### LEGISLATIVE ASSEMBLY.

# NEW SOUTH WALES.

# AUSTRALIAN MUSEUM.

(ANNUAL REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30 JUNE, 1923.)

Presented to Parliament pursuant to Act Ao. 61, 1902, Sec. 10.

Printed under No. 15 Report from Printing Committee, 20 December, 1923.

To His Excellency the Governor,-

The Trustees of the Australian Museum have the honor to submit to your Excellency their Sixty-ninth Report, being for the year ended 30th June, 1923.

### 1. TRUSTEES.

It is with great regret that the Trustees report the death, on 16th June, of Mr. George McRae, formerly Government Architect, who has been a Trustee since May, 1921. Mr. McRae's expert knowledge was always placed freely at the disposal of the Board, and his death is a severe loss.

The following is a list of the Trustees, with a record of their attendances at Board Meetings; there were eleven ordinary meetings during the year:—

Official Trustees.   Statutory—		$C_1$	own T	rustee.						
His Honor the Chief Justice	Mr. James McKern	***				***	***	•••		10
His Honor the Chief Justice		Off	icial T	ruoteec						
His Honor the Chief Justice	Statutoru	0,11	Cras 1	rusices						
The Hon. the Colonial Secretary					***					-
The Hon. the Attorney-General							***		***	-
The Hon. the Colonial Treasurer					***			***		-
The Auditor-General  *The President of the Medical Board (Dr. T. S. Dixson, President)		***	***	244				***		
### Appointed—  The Hon. the President of the Legislative Council  The Crown Solicitor	The Auditor-General						***	***	***	7.00
### Appointed—  The Hon. the President of the Legislative Council  The Crown Solicitor	*The President of the Medical Box	ard (D	r. T. S	. Dixso	n, Pres	sident)		***	***	9
The Hon. the President of the Legislative Council  The Crown Solicitor										
The Crown Solicitor  The Surveyor-General and Chief Surveyor  The Hon. the Secretary for Public Works and Minister for Railways  The Hon. the Minister for Education  Elective Trustees.  *Prof. W. A. Haswell, M.A., D.Sc., F.R.S  *Prof. Sir T. W. E. David, K.B.E., C.M.G., B.A., F.R.S  Mr. W. H. Hargraves  *Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C  *Mr. Ernest Wunderlich, F.R.A.S  *Mr. J. Vernon  The Hon. D. Levy, B.A., LL.B., M.L.A  Mr. J. J. Fletchay M.A. B.Sc  11	The Hon the President of the Le	oislat	ive Cor	incil		***		***		-
The Surveyor-General and Chief Surveyor The Hon. the Secretary for Public Works and Minister for Railways  The Hon. the Minister for Education  *Prof. W. A. Haswell, M.A., D.Sc., F.R.S  *Prof. Sir T. W. E. David, K.B.E., C.M.G., B.A., F.R.S  *Solve Trustees.  *Prof. Sir T. W. E. David, K.B.E., C.M.G., B.A., F.R.S  *Solve Trustees.  **Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C  **Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C  **The Hon. D. Levy, B.A., LL.B., M.L.A  **The Hon. D. Levy, B.A., LL.B., M.L.A								***		-
The Hon. the Secretary for Public Works and Minister for Railways  The Hon. the Minister for Education						***	***	***		1
### Frof. W. A. Haswell, M.A., D.Sc., F.R.S	The Hon, the Secretary for Publi	e Wo	ks and		ter for	Railwa	ys	***	***	-
#Prof. W. A. Haswell, M.A., D.Sc., F.R.S	The Hon, the Minister for Educa	tion	***	***	***	***	***	***	***	-
*Prof. W. A. Haswell, M.A., D.Sc., F.R.S										
*Prof. W. A. Haswell, M.A., D.Sc., F.R.S		Ele	ective 1	Trustees						
*Prof. Sir T. W. E. David, K.B.E., C.M.G., B.A., F.R.S.  Mr. W. H. Hargraves  Dr. Eric Sinclair  *Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C.  Dr. J. R. M. Robertson  *Mr. Ernest Wunderlich, F.R.A.S.  Dr. G. H. Abbott, B.A.  Mr. J. Vernon  The Hon. D. Levy, B.A., LL.B., M.L.A.  Mr. I. I. Elstebar, M.A. B.S.  11	*Prof W A Haswell M A D Sc	FR	S						***	
Mr. W. H. Hargraves          6         Dr. Eric Sinclair         6         *Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C.        4         Dr. J. R. M. Robertson         4         *Mr. Ernest Wunderlich, F.R.A.S.          4         Dr. G. H. Abbott, B.A. <td< td=""><td>*Prof Sir T W E David K B.E</td><td>CM</td><td>.G., B.</td><td></td><td></td><td></td><td>***</td><td>***</td><td>***</td><td></td></td<>	*Prof Sir T W E David K B.E	CM	.G., B.				***	***	***	
Dr. Eric Sinclair       *Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C.       **         *T. J. R. M. Robertson       **         *Mr. Ernest Wunderlich, F.R.A.S.       **         *Dr. G. H. Abbott, B.A.       **         *Mr. J. Vernon       **         *The Hon. D. Levy, B.A., LL.B., M.L.A.       **         **       ** <td< td=""><td></td><td></td><td></td><td>***</td><td></td><td></td><td></td><td></td><td>***</td><td></td></td<>				***					***	
*Colonel The Hon. Sir James Burns, K.C.M.G., M.L.C					***	***	***	***	***	6
Dr. J. R. M. Robertson   .			C.M.G.	, M.L.	J	4.65		4.64	***	11/2
Mr. Ernest Wunderlich, F.R.A.S						***	444	***	33.55	
Mr. J. Vernon	*Mr. Ernest Wunderlich, F.R.A.S		444	***	***	1655	***	***		
Mr. J. Vernon			***	+++	***	***		***		
The Hon. D. Levy, B.A., LL.B., M.L.A				4+4	***	(888)	***			
Mr. 1 Historian M.A. B.Sc.		M.L.	1	4.1.4	***					
	Mr. J. J. Fletcher, M.A., B.Sc.	***	111	***	***					3
Mr. G. McRae	Mr. G. McRae	***	4.6.5	100	***	***	2.4.4	.0.0.0	19.83	

