Incisors.
3 Claws of Thylacoleo.
Vertebra of Lizard.
2 Ribs of Lizard.
Portion of upper jaw of Kangaroo.
Toe-bone of Kangaroo.
Molar-tooth of Kangaroo.
Pelvis of Kangaroo.

Specimens obtained with the trawl in Port Jackson.

Syngnathus cinctus.
4 Diadema sp.
2 Lepidotrigla papilio.
Hippocampus novæ-hollandiæ.
Ostracion sp.

Lophorneites sp. nov.
3 Europhus sp.
2 Hypnos subnigrum.
2 Monacanthus sp.
2 Cnidoglanis sp.

APPENDIX VIII.

LIST OF BOOKS RECEIVED IN THE MUSEUM LIBRARY DURING 1882.

1. PERIODICALS.

Transactions of the Zoological Society, vol. xi, part 6.
Proceedings of Zoological Society, 1876, part 1, 1881, part 4, 1882, parts 1, 2.
Transactions of the Linnean Society, Zoology, vol. ii, parts 3, 4.
Transactions of the Entomological Society, 1881, parts 4, 5, 1882, parts 1, 2.
Journal of the Geological Society.
Proceedings of the Geologists' Association, vols. vi, vii.
Geological Magazine, Nov., 1881, to Sept., 1882.
Annals and Magazine of Natural History, Dec., 1881, to Sept., 1882.
The Ibis, Oct., 1881, to July, 1882.
Nature, Nov., 1881, to Oct., 1882.
The Athenæum, Nov. and Dec., 1881.

Philosophical Magazine, Dec., 1881.
Comptes Rendu, 1881 and 1882 to Aug.
Journal des Conchologie, Tome xxi, xxii, No. 1.
Bulletin de la Societe Imperiale des Naturalistes, 1871, parts 1, 2, 3.
Zoologischer Anzeiger, Nos. 94 to 114.
Zeitschrift für Wissenschaftliche Zoologie, Aug. 1882.
Archiv für Naturgeschichte.
Mittheilungen aus der Zoologischen Station Zu Neapel, 1881.
New Zealand Journal of Science, 1882.
Hewitson's Exotic Butterflies, 35 parts.
British Museum Catalogues. (Sec. A B to 28, C to 11, D to 16, E to 9, F to 2, Books to 24.)

2. BOOKS PURCHASED.

Sowerby's Thesaurus Conchyliorum, vols. 1 to 4.
La Bonité Voyage autour due Monde, 2 vols.
J. C. Alber's Die Heliceen nach natürlicher Verwandtschaft.
Tryon's Land and Fresh-water Shells of N. America, part 4.
Reise der Novara, Zoologischer Theil, 6 vols.
Philosophical Transactions of Royal Society, vols. 171, 172.
Royal Cornwall Polytechnic Association, 1879, 1880, 1881.
Geological Record, 1877.
Annales des Sciences Naturelles, Tome 9, 10, 11 and 12.
Schimper's Traité de Paléontologie végétale, Tomes 1 to 3 and Atlas.
Agassiz, Revision of Echini, 2 vols.
" Nomenclator Zoologicus.
" Monographies d'Echinodermes vivants et fossiles.
" Iconographie des Coquilles Tertiaires.
" Memoire sur les moules de Mollusques.
" Etudes critiques sur les Mollusques fossiles.
Bleekers Atlas Ichthyologique.
Hincks's British Polyzoa, 2 vols. and atlas.
" Hydroid Zoophytes, 2 vols. and atlas.
Dillwyn's Catalogue of Shells, 2 vols.
Donovan's Natural History of British Shells, 5 vols.
Zeitschrift für wiss Zoologie, Band 35, heft 1 to 4.
Dr. H. Falconer's Palæontological Memoirs, 2 vols.
" and Cantley's Fauna Antiqua Sivalensis, parts 1 to 9.
" Description of plates.
Dr. O. Feistmantel's Die Versteinerungen der böhmischen Ablagerungen, i, iii.
Siebold's Fauna Japonica—Pisces, Reptilia, Aves, Mammalia.

Day's Fishes of India and Burmah.
Menke and Pfeiffer Malakozoologische Blätter, 8 vols.
Perry's Conchology.
Pfeiffer's Monographia Helicium Viventium, 8 vols.
Ehler's Die Borstenwürmer (Annelida Chastopada)
De Koninck's Fauna du Calcaire Carbonifere de la Belgique.
De Koninck's Fauna du Calcaire Carbonifere de la Belgique.
De Koninck's Monographie du genre Productus.
Playfair's Fishes of Zanzibar.
Garrod's papers on Zoology.
Voyage of H.M.S. "Challenger," vol. i.
Marsh's Odontornithes.
Pfeiffer's Monographia Pneumonopomorum viventium, 4 vols.
Fauna and Flora des Golfes von Neapel—Monograph, iii. and iv.
Voyage au Pol Sud, D'Urville, 24 vols, 5 atlases.
Gaubry's Le Monde Animal dans les Temps Geologique.
Bulletin della Societa Adriatica di Scienze naturali, vol. vii.
Symons's Monthly Meteorological Magazine, vol. xvii.
Archives of Dermatology, vol. vii. no. 1.
Geological and Natural History Survey of Canada, Reports and Maps, 1879-80.
Catalogue of Birds in British Museum, vols. 1 to 5.
Geological Survey of Victoria, Decades, ii, iv, v, vi, vii.
Beiträge zur Kenntniss der Flussfische Südamerikas, ii, iii.
" zur Kenntniss der Fische Afrikas.
Brogniart Vegetaux Fossiles.
Binney's Terrestrial Air-breathing Molluscs of U.S.
Quaterfages Histoire Naturelle des Annélés, 3 vols and plates.
Palæontology of New York, vol. 1 to 4, part 1.

2. BOOKS PURCHASED—*continued.*

Pfeiffer's *Novitates Conchologicae*, 5 vols. in 3.
 Phillipi *Abbildungen und Beschreibungen neuer oder wenig gekannter Conchylien*, 3 vols.
 Günther's *Gigantic Land Tortoises*.
 Rang and Souleyet. *Histoire Naturelle des Mollusques Pteropodes*.
 Royal Society's *List of Scientific Papers*, 8 vols.
 Tryon's *Manual of Conchology*, vol. 3.
 Palaeontographical Society's publications, vol. 36.
 Martin and Chemnitz *Conchylien Cabinet*, 3 vols.
 Bellow's *French and English Pocket Dictionary*.
 Agassiz Pourtalés and Lyman—Echini, corals, &c., collected in dredging expedition of U. S. str. "Blake"
 Sowerby—*Conchological Illustrations*.

Wood—*Index Testaceologicus*.
 Donovan—*Naturalist's Repository*, 5 vols.
 Rowley's *Ornithological Miscellany*, 3 vols.
 Tenniwin's *Histoire Naturelle Generale des pigeons, &c.*, vols. 2, 3.
 Duclou's *Monograph du Genr Olive et Colombelle*.
 Index to *Zoological Society's proceedings, 1861-80*, 2 vols.
 Bronn's *Klassen des Thier Reichs*, 6 vols.
 Forbes and Hanley's *History of British Mollusca and their shells*, 4 vols.
 Gassie's *Faune Conchyliologique de la Nouvelle Calédonie*.
 Hermansen *Indicis generum Malacozoorum*, 2 vols.
 Dunker *Novitates Conchologicae*.
Zoological Record, vol. 17.

3. BOOKS PRESENTED.

Transactions and Proceedings of the N.Z. Institute, 1881.
Journal and Proceedings of the Royal Society of N.S.W., vol. xv.
Transactions of the Highland and Agricultural Society of Scotland, vol. xiv.
 From the Indian Museum, Calcutta—
 Monograph of the Asiatic Chiroptera and Catalogue of Bats in the Indian Museum, Calcutta, 1876.
 Catalogue of Mollusca in Indian Museum, 1877.
 Hand List of " " " 1878.
 Catalogue of Mammalia in " " 1881.
 Annual Report for 1881-2.

From Professor Liversidge—
 The Minerals of N.S.W., by A. Liversidge.
 From the Museum, Madras—
 Report of Major Bidie to Government of Madras on the working of the Govt. Central Museum, 1881-82.
 From Government of Victoria—
 Natural History of Victoria, by Professor M'Coy, Decades 1 to 7.
 From Department of Mines—
 Mineral products of N.S. Wales.
 From the Government Printer—
 Fish and Fisheries of N.S.W., by Rev. J. E. Tenison-Woods.

APPENDIX IX.

LIST OF SPECIMENS CURED AND MOUNTED AND OTHER WORK DONE BY THE TAXIDERMISTS AND ARTICULATOR.

MAMMALS.

2 Pteropus sp.
 1 Monkey, *Macacus* sp.
 1 Pteropus *poliocephalus*.
 1 *Mus decumanus* (albino).
 1 Armadillo, *Tatusia peba*.
 1 *Manatus americanus*.
 1 Pteropus *poliocephalus*.
 1 *Didelphis* sp.
 1 *Mus decumanus* (albino)
 1 Sloth Monkey, *Nycticebus* sp.