<sup>\*</sup> Leave of absence for part of the year.

To facilitate the work of the Board, three Sectional Committees, elected yearly in December, meet monthly and make recommendations on matters coming within their purview. The House Committee deals generally with all questions affecting the staff, and such matters as structural improvements, alterations, and additions; the Scientific and Publication Committee controls the publications of the Museum and the acquisition and exchange of specimens and publications; the Finance and Publicity Committee supervises the finances of the institution and devises measures for the purpose of popularising the Museum and making its contents and educational advantages better known to the public.

The members of these Committees and their attendances are given below; the President is ex officio a member of each committee. At the December meeting certain changes in personnel were made, Mr. Wunderlich taking the place of Mr. Coghlan on the Finance and Publicity Committee. Mr. Coghlan was elected on the House Committee, and the members of the Scientific and Publication Committee were re-elected.

Finance and Publicity Committee-			House Committee—	
Mr. Coghlan (Chairman till Dec.)	***	4	Mr. McKern (Chairman till Dec.)	) 7
Mr. Wunderlich (Chairman)	49.4	5	Mr. Coghlan (Chairman)	6
Mr. McKern		11	D D:	7
Mr. Hargraves		9	Professor Haswell	5
Sir James Burns		-	Mr. Hargraves	5
Mr. Vernon		4	Dr. Robertson	4
			Mr. McRae	5
Twelve meetings were held.			Eleven meetings were held.	
Scientific	and	Public	cation Committee—	
Dr. Sinclair (Chairman)		6	Professor David	2
Professor Haswell		7	All Carrier Control of the Control o	6
Mr. Fletcher	***	9		
Eleven meetings were held.				

A Special Committee was appointed to arrange for a public function in connection with the completion of the boundary wall and rearrangement of the grounds on the William-street frontage. The committee, consisting of the President, Dr. Sinclair, Mr. McKern, and Mr. McRae, met on 14th May, and reported to the Board on 1st June.

### 2. Scientific Staff.

Several changes have taken place during the year. The Scientific Staff was strengthened by the inclusion on 3rd November of Mr. W. S. Dun, Palæontologist to the Geological Survey and Lecturer on Palæontology at the University of Sydney, as Honorary Palæontologist.

The following is a list of the Scientific Staff as at 30th June, 1923:-

Name and Office.	Name and Office.								
Charles Anderson, M.A., D.Sc., Director Charles Hedley, Principal Keeper of Collections Allan R. McCulloch, Zoologist in charge of Fish Wm. W. Thorpe, Ethnologist J. Roy Kinghorn, Zoologist in charge of Birds, I	ies		***		22 July, 1 April, 1 July, 9 Oct., 1 Sept.,	1901 1899		1921 1906 1906	
Ellis Le G. Troughton, Zoologist in charge of M Anthony Musgrave, Entomologist	amma	ds and S	keletor	18		1908 1910	4 Feb., 4 Feb., 1 June,	1921	
F. A. McNeill, Zoologist in charge of Lower Inv T. Hodge Smith, Mineralogist and Petrologist Professor T. Harvey Johnston, M.A., D.Sc., Ho	***		***	***	18 May, 18 July, 18 Feb.,	1914 1921 1908	3 Feb., 3 Mar., 5 Mar.,	1922	
Edw. F. Hallmann, B.Sc., Hon. Zoologist A. F. B. Hull, Hon. Ornithologist	***	***	***	***	9 June, 7 Sept.,	1909 1917	1 April, 7 Sept.,	1912	
G. A. Waterhouse, B.Sc., Hon. Entomologist H. J. Carter, B.A., Hon. Entomologist Professor L. Harrison, B.Sc., B.A., Hon. Zoolog	rist.	•••	***		3 Oct., 2 July, 1 July,	1919 1920 1921	3 Oct., 2 July, 1 July,	1919 1920 1921	
E. & Briggs, B.Sc., Hon. Zoologist W. S. Dan, Hon. Palæontologist	***	***	***	***	1 June, 3 Nov.,	1912	1 July, 1 July, 3 Nov.,	1921	

For a list of the other members of the staff see Appendix I.

## 3. BUILDINGS AND GROUNDS.

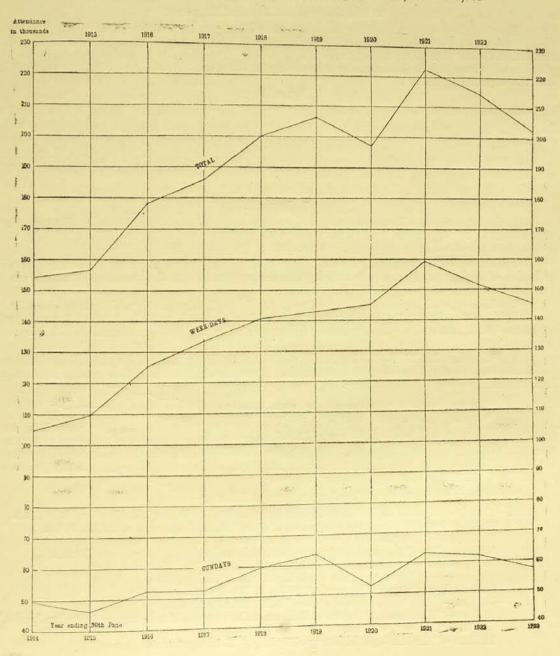
Tenders having been called for the erection of a boundary wall and improvement of the William-street frontage, and for the construction of a roadway from William-street to the rear of the Museum premises, that of the Constructor of Buildings was accepted, and work was commenced in November. The work is now well forward and will be completed very shortly. Great improvement in the appearance of, and the approaches to, the building has been achieved. The electric light service has been extended and now supplies the offices in the south wing, and other rooms which were previously badly lighted. Electric power has also been provided to drive the printing machine, resulting in a great economy of labour and time.

An enlargement of the premises is an urgent necessity, and the Government has been approached with a request that an extension of the existing buildings be authorised, and that a sum of money be placed on the Loan Estimates so that a start may be made with this very necessary work. The exhibition and storage rooms, and also the library, have long been overcrowded, and, if a section of the comprehensive plan prepared years ago were completed, much needed relief would be obtained.

# 4. ATTENDANCE OF VISITORS.

The decline in attendance shown for the last two years is probably a result of the drought and the consequent reduction in the number of country visitors.

		S	Summ	ary.			
Year.					Week-days,	Sundays.	Total.
1913-1914 (1	st July to	30th June	)		104,830	49.313	154,243
1914–1915	2)	23			109,922	46,611	156,533
1915–1916	23	33			125,978	52,669	178,647
1916–1917	,,,	23			133,645	52,399	186,044
1917-1918	333	33	***		140,977	59,920	200,897
1918–1919	"	***	***		142,977	63,520	206,497
1919–1920	33	22			145,058	52,490	197,548
1920-1921	93	23			159,576	63,016	222,592
1921-1922	2)	,,	***	***	151,544	62,889	214,433
1922-1923	"	22	***	***	145,271	57,600	202,871



#### 5. Exhibits.

The most important new exhibits installed during the year are the Coral Pool and the Admiralty Islets Bird Group. As in the case of the Boatswain Bird Group described in last year's Annual Report, the specimens, materials, and notes necessary for the construction of these fine exhibits were obtained at Lord Howe Island by a Museum party under the leadership of Mr. A. R. McCulloch. In each case the background was painted by Mr. H. R. Gallop. The cost was largely defrayed by a donation from Messrs. A. E. and O. Phillips, Sir James Burns, Sir Hugh and Mr. William Dixson, to whom the grateful thanks of the Trustees are tendered.