1 Mongoose, *Herpestes griseus*.
 1 Slow Loris, *Nycticebus tardigradus*.
 1 Seal, *Tralophus cinereus*.
 1 White opossum, *Phalangista vulpina*.
 1 Javan Deer.
 1 Water Rat, *Hydromys chrysogaster*.
 1 Large Seal.
 1 Dugong.
 1 *Phalangista vulpina* (albino).

BIRDS.

1 *Limosa uropygialis*.
 1 *Trichoglossus concinnus*.
 1 *Trichoglossus pusillus*.
 2 *Lobipes hyperboreus*.
 1 *Esacus magnirostris*.
 2 *Numenius uropygialis*.
 2 *Hiaticula*.
 2 *Rhithodoceros ruficollis*.
 3 *Sericulus melinus*.
 3 *Eopsaltria capito*.
 2 " *magnirostris*
 3 *Ibis rubra*.
 1 *Platycercus pallidiceps*.
 1 *Rollulus* sp.
 1 *Astur approximans*.
 3 Red Ibis—*Ibis rubra*.
 1 *Tinnunculus cenchroides*.
 1 *Podargus strigoides*.
 1 *Aix galericulata*.
 1 *Porphyrio melanotus*.
 24 Birds.
 1 *Casuarius australis*.
 1 *Casuarius bennettii* juv.
 1 Parrot, *Chrysotis ochrocephalus*.
 1 *Falcunculus frontatus*.
 1 *Ocydromus sylvestris*.
 1 " *australis*.
 1 *Carpophaga rufigula*.
 1 *Cacatua eos*.

2 Java Sparrows (albino).
 1 *Anas punctata*.
 1 Emu, *Dromaius novæ-hollandiæ*.
 1 *Nycticorax caledonicus*.
 2 *Sula australis*.
 2 *Acyone azurea*.
 2 *Hiaticula* sp.
 2 *Acanthogenys rufogularis*.
 2 *Melithreptus lunulatus*.
 1 *Anas punctata*.
 27 Birds skinned.
 3 *Cacatua eos*.
 1 *Turnix varius*.
 2 *Malacorhynchus*.
 3 *Ægialites bicincta*.
 1 *Chalcophaps*.
 5 *Hiaticula bicincta*.
 1 *Artamus leucopygialis*.
 1 *Areolus viridis*.
 1 *Plotus novæ-hollandiæ*.
 3 *Ægialites bicincta*.
 18 Birds skinned.
 Group of sand plovers.
 1 *Gymnorhina tibicen*.
 1 Domestic pigeon.
 1 *Procellaria*.
 1 *Anas superciliosa*.
 5 Birds skinned and cured.

FISHES.

1 Large Ray—*Raja pastinaca*.
 1 Young Shark—*Galeocerdo rayneri*.
 1 Flying Gurnard—*Trigla polioneata*.
 1 Large Shark—*Galeocerdo rayneri*.
 1 *Monocentrus japonicus*.
 1 Skull of *Balistes*.
 1 " *Scorpena*.
 1 Small Shark—*Galeocerdo rayneri* jur.
 1 *Crossorhinus dasyopogon*.
 1 Large Schnapper—*Pagrus unicolor*.
 1 *Plectropoma ocellata*.
 1 *Aracana lenticularis*.

1 *Elaps saurus*.
 1 *Cheiloseyllum furvum*.
 1 *Mugil grandis*.
 4 *Aracana lenticularis*.
 2 Sea Mullet, *Mugil grandis*.
 1 *Zeus australis*.
 1 *Platycephalus fuscus*.
 2 Perch, *Therapon macleayi*.
 2 Perch, *Ctenolates auratus*.
 1 Flying Gurnard, *Trigla kumu*.
 2 *Girella simplex*.
 1 *Girella elevata*.

FISHES—continued.

1 *Temnodon saltator*.
 1 *Sciæna antarctica*.
 1 *Seriola grandis*.
 1 *Hemirhamphus intermedius*.
 1 Angel Shark, *Squatina angeles*
 1 *Caranx declivis*.
 1 *Chrysophrys sarba*.
 2
 4 *Teraglin*, *Otolithus teraglin*.
 2 *Ctenolates flavescens*.
 1 Sole, *Synaptura nigra*.
 1 *Glaucosoma scapulare*.
 1 Red Rock-cod.
 1 *Caranx declivis*.
 2 *Zeus australis*.
 1 *Sillago ciliata*.
 1 *Monacanthus*.
 1 *Kathetostoma*.
 1 *Scorpena*.
 1 *Heterodontus philippii*.

1 *Cossyphus unimaculatus*.
 2 *Synaptura nigra*.
 2 *Hypnos subnigrum*.
 1 *Anguilla australis*.
 1 *Crossorhinus* sp.
 1 " *barbatus*.
 1 *Heterodontus galeatus*.
 5 Large *Oligorus macquariensis*.
 2 *Crossorhinus* sp.
 1 *Heterodontus galeatus*.
 7 *Oligorus macquariensis*.
 2 *Ctenolates auratus*.
 1 *Serrannus* sp.
 2 *Copidoglanis* sp.
 2 Large Sun Fish *Orthogoriscus mola*.
 1 Small Sun Fish.
 2 *Temnodon saltator*.
 1 *Ceratodus forsteri*.
 1 *Oligorus macquariensis*.

REPTILES.

1 Carpet Snake, *Morelia variegata*.
 1 Large Boa (constrictor?)
 1 Large Diamond Snake, *Morelia spilotes*.

1 Turtle.
 1 Small Sea Turtle.

CRUSTACEA.

1 *Palinurus hugelii* jur.

SKELETONS.

1 *Balistes flavomarginata*.
 1 " (head only).
 1 Ostrich, *Struthio camelus*.
 1 Pterois Zebra.
 1 Mongoose, *Herpestes griseus*.
 1 Platypus, set up.
 5 " fleshed.
 1 Skull of *Lotella grandis*.

1 Mongoose.
 1 Skull of a Pig.
 1 Albatross, *D. melanophrys*.
 1 *Eclectus polychlorus* ♂.
 1 *Plotus novæ-hollandiæ*.
 1 Aboriginal, from Wellington.
 1 *Delphinus* sp.
 1 *Manatus americanus*.

CASTS AND MOULDS.

13 Stone clubs.
 2 Tasmanian skulls.
 2 " faces after death.
 1 Radius *Diprotodon*.
 1 Ulna do.
 1 Zygomatic arch *Diprotodon*.
 1 Radius "
 1 Humerus "
 1 Tibia "
 1 Femur "
 1 Part of lower jaw "
 1 Upper incisor "
 1 Condyle of lower jaw "
 1 Rib.
 3 Teeth of *Molotherium*.

9 Stone clubs.
 21 Stone implements for Adelaide Museum.
 8 Casts of head and other bones of extinct Saurians, &c.,
 framed and mounted for exhibition.
 8 Casts of Fossils.
 1 Mould of reptile's teeth, lent by Mr. Wilkinson.
 3 casts of same.
 1 Model of gold nugget.
 6 Casts of "
 16 Moulds of fossil bones from Wellington Caves.
 72 Casts from same.
 3 Moulds of Wellington fossils.
 1 Mould of fossil tooth, reptile's.
 2 Casts " "

PHOTOGRAPHS.

1 Negative of a Shark, half-grown, *Galeocerdo rayneri*.
 6 Prints of "
 1 Negative of *Galeocerdo jur.* "
 4 Prints of "
 1 Negative of large *Pogonius unicolor*.
 3 Prints of "
 1 Negative of *Olisthrops brunneus*.
 2 Negatives of *Thylacoleo* jaws (fossil).
 2 " *Temnodon saltator*.
 1 Negative of *Solea* sp. nov.
 1 " *Seriola grandis*.
 1 " pelvis of Kangaroo (fossil).
 2 Negatives of upper jaw of *Thylacoleo*.
 12 " Fossil Bones from Wellington.
 10 " Fossils "
 20 Prints of "
 26 " Wellington Fossils. "
 2 Negatives of Fish, *Arripes salar*.
 1 Negative of *Trachichthys* sp.
 1 " *Cossyphus unimaculatus*.
 2 Negatives of *Plectropoma annulatum*.
 1 Negative of Scapula of *Echidna* (fossil).
 1 " Tibia of Emu "
 1 " Echidna toes "
 1 " teeth of *Macropus* "

4 Negatives of Kangaroo teeth (fossil)
 3 " " and toes (fossils).
 2 " Fish. "
 6 " "
 5 " "
 4 " Natives (males) of Bougainville Island
 19 " Whalebone Whale.
 28 Prints of same. Seals for Mr. Scott's Catalogue.
 5 " Wellington Caves.
 7 " Whalebone Whale.
 10 " Whale and Fish.
 7 " "
 2 Negatives of Fish. "
 2 " Porpoise.
 8 Prints of Wellington Caves.
 4 " small Whale from Manly.
 3 " Porpoise, Delphinus.
 2 Plans of proposed extension of Museum (mounted).
 2 Negatives of hands of Seal.
 2 " Sun-fish from Manly.
 2 " *Temnodon saltator* and *Calyonimus* sp.
 1 Negative of *Lophonectes* sp.
 11 Prints of Fishes.
 8 Negatives of Fish.
 5 " large Sun-fish.
 30 Prints of Fish and large Sun-fish.

INSECTS.

1 *Phasma* sp. (Orthoptera).

APPENDIX X.

REPORT OF THE COMMITTEE ON THE EXPLORATION OF CAVES AND RIVERS.

To the Trustees of the Australian Museum,—
Gentlemen,

Your Committee entrusted with the Exploration of the Caves and Rivers of Australia have now to report that during the year 1882 the work of exploring the caves and searching for fossil remains was continued, under the supervision of the Curator. The Caves near Wellington have been extensively examined, new openings made, and new caves and unexpected extensions of old caves discovered. On one of his visits Mr. Ramsay remarks:—"I found the hole known as the Well quite dry, and at a depth of 27 feet I met with a ledge or shelf which extends in one direction about 14 feet by about 6 or 8 feet wide; this shelf runs under an archway for about 4 or 5 feet, and then another well-like hole is met with, containing water over 10 feet deep. I believe there are extensive caves leading from the well, but these could not be reached without pumping. I found the entrance of cave No. 1 to be nearly closed with debris, and fast filling up with soil falling from the surface. As the water had receded some considerable distance, I was enabled to get about 100 feet further than on previous occasions. The walls are slanting, leaning over to the centre, forming a Λ -shaped roof, almost at a right angle, underneath the apex of which stalactites are forming. The highest part of the roof is about 14 feet, from which it becomes lower till it reaches the water. Further exploration was impossible, the water here being 14 inches and the deposit of soft mud over 4 feet in depth."

Mr. Ramsay also mentions another cave yet unexplored which had been entered by one man, and was said to contain extensive chambers.

A little excitement was caused by the discovery in one of the hitherto unknown caves of two human skeletons, which were however the remains of whites, and not aborigines, and evidently the sole remaining record of some tragedy in the early days of the Colony. A few remains of aborigines have been met with here and there—mostly teeth, and toe and finger bones—but these are believed to be of recent origin.

A number of the original specimens obtained, and casts, photographs, &c., of others have been sent to Europe for determination.

In the year 1881 the Richmond River was explored, the result of which has already been reported; and during 1882 the Committee turned its attention to the Burdekin and Mary Rivers, in Queensland.

An expedition under the charge of Mr. Alex. Morton, was fitted out and despatched to Townsville for this purpose.

The following is Mr. Morton's narrative of his proceedings:—

Gentlemen,

Acting under instructions I proceeded to the Burdekin River, Queensland, on 7th June, 1882, for the purpose of exploring the rivers and fresh-water lagoons, and securing specimens of the fishes found in those waters, and specially to search for any allied to the ganoid form, taking with me boat, nets, and all necessary appliances.

At Brisbane I presented the official letters with which I had been furnished: First to the Collector of Customs requesting that all my things might be exempt from duty; the request was granted. Second, to the Surveyor-General, who kindly gave me letters to the various surveyors in the northern district. Third, from the Minister of Justice, Sydney, to the Minister of Works, Brisbane, asking that I might be supplied with a free railway pass. The Minister very kindly issued one for all the lines in Queensland for a period of six months. Fourth, from the Inspector-General of Police, Sydney, to the Inspector of Police, Brisbane.

I arrived at Townsville on the morning of the 14th June, but owing to the inadequate means of landing goods from the steamers it was not till the 17th that I had my goods put on shore. I found then that there would be no vessel leaving for the Burdekin River within ten days. My orders were to engage one or two Europeans as fishermen, but white labour being very scarce and wages high I found it was impossible to do so, and therefore took the advice of Messrs. Aplin, Brown, & Co., who had been appointed my agents, to engage two Chinese fishermen. I was enabled to do this at 25s. per week and rations. I got stores ready for the camp and left Townsville on the 27th, in a small steamer for Plantation Creek, a branch of the Burdekin. I arrived there on the 29th, and pitched my camp on the banks of the creek. Plantation Creek is a tidal water, 10 miles long. We got the nets ready and set the tow line—a line with a number of hooks of various sizes attached—across the creek, but were not successful, owing to the great number of crabs taking the baits. While at this place I tried the stake and seine net. There were not a very great variety of fishes found in these waters, and, considering that I had given this place a fair trial, I struck tents, and through the kindness of A. Macmillan, Esq., an extensive sugar-planter in the district, who kindly placed a team at my disposal, we moved our quarters to the banks of Lillesmere Lagoon. This lagoon is about 5 miles long, 500 yards wide, and of great depth. Owing to the banks being very steep, with many snags, &c., I found it possible to draw the seine net in one spot only, but by the aid of the trammel net I was fortunate in securing a very large and interesting collection of fishes. Some of them the Hon. W. Macleay has since pronounced to be undescribed species, and many of them are quite new to the Sydney Museum. At this place I received a telegram from Mr. Ramsay informing me that an experienced fisherman (W. Adams) was on his way to join me, and he arrived while I was camped here. I found him to be a very hard-working, willing man, and a valuable acquisition, as the Chinese were not over-zealous in their work.

We visited several lagoons in this locality, getting a large and varied collection, also a very interesting fresh-water sponge and a number of fresh-water shells. Some of the species of shells are new to science. Owing to the heavy rains the main Burdekin was flooded and running very rapidly, so I determined to work out all the lagoons in this district before commencing operations on the river. We found the fish-traps to work tolerably well, a large number of eels and fresh-water tortoises being captured. The tow line was not a success in the lagoon, the tortoise, eels, and water-rats taking all the bait.

After giving the lagoons a fair trial we made arrangements to move to the main stream. I found that the distance to the mouth of the river was by water about 35 miles, and by land about 18. Mr. Macmillan strongly advised me to go over-land, and kindly placed at our disposal a team of eighteen bullocks to take the boat and camp, and land us about 15 or 20 miles from the mouth of the river, near the falls. After some very rough travelling we arrived at the part of the Burdekin where I had decided to pitch the camp. The Burdekin River at this place is about $\frac{1}{4}$ of a mile wide. The banks on the side where we were camped were about 20 feet high, and when flooded the river rises to about 20 to 30 feet over them. The bottom is clear sand and gravel, with little food for fishes. We found the river at this place running too rapidly to fix the trammel net, and in only two or three places could we use the seine net. A very few varieties of fish were obtained here. From this we moved nearer the mouth of the river. At this part we obtained a very large collection of various salt-water specimens, as also two fine dugongs, male and female. After spending about six weeks in this district we left for Townsville, where I received instructions to proceed inland to try the head-waters of the Burdekin, and, finding that Adams would be sufficient assistance, I discharged the Chinamen.

Leaving Townsville, we went by train to the crossing of the Burdekin, about 240 miles above tidal influence, and found the river running very rapid and strong; we used the trammel net, traps, and dynamite, and collected about a dozen species of fish. Two or three species are new, and one, Mr. Macleay says, is a new genus. On our return to Townsville I received instructions to take Adams, boat, and nets to Maryborough, and try the waters in that district. We arrived there on 28th October, and proceeded to the head-waters of the Mary River, where we secured some fine specimens of *Ceratodus* and a few other varieties of fish, but could not find any trace of the ganoid form referred to in Mr. Ramsay's instructions. Leaving Adams here I went inland to Gayndah, where I had been informed one of the ganoid forms referred to had been obtained. At this place I met with an old resident, who for the last twenty-five years had been engaged in fishing. He informed me that he caught the rare fish *Ompax spatuloides* some two years back, but it was only once he had met with it. The river I found was not workable with nets, owing to its being covered with a mass of weed. I was informed the months of June, July, and August were the only months in which it could be worked successfully. While at this place I got the following interesting information from this man with regard to the breeding and spawning of the *Ceratodus*. He states that he found them going in pairs during the months of June, July, and August, and at a depth of from 6 to 8 feet. They make slight indentations on the bottom (mostly mud), in which they lay their spawn, the male and female fish lying on either side. When guarding their spawn he states they are not easily disturbed, and when disturbed they merely rise near the surface. He also states they frequent the same beds yearly. The spawn he describes as being very like that of frogs. He told me also that he had taken the spawn and placed it in a tub of water, hatching it

1883.

NEW SOUTH WALES.

TECHNOLOGICAL, INDUSTRIAL, AND SANITARY MUSEUM.

(REPORT OF THE COMMITTEE OF MANAGEMENT FOR 1882.)

Presented to Parliament, pursuant to Act 17 Victoria, No. 2, section 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 Third 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, Mr. 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. Mr. J. H. Maiden has continued his work of classifying and arranging the Museum collections. On the 14th August the Acting-Secretary, Mr. C. R. Buckland, was dismissed, the secretarial work thenceforward devolving upon Mr. Maiden, who, on the 1st October, was appointed Curator and Secretary. This action was taken on it being discovered that Mr. Buckland (who also held the office of Secretary to the Australian Museum) had appropriated to his own use funds of this Museum to the extent of £240. Instructions were immediately given for his arrest, but up to the present time his whereabouts remains unknown.