The Coral Group depicts a pool on the edge of the Lord Howe Island coral reef, where all the rocks are covered with living corals of many kinds. Associated with the corals is a wealth of animal life, which finds shelter in the crevices of the reef and a plenteous food supply. Brilliantly coloured fishes gather round holes and channels in the reef edge, and starfishes and sea urchins are seen burrowing among the coral. On the sandy floor of the pool are some black, slug-like sea cucumbers or bêche de mer.

The exhibit was prepared by Messrs. G. C. Clutton and J. Kingsley of the Museum staff; the colouring was done from life by Miss P. F. Clarke.

The Bird Group represents a corner of a nesting colony of five species of sea birds which annually visits the Admiralty Rocks at Lord Howe Island. A rocky ledge in the foreground is crowded with the nesting birds, their eggs and young. The graceful Wide-awake Terns are the most numerous; Grey-capped Noddies perch upon the few available bushes; Mutton birds are seen in burrows or crevices in the rocks. A bulky mother Gannet and its young are conspicuous by their size. In the background is the lofty island of Lord Howe, with a stretch of blue water in the middle distance.

This exhibit is the work of the Taxidermists, Messrs. H. S. Grant, J. H. Wright, and W. Barnes.

### 6. THE AUSTRALIAN MUSEUM MAGAZINE.

Four numbers appeared during the year, containing popular articles on a variety of natural history subjects. The demand for copies continues good, and we have had inquiries from the other Australian States, from New Zealand, and from America. The Trustees hope that this magazine will play an important part in disseminating a knowledge of the ethnology and the animal life of Australia and the surrounding Pacific.

### 7. Essay Prize.

Mr. George A. Taylor, Editor of Building, has generously presented five guineas to be awarded as a prize for the best essay by a pupil of a New South Wales school, the subject being "A Visit to the Australian Museum." The competitors, who must be between the ages of twelve and sixteen on 1st March, 1924, may select any department, or may write a general account of the whole institution, the essay to contain 1,500 to 2,000 words. The last day for receiving essays is 1st March, 1924. The successful essay will be published in the Australian Museum Magazine.

### 7. LIBRARY.

During the year the library acquired by purchase and exchange 414 volumes, besides loose parts and reprints. Arrangements have been made with additional scientific institutions whereby their publications are obtained in exchange for ours.

The damp condition of the basement continues to be a cause of concern. Here is housed the valuable collection of foreign serials, and it is only by unceasing vigilance that the formation of moulds can be prevented.

The Library, whilst primarily one of reference for the Staff, is frequently used by research students, including those of neighbouring States and the nearby Dominion of New Zealand, who fully realise and appreciate its extensiveness. Artists and designers also make appeals for assistance which is readily granted.

The Librarian, Mr. W. A. Rainbow, as in previous years, has supervised the production of Museum publications and rendered considerable assistance in the work of editing. Attention to matters related to lectures has also occupied his attention.

### 8. Lectures.

The series of popular lectures held during the year was most successful, the attendances being very large, taxing the capacity of the Lecture Hall to the utmost; frequently many would-be hearers have not been able to obtain even standing room. Now that the electric light is available a new projection lantern has been installed, namely, the Graphoscope Junior Projector, which is adapted to show ordinary slides or cinema films, and has proved very satisfactory.

The subjects and lecturers during the year were as follows :-

- 1922—13 July—" Insects as Causative Agents and Carriers of Disease," L. Harrison, B.Sc., B.A.
  10 August—" Odds and Ends of a Bush Walk," F. L. Grutzmacher, F.C.S., F.G.S.
  31 August—" Travels in North Queensland," Dr. J. V. Danes,
  13 September—" National Parks and Memorials to Explorers," Sir James Barrett.
  14 September—" Spiders: their Structure and Habits," A. Musgrave.
  12 October—" Romance of the Coral Reefs," E. A. Briggs, B.Sc.
  9 November—" Aquatic Mammals," E. Le G. Troughton.

  1923—12 April—" The Mud People of Papua," A. R. McCulloch.
- - 10 May-" The Past and Future of Wild Animals, with special reference to Australian Species," A. S. Le Souef, C.M.Z.S.
  - 14 June-" The Geological History of Sydney," T. Hodge Smith.

The Museum Extension Lectures were continued, and during the year the following lectures were delivered in suburban and country centres :-

1922—3 July—" Life in Past Ages," Dr. C. Anderson (Mechanics' Institute, Goulburn).

19 July-" Geology of Sydney District," T. Hodge Smith (Newtown School of Arts).

14 September-" Formation of the Blue Mountains and the Coastal Plain," T. Hodge Smith (Penrith School of Arts).

30 October-" Who's Who Among the Reptiles," J. R. Kinghorn (Mechanics' Institute, Goulburn).

1923-1 June-" The Romance of Gold Mining in New South Wales," T. Hodge Smith (Teachers' Federation, Goulburn).