2. It is with profound regret that the Committee report the almost total destruction of the Museum by the burning of the Garden Palace, the whole of the south-western portion of which it occupied. The heaviest of the iron specimens were alone saved, and many of these received considerable injury by the fire. A careful, but approximate estimate of the damage sustained by the Museum is £10,914 19s. 9d. It would be almost impossible to assess the money value of some of the collections, and their loss (especially that of the magnificent series of ethnological specimens) is irreparable.

The more important books and papers belonging to the Museum, kept in an iron safe manufactured in this city, were totally destroyed.

The Museum was in an advanced state of preparation, and would, in the ordinary course of events, have been thrown open to the public about the 1st December, 1882.

3. Immediately after the destruction of the Garden Palace, application was made to the Government for the unoccupied portion (affording a floor-space of 9,375 square feet) of the Agricultural Hall in the Outer Domain. The application having been acceded to, such specimens as had been recovered from the ruins of the Garden Palace were removed thither, and the task of re-forming the Museum commenced. Many specimens have already been received, and numerous exhibits from manufacturers and others have been promised. Much sympathy has been expressed by many contributors to the original collection, from whom numerous articles have already been received, while a large number have promised exhibits, which are expected to arrive shortly. The work of fitting up the Agricultural Hall for the reception of specimens and making arrangements for their display is being rapidly proceeded with, and the Committee hope that the Museum may be ready for the public about September next.

4. Circulars setting forth the aims and scope of the Museum and appealing for specimens have been prepared, and forwarded to manufacturers and others throughout the world.

5. The gentlemen whose names here follow have kindly consented to act as a British Committee for the purpose of securing specimens for the Museum:—The Honorable Sir Saul Samuel, K.C.M.G., Agent-General for the Colony; Dyce Duckworth, Esq., M.D.; M. Berkeley Hill, Esq., M.B.; J. H. Roberts, Esq., F.R.C.S.; and Mark H. Judge, Esq., A.R.I.B.A., Curator of the Parkes Museum of Hygiene. Through the exertions of this Committee twenty-three cases of selected exhibits have, up to the present, been consigned to the Museum, and more will doubtless follow.

6. The following revised synopsis of the proposed contents of the Museum has been circulated throughout the world:—

“This Museum is intended to occupy a similar position and fulfil the same purpose in this Colony which the South Kensington Museum, the Bethnal Green Museum, the Museum of Practical Geology, the Patent Office Museum, and the Parkes Museum of Hygiene do in London. To this end it is intended to collect together typical collections of all materials of economic value belonging to the animal, vegetable, and mineral kingdoms, from the raw material through the various stages of manufacture to the final product or finished article ready for use.

“It is intended that the following shall be more or less completely represented:—

1. Animal products and specimens to show the methods followed in their preparation and manufacture, their uses for clothing, textile fabrics, domestic and ornamental purposes, their applications in pharmacy, dyeing, perfumery, &c.
2. Vegetable products, from the raw material through the various stages of manufacture to the finished fabric or other article. This section will include gums, resins, oils, woods, fibres, tans, dyes, drugs, perfumes.
3. Waste products, whether of animal, vegetable, or of inorganic origin, with illustrations of their uses.
4. Foods, animal and vegetable, their constituents, and their adulterations. Dietary tables and information concerning the chemical composition, and other important particulars regarding the human foods of the world will be displayed.
5. Economic entomology. The specimens will be so arranged as to enable the public to discriminate between insects which are injurious to man and those which work for his benefit, and to show the insects in all stages of growth, and specimens of the materials which they have destroyed or injured. Where it is impossible to exhibit actual specimens, the life history of the insects in question will be illustrated as far as possible by models and diagrams.
6. Economic geological specimens, showing the ores of the metals, their manufacture and uses; mineral combustibles; building and ornamental stones; lithographic and other stones; clays, cements; substances employed in the manufacture of glass, pottery, porcelain; pigments of inorganic origin, &c. Architectural and building examples will be associated with this collection; also precious stones, and specimens to illustrate their artificial production and imitation. The uses of many of the specimens in this collection will be shown practically by incorporating them with the building itself in the form of pillars, doorways, window-sills, by laying down portions of the floor, steps, or inlaying the walls of the Museum.
7. Chemical and pharmaceutical products.
8. Educational apparatus and appliances, school fittings, books, maps, diagrams, &c.; collections of scientific apparatus and of specimens for high schools and colleges. A collection of this kind is of the greatest possible value to teachers, who can thus see and examine everything required in a school, and can directly compare the merits of the different books, fittings, and appliances as supplied by different makers and recommended by various authorities.
9. Sanitary and hygienic appliances and systems, adapted to public works, domestic architecture, personal health, clothing, and habits of life.
10. Mining, engineering, and machinery; models, plans, drawings, tools, machinery, and appliances. Metallurgical products.
11. Military and naval armaments, ordnance, fire-arms, &c. Models of ships of war and mercantile vessels.

12. Agricultural tools, appliances, and machinery ; also soils, manures, &c. In this section will be included mineral fertilizing substances, *e.g.*, gypsum, phosphate of lime, marls, shells coprolites, &c., not manufactured.
13. Specimens and series of specimens illustrative of miscellaneous manufactures.
14. Models, drawings, and descriptions of patents ; special attention will be paid to those which are likely to prove of use in the Colonies, or which have been taken out in Australia.
15. Ethnological specimens.
16. Samples of historical furniture and of artistic workmanship in iron and other metals. Ceramics, pottery, and porcelain, &c. (exclusive of sanitary appliances).
17. Photographic, electrotype, plaster, and other reproductions of examples of art workmanship where originals are not to be obtained.
18. Exhibition catalogues, trade journals, price lists, and descriptions of new processes or industries. The information afforded to manufacturers, merchants, and tradesmen by a collection of this kind will be of incalculable value. A library and reading-room will constitute important adjuncts to the Museum.

“Sanitary appliances and other apparatus will, wherever practicable, be exhibited in action.

“Sufficient concise information will be attached to each exhibit or group to satisfy without wearying the visitor, a full description being given in the catalogues. The prices paid for specimens and their commercial value will be indicated whenever possible, as it is a matter in which visitors usually take very great interest. The value of gifts will never be affixed where donors express wishes to the contrary.”

7. Advertisements soliciting donations to the Museum have been inserted in the following English, American, and Continental Journals :—“The British Trade Journal,” “Journal of the Society of Arts,” “The Scientific American,” “The American Journal of Science,” “Dingler’s Polytechnisches Journal,” “Moniteur des Interêts Matériels.”

Kindly and sympathetic notices of the Museum have been observed in the literary columns of numerous leading journals.

8. The Committee beg to add to this their Report the following Appendices :—I. The Annual Balance-sheet ; II. A List of Books purchased for the Museum Library ; III. A List of Books and Periodicals acquired by donation ; IV. A List of Specimens presented to the Museum ; V. A List of Specimens, Apparatus, &c., purchased.

The record of attendance at meetings of the Committee was destroyed by fire. Each member of the Committee of Management has devoted much of his time and energy to the work of forming the Museum.

The Common Seal of the Museum is affixed by order of the Board, this third day of April, 1883.

ALFRED ROBERTS,	}	Members
ARCHD. LIVERSIDGE,		of
ROBERT HUNT,		} Committee.

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

J. H. MAIDEN,
Curator and Secretary.

APPENDIX I.

BALANCE-SHEET of the Technological, Industrial, and Sanitary Museum, for the year ending 31st December, 1882.

RECEIPTS.		EXPENDITURE.	
1882—December 31.		1882—December 31.	
£	s. d.	£	s. d.
To Receipts from the Trustees of the Australian Museum	3,800 0 0	By Salaries and wages	1,025 5 10
„ Balance from 1881	564 3 1	„ Purchase of specimens	224 9 6
		„ bottles	157 8 1
		„ show-cases	846 5 6
		„ cloth for lining show-cases ..	51 7 7
		„ books	85 4 7
		„ apparatus and chemicals	449 8 6
		„ timber	156 5 3
		„ ironmongery	74 14 10
		„ glass, painters' materials, &c...	68 5 2
		„ furniture	80 10 10
		„ stationery	28 5 4
		„ Polishing of show-cases	54 16 6
		„ Metal-labels and ticket-writing ..	52 4 3
		„ Alterations to Museum (Hudson Bros.) ..	431 9 1
		„ Smith's work	18 7
		„ Insurance, freight, cartage, Customs and agency charges on specimens	129 13 10
		„ Advertising	6 15 0
		„ Cablegram	3 11 11
		„ Sundries*	45 12 8
		„ Balance in Bank of New South Wales.....	374 1 10
£	4,364 3 1	£	4,364 3 1

* Particulars of this item can be given only from the date of the Garden Palace fire.

APPENDIX II.

LIST of Books purchased during 1882.

- A Dictionary of Chemistry. 9 vols. (Watts.)
 Elements of Chemistry. 3 vols. (Miller.)
 A Treatise on Chemistry. 3 vols. in 4. (Roscoe and Schorlemmer.)
 A Manual of the Chemistry of the Carbon Compounds. (Schorlemmer.)
 Industrial Chemistry. (Payen, edited by Paul.)
 Introduction to Commercial Organic Analysis. (Allen.)
 Select Methods in Chemical Analysis. (Crookes.)
 Inorganic Chemistry. (Kemshead.)
 Modern Organic Chemistry. (Wheeler.)
 Description of the Chemical Laboratories at the Owen's College, Manchester. (Roscoe.)
 Foods; their Composition and Analysis. (Blyth.)
 Food and its Adulterations. (Hassall.)
 Foods. [International Scientific Series.] (Smith.)
 Wines and other Fermented Liquors. (Sheen.)
 Elementary Treatise on Natural Philosophy. (Deschanel; translated by Everett.)
 Elementary Treatise on Physics. (Ganot; translated by Atkinson.)
 Elements of Physics. (Arnott.)
 Constants of Nature. (Clarke.)
 The Spectroscope. (Lockyer.)
 Studies in Spectrum Analysis. (Lockyer.)
 Studies in Spectrum Analysis. (Schellen; translated by the Misses Lassell.)
 Principles of Mechanics. (Goodeve.)
 Strength of Materials. (Anderson.)
 Railway appliances. (Barry.)
 Workshop Appliances. (Shelley.)
 Electro-metallurgy. (Gore.)
 A Treatise on Watch-making, past and present. (Nelthropp.)
 The Industrial Arts. (South Kensington Museum Hand-book.)
 Large Catalogue of Majolica in South Kensington Museum.
 Ceramic Art in Japan. (Audsley & Bowers.)
 Official Report on the Manufacture of Paper in Japan. (English Blue Book, 1871.)
 British Manufacturing Industries. 14 vols. (Stanford.)
 Manual of Colours and Dye-wares. (Slater.)
 A Dictionary of Terms. (Weale.)
 A Catalogue of modern Works on Science and Technology. (Bartley.)
 Waste Products and Undeveloped Substances. (Simmonds.)
 The Commercial Products of the Sea. (Simmonds.)
 Animal Products. (Simmonds.)
 Economic Entomology—Aptera. (Murray.)
 A general System of Botany. (Le Maout & Decaisne; translated by Mrs. Hooker.)
 The Vegetable Kingdom. (Lindley.)
 The Treasury of Botany. 2 vols. (Lindley & Moore.)
 Botanical Dictionary. (Paxton.)
 The Plant. (Schleiden.)
 Cryptogamic Botany. (Berkeley.)
 Elements of Geology. (Lyell.)

- Principles of Geology. 2 vols. (Lyell.)
 Hand-book of Geological Terms. (Page.)
 Anthropology. (Topinard; translated by Bartley.)
 Biology. (Letourneau; translated by Maccall.)
 Notes on Building Construction. 3 vols. (Livingtons.)
 Observations on the Construction of Healthy Dwellings. (Galton.)
 The Plumber and Sanitary Houses. (Hellyer.)
 French and English Dictionary. (Contanseau.)
 German and English Dictionary. 2 vols. (Flügel.)
 Italian and English Dictionary. 2 vols. (Millhouse.)
 Science and Commerce; their influence on Manufactures. (Simmonds.)
 Duties and Charges on Shipping in Foreign Ports. (Urquhart.)
 Collection of Revised Statutes of Ontario. (Kingsford.)
 Repertorium der Technischen Literatur. (Schubarth.)
 Lexicon der Farbwaaren und Chemikalienkunde. (Springmuhl.)
 Anfangsgründe der Allgemeinen Zoologie. (Morse.)
 Report of H.M. Commissioners for the Paris Exhibition, 1878. 2 vols.
 Hand-book to the British-Indian Section, Paris Exhibition, 1878. (Birdwood.)
 Journal of the Franklin Institute, Philadelphia. Vols. c, ci, cii, civ, cvi.
 Bulletin du Musée de l'Industrie de Belgique. Tomes 59, 61-68.
 Revue Scientifique. 3 vols., 1869-73.

Also, 243 publications from the Chevalier Jervis, Turin, Italy, comprising Exhibition literature, catalogues, reports, monographs, statistics, awards, &c., from the London International Exhibition of 1851 to the Turin Industrial Exhibition of 1872.

APPENDIX III.*

LIST of Books, &c., presented to the Museum during the year 1882.

1. From the Trustees of the Public Library, Museums, and National Gallery of Victoria, Melbourne:—

- Australian Birds. (Chart.)
 Australian Snakes. (Chart.)
 Barry, Sir Redmond—
 1. Address on Opening of School of Mines, Ballaarat.
 2. Address on Opening of Free Public Library, Ballaarat East.
 3. Address to the Workmen employed in building the Great Hall of the Melbourne Public Library.
 4. Inaugural Address to the Members of the Victorian Institute.
 5. Lecture on Architecture, Sculpture, and Painting.
 Beilby, J. Wood. Reasons suggestive of Mining on Physical Principles for Gold and Coal.
 Bleasdale, Rev. J. I. New Industries.
 Castelnaeu, Count:—
 1. On a new Ganoid Fish from Queensland.
 2. On several new Australian fresh-water Fishes.
 3. The Ichthyology of Port Jackson.
 4. Notes on the Edible Fishes of Victoria.
 5. Researches on the Fishes of Australia.
 Ellery, R. L. J., F.R.S. Results of Meteorology, &c. 5 vols.
 Exploration Committee of Royal Society of Victoria. Progress Reports and Final Report.
 Gold-fields of Victoria.
 Hayter, H. H.:—
 1. Notes on the Colony of Victoria.
 2. Victorian Year-book. 6 vols.
 McCoy, Professor:—
 1. Prodomus of the Palæontology of Victoria, Decades, II-VI.
 2. Prodomus of the Zoology of Victoria, Decades, I-V.
 London International Exhibition of 1862:—
 1. Official Catalogue, Fine Art Department.
 2. Do. Industrial Department.
 Mueller, Baron von:—
 1. Eucalypts of Australia, Dec., I-VIII.
 2. Fragmenta Phytographiæ Australiæ. Vols. II-VIII, XI.
 3. Index Perfectus ad Caroli Linnæi Species Plantarum.
 4. Introduction to Botanic Teaching.
 5. Native Plants of Victoria.
 6. Papuan Plants.
 7. Select Plants.
 Neumayer:—
 1. Discussion of Meteorological and Magnetic Observations.
 2. Results of Meteorological and Nautical Observations.
 Paris Exhibition, 1878. Report of the Victorian Commissioners.
 Patent Office Publications:—
 1. Abstracts of Specifications relating to the Preservation of Food.
 2. Abstracts of Specifications of Patents, Ac. to Bu., 1854-66.
 3. Do do Metals, Pts. 1 and 2.
 4. Patents and Patentees, 1854-66.
 5. Do do Indexes, 10 vols.

Pearson,

* Appendices III and IV are doubtless somewhat incomplete, owing to the destruction of all Museum records prior to September 22, 1882. It is particularly requested that omissions may be notified to the Curator.

Pearson, Charles H. Report on the state of Public Education in Victoria.
Public Library, Museums, and National Gallery :—

1. Industrial Museum, Catalogue of Rocks.
2. Do do Timbers.
3. Do Lectures B, C, and D.
4. Do Reports and Papers.
5. Do Rules and Regulations.
6. National Gallery, Catalogue of Pictures.
7. Do do Statues.
8. Do do Ethnotypical articles.
9. Public Library, Catalogue of Books, 1880.
10. Reports of Trustees, 1870-1, 1871, 1872, 1875-81.

Rosales, Henry. Essay on the origin and distribution of gold in quartz veins.

Shillinglaw, J. J. Historical records of Port Phillip.

Smyth, R. Brough. Aborigines of Victoria, 2 vols.

Story, William. Essay on the Agriculture of Victoria.

Victorian Government, Prize Essays, 1860.

2. A valuable collection of publications of the Geological Survey of India, from the Government of India, through H. B. Medlicott, Esq., M.A., F.R.S., Superintendent of the Survey. The donation consisted of upwards of one hundred volumes, and included, amongst other works :—

Memoirs of the Geological Survey of India.

Do do Palæontologica Indica.

Records of the Geological Survey of India.

3. From the Council of the British Association for the Advancement of Science :—
Twenty-one volumes of Reports of Meetings of the Association.

4. From the Council of the Mineralogical Society of Great Britain and Ireland :—
The Mineralogical Magazine and Journal of the Society.

5. The following Calendars have been received :—

University of Durham College of Physical Science, Newcastle-upon-Tyne.

University of Otago, New Zealand.

Canterbury College, do

School of Mines, Ballarat, Victoria, together with numerous Reports, &c., referring to that Institution.

6. Large exhibits of Educational works have been received from the following firms :—

Messrs. W. and A. K. Johnston, Edinburgh; Messrs. George Philip and Son, London and Liverpool.

7. From the Government Printer, Sydney :—

Official Record of the Sydney International Exhibition, 1879.