On two occasions Mr. W. W. Thorpe gave anthropological demonstrations in the Museum to members of the Eugenics Section of the Workers' Educational Association.

#### 9. Collecting.

Through lack of funds it has not been possible to carry out many extensive collecting operations during the year, but short field trips have been made by various members of the staff.

Mr. A. R. McCulloch was granted official leave to accompany Captain Frank Hurley to New Guinea. He was away from 29th August, 1922, till February, 1923, and brought back a valuable Ethnological and Zoological collection.

Mr. A. F. Basset Hull, Honorary Ornithologist, and Cadet A. A. Livingstone, were collecting in Southern Queensland for three weeks in July and August, obtaining a valuable series of marine invertebrates.

Mr. H. O. Fletcher accompanied Mr. G. H. Halligan on an exploring trip to Lake Eyre, Central Australia, being away from 26th July until 23rd August.

Messrs. A. Musgrave and W. Barnes joined a party led by Prof. L. Harrison to make a preliminary biological survey of the Myall Lakes district, New South Wales, bringing back a number of interesting mammals, birds, and invertebrates.

Messrs. J. R. Kinghorn, H. O. Fletcher, and J. H. Wright visited the Upper Colo district, New South Wales, in October, and made collections of mammals, birds, and reptiles; cordial thanks are due to the Under Secretary, Department of Agriculture, and to the Principal, Hawkesbury Agricultural College, for assistance in connection with this trip.

In October Mr. T. Hodge Smith spent three days at Ardglen, New South Wales, investigating the rocks and minerals of the Railway quarry.

Mr. C. Hedley, who is the representative of the Trustees on the Committee for Investigation of the Great Barrier Reef, left Sydney on 18th May, 1923, to join a party led by Prof. H. C. Richards, which proceeded along the Barrier Reef from Cairns northward to Thursday Island, making landings at various points.

In April the Director and Mr. A. Musgrave spent ten days on the Belubula River, near Mandurama, New South Wales, making collections in the caves and the neighbourhood. It was hoped that fossil bones might be found in the cave earth, but none were seen.

In June the Director, accompanied by Mr. W. S. Dun, Honorary Palæontologist, paid a short visit to Cuddie Springs, Gilgoin Station, near Brewarrina, New South Wales, where, there is good reason to believe, an extensive deposit of extinct marsupials and other vertebrates has been formed in a mud flat surrounding a "mound spring" or swamp. The locality was inspected with a view to its systematic development and it is hoped that work may shortly be commenced on this important fossiliferous deposit.

### 10. CURATORIAL WORK.

Mammals (Mr. E. Le G. Troughton in charge).—Interesting donations from the Taronga Park Zoological Trust included various marsupials, an antelope, monkeys, and a female and young of the "Australian Fur Seal" (Otaria cinerea). Notable private donations included the following:—A "Three-toed Echidna" or "Spiny Ant-eater" (Zaglossus bruijnii) from His Excellency Judge Murray, Lieut.-Governor of Papua; a pouched mouse (Phascogale), and a "Ring-tailed Opossum" from a very interesting locality from Mr. H. L. White: two indigenous rate, which were invaluable for study purposes, from locality, from Mr. H. L. White; two indigenous rats, which were invaluable for study purposes, from Prof. F. Wood Jones; a skin of a recently described wallaby (Macropus welsbyi) from Mr. A. H. Chisholm; several specimens of the rare "Honey Mouse" (Tarsipes spensera) from Mr. D. Morgan, Western Australia; several native rodents, including specimens of the "Stick-nest Building Rat" (Lepovillus conditor) from Mr. A. S. Le Sande, and A. S. Le Sande, and Mr. A. S. Le Sande, and Mr. A. S. Le Sande, and A. S. Le Sa Mr. A. S. Le Souef; a collection of rodents and marsupials, part of the collection of the late Robert Grant from Mr. H. S. Grant.

Exchanges yielded excellent material, which included native rodents from the Queensland Museum and the American Museum of Natural History, and a topotypical specimen of the recently discovered, Pearson's Island Wallaby (Petrogale pearsoni) from Prof. F. Wood Jones.

A fine series of the rare and interesting "Honey Mouse" (Tarsipes spenserae) was purchased, forming a valuable addition to the marsupial collection.

During the year systematic improvement of the collection has been effected by the naming of hitherto unidentified species, concurrently with the study of recent additions of marsupials, redents and bats; the Taxidermists are removing skulls from old skins of the latter to enable a revision of the Fruit Bats being made. The wired mammal skins in boxes were sorted, the card catalogue checked, specimens of a fragile nature or special interest being removed to more suitable storage. The mammal and osteological galleries were treated with disinfectants and cases repapered, new labels being reprinted where nec ssary

At the request of the Bureau of Science and Industry a general report on local seals was compiled and was acknowledged in complimentary terms by that Institution and the Prime Minister's Department: A paper on "The Bats of Australia and New Guinea" was prepared for publication; it has already been of service for identifying unnamed species in the collection.

The following papers were published during the year:-

"A Revision of the Rats of the genus Leporillus and the status of Hapalotis personata Krefft," Rec. Austr. Mus., xiv, l, 1923, pp. 23-41, pls. v-vi.

"Notes on Australian Bats, and the occurrence of Chalinolobus gouldii Gray at Norfolk Island," Austr. Zoologist, iii, 1, 1922, pp. 39-41.

Skeletons (Mr. E. Le G. Troughton in charge).—A fine series of human crania, originally from a very interesting locality in the centre of Newcastle, New South Wales, was donated by Dr. H. Martin Doyle, M.L.C.; other crania were donated by Mr. A. J. Vogan and Mr. C. Hedley. Three skulls of "Tree Kangaroos" were presented by Mr. H. S. Grant.

Seventy-two crania and six skeletons were cleaned by the Articulators, providing further valuable material for study.

An excellent collection of thirty-eight mammals, including a "Spiny Ant-eater" (Tachyglossus), marsupials, and native rodents, was secured by Messrs A. Musgrave, W. Barnes, and H. Burrell at Myall Lakes, New South Wales. A very interesting collection of Mammals was obtained by Mr. A. R. McCulloch in Papua, including marsupials, indigenous rodents of several genera, and Fruit Bats (Pteropus papuanus). Three Rock Wallabies (Petrogale pearsoni) were collected by Messrs. J. R. Kinghorn, H. Wright, and H. O. Fletcher.

Birds (Mr. J. R. Kinghorn in charge; Mr. H. O. Fletcher assistant).—During the year 246 specimens were added to the collection, the donations totalling 153, while those collected number 193.

Mr. H. O. Fletcher has completed the catalogue of the reference and duplicate collections, and is now engaged in rearranging and bringing together all birds of a kind which were previously distributed throughout many cabinets. The galleries have been thoroughly overhauled and attended to by Mr. H. S. Grant and his assistants, Messrs. J. H. Wright and W. Barnes, who also partly rebuilt and improved the background of the Antarctic Case. The Boatswain Bird group was completed, and is a most excellent piece of work. Mr. Kinghorn has given several lecturettes or demonstrations within the Museum, as well as at meetings of the Royal Australasian Ornithological Union, and occasional help has been given to the Checklist Committee (in Melbourne) by the loan of bird skins for comparative purposes. A selection of sea birds was sent on loan to Dr. Leverett Mills Loomis of the California Academy of Sciences, and many others have been lent to Mr. N. W. Cayley in connection with his work "Cayley's Birds of Australia."

Several papers and articles have been published in *The Emu* and the *Australian Museum Magazine*. Paper published:—

"On the Status of several Species belonging to the Genera Fregetta sp., and Fregettornis Matthews" (in co-authorship with N. W. Cayley), The Emu, xxii, part 2, pp. 81-97, pls. xxvi-xxix.

Reptiles and Amphibians (Mr. J. R. Kinghorn in charge; Mr. H. O. Fletcher assistant).—During the year 344 specimens were received, and out of the total number 106 were donated, 155 exchanged, and 53 collected.

One of the most valuable additions received during the year was a perfect specimen of the Fly River Turtle (Carettochelys insculptus), which was collected by Mr. A. R. McCulloch while in Papua with Captain Frank Hurley, who presented a carapace and two skulls (lacking mandible) of the same species. A rare sea snake and several other interesting reptiles were also collected by Mr. McCulloch. A new genus and species of an Elapine Snake, collected by Mr. W. McLennan, was presented by Mr. H. L. White of Belltrees, Scone, and was fully described in the Museum Records.

Several lecturettes and demonstrations were given in the galleries.

A number of bird and reptile skeletons have been prepared by Mr. G. C. Clutton and his assistant Mr. J. Kingsley, and a splendid cast of an American Alligator (A. mississippiensis) has been completed, this being coloured by Miss H. E. Bailey.

The galleries have received full attention by Messrs. G. C. Clutton, H. S. Grant, and W. Barnes, while the spirit-house collections have been attended to by Messrs. Kinghorn and Fletcher.

The number of letters answered during the twelve months was double that of last year,

The following paper has been published :-

"A New Genus of Elapine Snake from North Australia," Rec. Austr. Mus., xiv, 1, pp. 42-5, pl. vii.