Select extra-tropical plants, by the Baron Ferd. von Mueller.

Report on certain Museums for Technology, Science and Art, by Professor Liversidge, F.R.S.

Estimates-in-Chief for 1883.

8. The Publishers of the following Journals have generously placed the Museum upon the free list :—

American Monthly Microscopical Journal (New York).

American Bookseller (New York).

Boot and Shoe Trades' Journal.

Bullettino Telegrafico (Rome).

Bookseller.

British Trade Journal.

Fireman.

Ironmonger.

Index Medicus (New York).

Journal of Forestry.

Lumière Electrique (Paris).

Library Journal (New York).

Literary News (New York).

Metal.

Manufacturer and Builder (New York).

Martineau and Smith's Hardware Journal (Birmingham)

Publishers' Weekly (New York).

Paper-makers' Monthly Journal.

Paper-makers' Circular.

Plumber and Decorator.

Scientific American (New York).

Symons's Monthly Meteorological Magazine.

Telegraphic Journal and Electrical Review.

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

Colburn's United Service Magazine.

Druggists' Circular and Chemical Gazette (New York).

Engineering and Mining Journal (New York).

Jeweller and Metal-worker.

Leather Trades' Circular.

Paper Consumers' Circular.

Textile Manufacturer (Manchester).

10. The Ironmonger, for the years 1880-1, bound in 4 volumes; also the Ironmongers' Diary and Text Book, for the years 1881-2-3, from the publisher of the Ironmonger.

APPENDIX IV.*

LIST of Donations of Exhibits received during 1882.

- From the Patent Antiseptic Co., Edgware Road, London, W. :—
Model of the apparatus and sample of the disinfectants employed by the Company.
- From Professor Barff, M.A., London, and George Bower, Esq., St. Neots, Hunts :—
Four fine iron-castings, treated by the Bower-Barff "rustless-iron" process.
- From Miss Blaxland, Sydney :—
Large Burmese stone idol.
- From John Bell, Esq., Southwark, London, S.E., and Manchester and Glasgow :—
A series of specimens (in case), illustrative of the uses of asbestos.
- From Messrs. John Bolding & Sons, Grosvenor Works, South Molton-street, London, W :—
One water-waste preventer and flushing cistern.
One "National" closet.
- From Messrs. Chance Brothers, Soho Works, near Birmingham :—
Samples of the materials used, and series of specimens illustrating the manufacture of crown and sheet glass.
- From Messrs. Doulton & Co., Lambeth Potteries, London, S.E. :—
A series of specimens illustrative of the processes in the manufacture of an earthenware vase.
- From J. E. Ellison, Esq., Leeds :—
Samples (complete) of his patent "Conical Ventilators."
- From R. Renton Gibbs, Esq., St. James's Works, Mill-street, Liverpool :—
One patent furnace for heating-apparatus.
One patent fire-grate, coil, and front.
- From Messrs. Hayward Tyler & Co., 84 and 85, Upper Whitecross-street, London, E.C. :—
One Full-flushed valveless closet, complete, with basin, &c.
- From Messrs. Ihlee & Horne, 31, Aldermanbury, London, E.C.
Specimens of Balmain's patent "Luminous Paint," in water and oil, also sample of "Iron Paint,"
Life-buoy and board (framed and glazed), treated with the paint, to display its properties.
- From the Executive Commissioner for Japan at the Sydney International Exhibition, 1879, through the
Honorable F. B. Suttor :—
A large collection of specimens from Japan, comprising ethnological specimens, manufactures
(furniture, paper, fish-hooks, artificial flowers, &c.), vegetable products in bottles, &c.
- From the Director of the Royal Botanic Gardens, Kew, London :—
One case containing 102 economic botany specimens.
- From Thomas Lloyd, Esq., Winchester :—
Three patent exhaust ventilators, model of ventilating shafts, with patent joint.
- From Messrs. Mason Brothers, Sydney :—
Samples of the first cotton and tobacco grown in the Solomon Islands.
- From the Morgan Crucible Co., Battersea, London :—
The large and valuable exhibit of this Company at the Sydney International Exhibition, comprising
plumbago and fire-clay crucibles, muffles, &c., &c.
- From Messrs. Noble & Co., 2, Savage Gardens, Tower Hill, London, E.C. :—
A large exhibit (with show-case complete) of "Malt Extract."
- From Messrs. J. Purnell & Son, 15a, Kensington Place, Page-street, Westminster, S.W. :—
One patent water-waste preventer, complete.
- From the Honorable the Minister for Public Instruction, Sydney :—
Nine cases containing the complete set of apparatus to illustrate Mr. Thomas Twining's "Science
made Easy," Course of Lectures.
- From the Honorable the Chief Secretary of South Australia :—
Twenty-five large photographs of public buildings in Adelaide.
- From the Surveyor-General of South Australia :—
One case of maps and plans.
- From the Surveyor-General of New South Wales :—
A large number of maps (selected from those prepared in his Department), mounted complete.
- From Messrs. Archibald Smith & Stevens, 48, Leicester Square, London, W.C.
Patent "Janus" door-springs, casement-fastening, sill-bar, buffer-spring, and door-stops. Specimen
set of "Binate" lock-furniture and lock. Several of these specimens are fitted into wooden
frames, and form complete working models.
- From Thomas Twining, Esq., Penryn House, Twickenham, near London.
Show-cases, plans, bottles, trays, labels, and other approved appliances to facilitate the display of
specimens. [Mr. Twining has, in the course of frequent and voluminous correspondence
with the Curator, favoured him with most valuable hints, which he has not failed to take
advantage of in the classification and arrangement of the Museum.]
- From the Worcester Royal Porcelain Co. (Limited), Worcester :—
Samples of the materials used in the manufacture of porcelain.
Two fine pieces of porcelain.
- The following have generously offered to replace their exhibits which were destroyed by the burning
of the Garden Palace :—
- John Corbett, Esq., M.P., Stoke Prior Salt-works, Worcestershire :—
A collection of varieties of manufactured salt.
- Dr. William Davis, Cheltenham :—
A collection of his educational works.
- Conrad Icke, Esq., Wickham, Newcastle, N.S.W. :—
A collection of New South Wales ores, with samples of the metals extracted therefrom by the
exhibitor.
- J. E. Fletcher, Esq., Collingwood, Nelson, New Zealand :—
Samples of New Zealand timbers.

Herr

* See foot-note to Appendix III.

- Herr F. Rammé, Hamburg :—
A collection of anatomical models in papier mâché.
- Mrs. Henrietta Vansittart, Twickenham, London :—
A model of the "Lowe-Vansittart" screw-propeller for steamships.
- Messrs. J. C. Gostling & Co. (Limited), Gracechurch-st., London :—
A series of specimens to illustrate the manufacture of Portland cement.
- Messrs. George Philip & Son, London and Liverpool :—
A collection of maps, atlases, and educational works.
- Messrs. John Brinsmead & Sons, Wigmore-st., London :—
A History of the Pianoforte.
- Messrs. Woollams & Co., High-st., Manchester-square, London, W. :—
Samples of their manufactures for wall-decoration; also specimens of their non-arsenical pigments.
- Messrs. H. W. Caslon & Co., Chiswell-st., London, E.C. :—
Specimens of type, &c.
- The Patent Ball-Castor Co. (Limited), 218, Upper Thames-st., London, E.C. :—
Samples of the patent ball-castors.
- The Morgan Crucible Co., Battersea, London, S.W. :—
Samples of the manufactures of the company.
- The Superintendent of the Geological Survey of India :—
Publications of the Survey; also Indian Geological Specimens.
- The Surveyor-General of South Australia :—
Maps and plans.
- Thomas Whiffen, Esq., Battersea, London :—
Specimens of cinchona and other barks, together with samples of the alkaloids extracted therefrom.

APPENDIX V.

List of Specimens, Apparatus, &c., purchased during the year 1882.

- Diagrams of laboratory fittings in the South Kensington Museum.
- Diagrams of blast-furnace, gas-works, glass-house.
- Illustrations of the following manufactures :—Needle, pin, steel-pen, paper.
- Set of Professor Willis's apparatus for teaching statics.
- Air-pump; spectroscope, and other apparatus to illustrate lectures on "Light."
- Thirty-eight cases of chemicals and chemical apparatus.
- Two hundred and eighty-seven dozen stoppered bottles (assorted).
- Forty-four air-tight show cases, chiefly from South Kensington Museum patterns.
- A collection of wool, hair, silk, &c., in seventeen glazed show-cases, from P. L. Simmonds, Esq., London.
- Fifty-five pieces of porcelain from the Worcester Royal Porcelain Co. (Limited).
- Forty-four pieces of art pottery from Messrs. Doulton & Co., Lambeth, London.

J. H. MAIDEN,
Curator.

The Technological, Industrial, and Sanitary Museum of New South Wales.

This Museum is intended to occupy a similar position and fulfil the same purpose in this Colony which the South Kensington Museum, the Bethnal Green Museum, the Museum of Practical Geology, the Patent Office Museum, and the Parkes Museum of Hygiene do in London. To this end, it is intended to collect together typical collections of all materials of economic value belonging to the animal, vegetable, and mineral kingdoms, from the raw material through the various stages of manufacture, to the final product or finished article ready for use.