Fishes (Mr. A. R. McCulloch in charge; Cadet G. P. Whitley assistant).—The appointment of a junior assistant, Mr. G. P. Whitley, in this department has greatly facilitated the work, and the large reference collection has benefited accordingly. Although Mr. McCulloch was absent collecting in Papua during a considerable portion of the year, many improvements were effected in the spirit-house under the supervision of Mr. F. A. McNeill. A rearrangement of the spirit collections made room for a large series received from the Fisheries Department some years ago, thus allowing the whole fish collection to be brought together under one roof. A specially valuable collection of American and Hawaiian fishes, including many taken by the Fisheries Survey vessel "Albatross" and forwarded to the Fisheries Department by the United States National Museum, was intercalated with our reference collection; the Trustees are indebted to the United States National Museum for complete lists of identifications and data of these specimens, which were unlabelled when received at this institution. Exceedingly interesting collections have also been received from Mr. E. H. Rainford, made in the neighbourhood of Bowen, Queensland, and from Mr. R. Baxter of Lord Howe Island.

The exhibition collections have likewise received some interesting additions, and fine casts of large specimens, including two Eels and a Stone-lifter, have been prepared and coloured. These have been substituted for discoloured spirit specimens and inferior stuffed examples, and have added considerably to the interest of the gallery.

The card index has also been revised and the cards of all different sections brought under one head, so one may now see at a glance what is in the collection. The contents of the large tanks are being systematically overhauled, checked, resorted, and finally wrapped in butter-muslin for their better protection.

The following papers have been published :-

"Notes and Illustrations of Queensland Fishes, No. 3," Mem. Qld. Mus., vii, 4, 1922, pp. 241-4, pl. xiv. "Notes on Fishes from Australia and Lord Howe Island," Rec. Austr. Mus., xiv, 1, 1923, pp. 1-17, pls. i-iii.

"Notes on New Zealand Fishes" (in co-authorship with Mr. W. J. Phillipps), Ibid., pp. 18-22, pl, iv.

The identification of the deep water fishes collected by the trawler " Endeavour," interrupted for a considerable time, has now been put in hand again, and a report upon them is in preparation.

Insects and Arachnids (Mr. A. Musgrave in charge; Cadet T. G. Campbell assistant). - During the year a number of important donations were received, among which may be mentioned a large collection of insects from Cape York and Banks Island, Torres Strait, collected by Mr. W. McLennan and presented by Mr. H. L. White of Scone, a valuable collection of miscellaneous insects from Papua presented by Dr. E. O. Pockley, and a number of insects from the Northern Rivers District presented by Mr. A. Musgrave. To Mr. A. F. Basset Hull we are indebted for a collection of insects from King Island, Bass Strait, to Dr. E. W. Ferguson for types of recently described Australian Dipters, and to Mr. G. Goldfinch for a collection of Australian Moths.

A number of collecting trips were made during the year, one being the result of an offer made by Prof. L. Harrison of the University of Sydney for representatives of the Museum to accompany a party of students to the Myall Lakes, Messrs. Musgrave and Barnes proceeding with the party and returning with a number of insects and arachnids. A party under Mr. J. R. Kinghorn, which collected at the Upper Colo River secured a number of insects which form a useful addition to the collection. Mr. A. R. McCulloch, who accompanied Captain F. Hurley to Papua, has presented to the department a series of valuable insects collected by him on the Fly River and other localities rarely visited by white men. A trip to the Belubula Caves was undertaken by Dr. Anderson and Mr. Musgrave, several hundred insects being secured in the vicinity of the caves. In view of the inroads made on the breeding grounds of our local insect fauna by the expansion of the city, several trips were made by Messrs. Musgrave and Campbell in order to secure specimens.

The principal work of the department has been the revision and rearrangement of the Australian Coleoptera, the revision and cataloguing of our Australian Arachnida, while the rearrangement of the gallery with the writing of labels has occupied a considerable amount of time. In addition, routine work, such, as the labelling, identification, and registration of the large collections received, as well as the writing of minutes on material submitted by the public for determination has absorbed much time. Mr. Musgrave speaks highly of the ability of Cadet Campbell, who has conducted the affairs of the Department during Mr. Musgrave's absence on collecting trips.

The following articles were published in the Museum Magazine:-

"Stick and Leaf Insects," by A. Musgrave, i, 6, pp. 177–181.

"A Naturalist in the Chichester Valley," by A. Musgrave, i, 7, pp. 193–6.