It is intended that the following shall be more or less completely represented:—

- 1. Animal products, and specimens to show the methods followed in their preparation and manufacture, their uses for clothing, textile fabrics, domestic and ornamental purposes, their applications in pharmacy, dyeing, perfumery, &c.*
- 2. Vegetable products, from the raw material through the various stages of manufacture to the finished fabric or other article. This section will include gums, resins, oils, woods, fibres, tans, dyes, drugs, perfumes.*
- 3. Waste products, whether of animal, vegetable, or of inorganic origin, with illustrations of their utilization.*
- 4. Foods, animal and vegetable, their constituents, with their adulterations. Dietary tables and information concerning the chemical composition and other important particulars regarding the human foods of the world will be displayed.*
- 5. Economic entomology: the specimens will be so arranged as to enable the public to discriminate between insects which are injurious to man and those which work for his benefit, and to show the insects in all stages of growth, and specimens of the materials which they have destroyed or injured. Where it is impossible to exhibit actual specimens, the life history of the insects in question will be illustrated as far as possible by models and diagrams.*
- 6. Economic geological specimens, showing the ores of the metals, their manufacture and uses; mineral combustibles; building and ornamental stones; lithographic and other stones; clays, cements; substances employed in the manufacture of glass, pottery, porcelain; pigments of inorganic origin, &c. Architectural and building examples will be associated with this collection; also precious stones, their artificial production and imitation. The uses of many of the specimens in this collection will be shown practically by incorporating them with the building itself in the form of pillars, doorways, window-sills, by laying down portions of the floor, steps, or inlaying the walls of the Museum.*
- 7. Chemical and pharmaceutical products.*

8. Educational apparatus and appliances, school fittings, books, maps, diagrams, &c.; collections of scientific apparatus and of specimens for High Schools and Colleges. A collection of this kind is of the greatest possible value to teachers, who can thus see and examine everything required in a school, and can directly compare the merits of the different books, fittings, and appliances as supplied by different makers and recommended by various authorities.
9. Sanitary and hygienic appliances and systems, adapted to public works, domestic architecture, personal health, clothing, and habits of life.
10. Mining, engineering, and machinery; models, plans, drawings, tools, machinery, and appliances. Metallurgical products.
11. Military and naval armaments, ordnance, fire-arms, &c. Models of ships of war and mercantile vessels.
12. Agricultural tools, appliances, and machinery; also soils, manures, &c. In this section will be included mineral fertilizing substances, e.g., gypsum, phosphate of lime, marls, shells, coprolites, &c., not manufactured.
13. Specimens and series of specimens illustrative of miscellaneous manufactures.
14. Models, drawings, and descriptions of patents; special attention will be paid to those which are likely to prove of use in the Colonies, or which have been taken out in Australia.
15. Ethnological specimens.
16. Samples of historical furniture and of artistic workmanship in iron and other metals. Ceramics, pottery, and porcelain, &c. (exclusive of sanitary appliances).
17. Photographs, electrotype, plaster, and other reproductions of examples of art workmanship where originals are not to be obtained.
18. Exhibition catalogues, trade journals, price lists, and descriptions of new processes or industries. The information afforded to manufacturers, merchants, and tradesmen by a collection of this kind will be of incalculable value. A library and reading-room will constitute important adjuncts to the Museum.

Sufficient concise information will be attached to each exhibit or group to satisfy without wearying the visitor, a full description being given in the catalogues. The prices paid for specimens and their commercial value will be indicated wherever possible, as it is a matter in which visitors usually take very great interest. The value of gifts will never be affixed where donors express wishes to the contrary.

Sydney,

21st January, 1857.

J. H. MAIDEN,

Curator and Secretary.

LIST OF DONORS

TO THE

TECHNOLOGICAL, INDUSTRIAL, AND SANITARY MUSEUM

OF

NEW SOUTH WALES.

The Governments of—

Bengal, Bombay, Central Provinces of India, Ceylon, Fiji, Madras, New South Wales, New Zealand, North West Provinces of India, South Australia, Straits Settlements, Tasmania, Victoria, Western Australia, Austria, and Hungary, Germany, Holland, Switzerland, and Japan.

The Right Honorable The Earl Granville, K.G.
The Right Honorable The Earl of Dudley.

Messrs. Andrae & Gruneberg, Leopoldshall, Germany.
Askania Act. Co., Leopoldshall, Germany.
Associated Chemical Works, Leopoldshall, Germany.
Messrs. O. F. Alsen & Son, Itzehoe, Germany.
" L. Antoine & Son, Paris.
" A. J. Arrowsmith & Co., London.
" Askham Bros. & Wilson, Sheffield.
Australian Asbestos Co., New South Wales.
Auckland Harbour Board, New Zealand.
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" C. Brandauer & Co., Birmingham.
" J. Brinsmead & Sons, London.
" Bickford, Smith, & Co., Tuckingmill, Cornwall.
" John Brown & Co. (Limited), Sheffield.
" Bemrose & Sons, Derby.
" Boing & Dormann, Germany.
Joseph Bosisto, Esq., M.P., Melbourne.
Herr T. F. Borgfeldt, Berlin.
British & Foreign Blind Association, London.
Professor Barff, M.A., London.
George Bower, Esq., St. Neots, Hunts.
Berthon Boat Co. (Limited), London.
Bay of Islands Coal Co., New Zealand.
Captain Barrack, Fiji.
Bernard Birnbaum, Esq., London.
Miss Blaxland, Sydney.
Charles Bowman, Esq., London.
M. Bottelier, Belgium.
Box's Patent Ball Castor Co. (Limited), London.
The Proprietor Balmadies Coffee Estate, Madras.
John Bell, Esq., London.
Messrs. John Bolding & Sons, London.
The British Association for the Advancement of Science.

Cesena Sulphur Co., Italy.
Concordia Chemical Factory Co., Leopoldshall, Germany.
The Proprietors of the Cootamundra and Chowdikadu Coffee Estates, Madras.

Messrs. Christoffe & Co., Paris.
" F. C. Calvert & Co., Manchester.
" T. & C. Clark & Co., Wolverhampton.
" H. W. Caslon & Co., London.
" Crowther & Mitchell, Western Australia.
" Carew & Co., Shahjahanpur, Bengal.
" Chance Bros., Birmingham.
G. Cochrane, Esq., Edinburgh.
John Corbet, Esq., M.P., Stoke Prior Salt Works.
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" Dalmege, Reid, & Co., Ceylon.
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" De Grauw, Aymar, & Co., New York.
M. Charles Delacre, Paris.
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James Dunnachie, Esq., Glasgow.
D. A. T. Dissanaiké, Esq., Ceylon.
W. F. Dique, Esq., Madras.
Dr. Wm. Davis, Bristol.

Educational Supply Association, London.
Messrs. Elliott Bros., Sydney.
Heer B. H. Egberts, Dalfsen, Holland.
The Proprietors, Ellembellary and Eliza Coffee Estates, Madras.

Friedrich's Smelting House, Leopoldshall, Germany.
Farnley Iron Co., Leeds.
Messrs. Thos. Farmer & Co., London.
Mrs. Franks, Sydney.
Herr Otto Fennel, Cassel, Germany.
T. E. Fisher, Esq., Fiji.
W. A. Fernando, Esq., Ceylon.
J. E. Fletcher, Esq., Collingwood, New Zealand.
J. Fountain, Esq., New South Wales.
J. Trant-Fischer, Esq., Sydney.
The Proprietor, Fairlands Coffee Estate, Madras.

Messrs. Goodlet & Smith, Sydney.
" Joseph Gillott & Sons, Birmingham.
" J. C. Gostling & Co. (Limited), London.
" Guthrie & Co., Singapore.
" Gilfillan, Wood, & Co., Singapore.
The Gospel Oak Iron Co., London.
The Proprietor of "The Graphic," London.
The Proprietors, Glenvans and Goatfel Coffee Estates, Madras.
Herr H. Gruson, Magdeburg, Germany.
M. Guerlain, Paris.
James Gardner, Esq., New South Wales.
The "Ginori" Manufactory, Florence.
The Geographical Bureau, Tokei, Japan.
Gist & Spiritus Fabriek de Nederlandsche, Delft, Holland.
R. Renton Gibbs, Esq., Liverpool.

Hoffmann Patent Steam Brick Co., Melbourne.
Health Society of New South Wales.
Messrs. Hell & Sthamer, Schönebeck, Germany.
" Heyl Bros., Berlin.
" W. S. Holland & Co., Burlington, U.S.A.
" Hart & Roux, Sydney.
Capt. R. M. Hunter, Rockhampton.
H. L. Holmes, Esq., Fiji.
Wm. Hennings, Esq., Fiji.
Henry Hulton, Esq., Fiji.
Captain Hill, Fiji.
The Proprietors, Hilgrove and Hallacarey Coffee Estates, Madras.
W. Hoey, Esq., Lucknow.
Herr Heitmann, Leipsic, Germany.
Harkort Bridge Co., Germany.
Hokianga Saw-mill Co., New Zealand.
Herr H. Herrenschildt, New South Wales.
Messrs. Hayward, Tyler, & Co., London.

Signor Ingoglia, Montevogo, Italy.
 C. Icke, Esq., New South Wales.
 Messrs. Ingram & White, New Zealand.
 The Proprietor, Ingledwood Coffee Estate, Madras.
 The Publisher of "The Ironmonger," London.
 Messrs. Ihlee & Horne, London.

Herr Charles Jansky, Tabor, Bohemia.
 George Jennings, Esq., London.
 The Chevalier Jervis, Turin, Italy.
 S. Jacoby, Esq., Melbourne.
 La Société anonyme des Verreries nationales de Junet,
 Belgium.
 The Johns Manufacturing Co., New York.
 Messrs. W. & A. K. Johnston, Edinburgh.

The Director, Royal Botanic Gardens, Kew, London.
 Messrs. Kock & Reis, Antwerp.
 " A. Knös & Co., London.
 Heer G. W. Kieffer, Leeuwarden, Holland.
 Kali and Stein Salt Mine, Douglashall, Germany.
 Dr. G. King, Calcutta.
 The Proprietor, Kodanaad Coffee Estate, Madras.

Professor Liversidge, F.R.S., Sydney.
 Julius Levy, Esq., Sydney.
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 Lithgow Valley Pottery Co., New South Wales.
 Messrs. Lindemann & Co., Stassfurt, Germany.
 " Lobeck & Co., Dresden, Germany.
 " Lloyd & Lloyd, Birmingham.
 " G. & W. Leechman, Ceylon.
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 " August Leonhardi, Dresden, Germany.
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 Thomas Lloyd, Esq., Winchester.

Messrs. Maigatter, Green, & Co., Leopoldshall, Germany.
 " Muller & Allihn, Leopoldshall, Germany.
 " Mander Bros., Wolverhampton.
 " Marshall, Sons, & Co. (Limited), Gainsborough.
 " M'Leod Bros., Dunedin, New Zealand.
 " M'Evoy & Kelsall, Fiji.
 " Meyer & Henckel, Copenhagen.
 " Morris, Wheeler, & Co., Philadelphia.
 " Mac Brair Bros., Sydney.
 Alexr. Macpherson, Esq., Brisbane.
 Herr F. Muller, Leopoldshall, Germany.
 H. M. Milton, Esq., Sydney.
 Mataura Paper-mill Co., Otago, New Zealand.
 E. M'Caffrey, Esq., Queenstown, New Zealand.
 G. M'Evoy, Esq., Fiji.
 Hon. J. E. Mason, Fiji.
 A. F. Mercier, Esq., Melbourne.
 P. Magrath, Esq., Yass, New South Wales.
 H. B. Medicott, Esq., M.A., Calcutta.
 Messrs. Mason Bros., Sydney.
 The Morgan Crucible Co., London.

Messrs. C. Nette, Faulwasser, & Co., Leopoldshall, Germany.
 L. Nicolls, Esq., Robertsbridge, Sussex.
 Messrs. Nettlefolds, Birmingham.
 The Curator, Nagpur Museum, India.
 The Proprietor, Nedimbaley Coffee Estate, Madras.
 Messrs. Noble & Co., London.

Société anonyme de la Fabrique de fer d'Ougrée, Belgium.
 Iron and Steel Works, Osnabrück, Germany.
 Oamaru Stone Co., New Zealand.
 Messrs. Oliver & Boyd, Edinburgh.
 " Oppel & Co., Friedrichshall, Germany.
 Charles O'Neill, Esq., Wellington, New Zealand.

Her Majesty's Commissioners of Patents.
 Messrs. A. & F. Pears, London.
 The Phosphor-Bronze Co. (Limited), London.
 The Penang Sugar Estates Co. (Limited), Straits Settlements.
 Professor A. Pirz, New York.
 J. H. Peterson, Esq., Fiji.
 Messrs. G. Philip & Son, London and Liverpool.

Henry Patterson, Esq., Rylstone, New South Wales.
 Daniel De Pass, Esq., London.
 Messrs. Paterson, Simons, & Co., Singapore.
 " Pfaff, Reichenbach, & Co., Melbourne.
 " J. Purnell & Son, London.

M. J. Rasquin, Liege, Belgium.
 Herr F. Rammé, Hamburg.
 Royal Mine Inspection, Stassfurt, Germany.
 Messrs. H. H. Rischmeyer & Co., Hamburg.
 " Reideburg & Moller, Hanburg.
 " Reckitt & Sons (Limited), Hull.
 " Ryder Bros., Fiji.
 " Roberts & Co., Coconada, Madras.
 Jefferson Read, Esq., Birmingham.
 E. Rudder, Jun., Esq., Macleay River, New South Wales.
 The Rockhampton Committee, Melbourne International
 Exhibition, 1880.
 The Rewa Plantation Co., Fiji.
 Alfred Roberts, Esq., M.R.C.S., E., Sydney.
 R. Hurry Row, Esq., Tanjore, Madras.
 Messrs. Relfe Bros., London.
 Religious Tract Society, London.

The Stassfurt Associated, Leopoldshall and Douglashall Salt
 Industry, Stassfurt, Germany.
 The Proprietors, New Stassfurt Salt-mines, Germany.
 The Stassfurt Chemical Factory, Germany.
 The Shotts Iron Co., Glasgow.
 La Società Terra Bolari, Siena, Italy.
 The Proprietor, Sussex Coffee Estate, Madras.
 Messrs. Schmidt, Devilly, & Co., Dampremy, Belgium.
 " Solvay & Co., Couillet, Belgium.
 " C. Smith & Son, London.
 " Stanes & Co., Madras.
 " Schmedes, Erbsloh & Co., Melbourne.
 " Stevens & Kyle, Albany, New South Wales.
 Herr G. Schuppan, Berlin.
 " D. Samuely, Brünn, Austria.
 E. Stanford, Esq., London.
 G. Sparagnapane, Esq., London.
 E. Stratton, Esq., Tamworth, New South Wales.
 The Surveyor General of New South Wales.
 The Surveyor General of South Australia.
 Messrs. Archibald Smith, & Stevens, London.

The Telegraph Construction and Maintenance Co. (Limited),
 London.
 Messrs. Jas. Thompson & Co., Kendal.
 Thomas Twining, Esq., London.
 Hon. J. B. Thurston, Fiji.
 Messrs. Toeh & Co., Belgium.
 The Trustees, Public Library, Museum, and National Gallery
 of Victoria, Melbourne.

Union Iron Co., Dortmund, Germany.
 J. Unite, Esq., London.
 The United Asbestos Co. (Limited), London.

Verreries de Mariemont, Belgium.
 Victorian Department of Mines, Melbourne.
 The Sanitary Engineering and Ventilation Co., London.
 Mrs. Henrietta Vansittart, London.
 Rouppe van der Voort & Lewin, s'Hertogenbosch, Holland.

Washburn and Moen Manufacturing Co., Worcester, U.S.A.
 Union Iron and Wire Co., Hamm, Westphalia.

Worcester Royal Porcelain Co. (Limited), Worcester.
 Messrs. Wustenhagen & Co. Hecklingen, Germany.
 " Thomas Webb & Sons, Stourbridge and Sydney.
 " W. Woollams & Co., London.
 The Proprietor Waverley Coffee Estate, Madras.
 Thomas Whiffen, Esq., London.
 George Whitfield, Esq., Toodyay, Western Australia.
 D. Waterston, Esq., Fiji.

Young's Paraffin Light and Mineral Oil Co. (Limited),
 Glasgow.
 Zimmer & Co., Stassfurt, Germany.

Sydney, 31st January, 1883.

J. H. MAIDEN,

Curator and Secretary.



The Technological, Industrial, and Sanitary Museum of New South Wales.

THE Museum has been placed on the Free List of the following Journals, to the publishers of which the thanks of the Committee of Management are due and tendered :—

American Monthly Microscopical Journal (New York).
American Bookseller (New York).
Boot and Shoe Trades Journal.
Bullettino Telegrafico (Rome).
Bookseller.
British Trade Journal.
Fireman.
Ironmonger.
Index Medicus (New York).
Journal of Forestry.
Lumière Électrique (Paris).
Library Journal (New York).
Literary News (New York).
Metal
Manufacturer and Builder (New York).
Martineau and Smith's Hardware Journal (Birmingham).
Publishers' Weekly (New York).
Paper-makers' Monthly Journal.
Paper-makers' Circular.
Plumber and Decorator.
Scientific American (New York).
Symons' Monthly Meteorological Magazine.
Telegraphic Journal and Electrical Review.

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

Druggists' Circular.
Engineering and Mining Journal (New York).
Jeweller and Metal-worker.
Leather Trades' Circular.
Paper Consumers' Circular.
Textile Manufacturer (Manchester).

J. H. MAIDEN,
Curator and Secretary.

Sydney,
31st January, 1883.