"The Yellow Monday Cicada," by A. Musgrave, i, 7, pp. 204–8,

Mollusca (Mr. C. Hedley in charge; Miss J. K. Allan, assistant).—A memoir on the Australian Turridæ, to which reference has been made in several previous Reports, was issued last September. Dealing with the most numerous and difficult family in the mollusca and being one of the largest single contributions to Australian Conchology, it has been received with satisfaction by students both at home and abroad. The land shells have now been taken up by Mr. Hedley for a corresponding revision, and progress on this group is now reported.

Part of the cabinet collection has been revised and rearranged, but want of room interrupted this

work, which will be continued as soon as the necessary space becomes available.

Numerous teaching collections have been made up and issued to school museums. As usual, many

collectors and inquirers have been assisted both personally and by correspondence.

Further parcels of Cephalopoda have been despatched to Dr. Stillman Berry of California. We hope to receive from that authority an important paper dealing with the Cephalopoda of this State.

A pair of admirable enlarged models of chitons were prepared and presented by Mr. R. Hawkins. Mr. W. L. Longley gave a series of local shells polished and mounted as articles of jewellery. A series of mollusca from King Island was presented by Mr. A. F. Basset Hull; a collection from New Caledonia by Mr. A. J. Vogan; from the Trobriand Islands by Mrs. Auback; and from Kangaroo Island, South Australia, by Mr. A. H. Anderson. The following were collected by the staff: A series of marine mollusca from Daru, Papua, by Mr. A. R. McCulloch, and a series of land and fluviatile mollusca from the neighbourhood of the Belubula Caves by Dr. C. Anderson and Mr. A. Musgrave.

Marine Invertebrata (Mr. F. A. McNeill in charge; Cadet A. A. Livingstone, assistant).—During the year working card catalogues of the Bryozoa and the slide collection of Vermes have been prepared, and the reclassification, checking, and card cataloguing of the Decapoda and Stomatopoda in spirit is on the verge of completion. The dry collection of Crustacea was seriously attacked by fungoid growths while accommodated in one of the store sheds, but has now been removed to better quarters. The contents of the cabinet are being carefully examined and the growths removed with the aid of carbolic acid solution. At the same time a card catalogue of this material has been prepared and the specimens relabelled. The fumigation of the extensive gallery and dry store collections has been regularly attended to, and several new labels written for the more interesting exhibits. Some time was devoted to the card indexing of current literature on the Decapoda for the purpose of facilitating the identifications of species of this group, and

for research purposes.

A continuation of last year's exchange of Echinodermata with Dr. T. Odhner, of Stockholm, has been the means of securing for the Museum many additional and interesting species not previously represented in the collection. The enthusiasm of Mr. E. H. Rainford of Bowen, Queensland, has been the means of adding still further batches of valuable tropical species to the large collections received from this gentleman in the previous year. His principal donation was a series of the large and beautifully tinted starfish (Pentaceros nodosus) from the Port Denison district. Each of the specimens was cleverly coloured from life and the whole make an attractive gallery exhibit.

The manuscript of two reports on the material collected by the F.I.S. "Endeavour" has come to hand during the year. That on the Amphipoda by Dr. Chas. Chilton, Canterbury College, New Zealand, has been dealt with in conjunction with the specimens concerned, and is now in print. The other report, by Dr. Waldo Schmitt, of the United States National Museum, describes several families of the Decapoda Macrura. The specimens on which this last work is based have only recently been received from America, and work on them and the manuscript is in progress. We continue to forward batches of Isopoda and Amphipoda to Dr. Chas. Chilton, whose identifications have enabled us to greatly enlarge our knowledge of the Australian species of these crustaceans. Under this happy arrangement we have brought many interesting forms under the notice of Dr. Chilton, who has already contributed a series of Notes for publication in the Museum Records.

Under an agreement with Dr. G. Stiasny, of Leyden, Holland, we have collected and forwarded series of several local species of Scyphomedusæ. This worker proposes to revise the researches made in the 'eighties by Baron R. von Lendenfeld, and is to return named duplicates to the Australian Museum.

On the 29th of July, Cadet A. A. Livingstone embarked on a three weeks' collecting trip to Queensland, under the charge of Mr. A. F. Basset Hull, Honorary Ornithologist. Collections were made at Noosa Head, Point Cartwright, and Caloundra. The specimens secured included many species of Bryozoa and

Decapoda, among which were several forms quite new to the collections.

Short day trips to Gunnamatta Bay, Manly, Maroubra, Long Reef, and North Harbour, have resulted in greatly enriching our field knowledge, and at the same time procuring for the Museum additional

specimens of the often neglected local fauna.

A party comprising members of the Naturalists' Society of New South Wales were conducted on an extensive tour through the Australian Mammal and Invertebrate galleries. Many letters of inquiry have been attended to and information given to a number of callers.

The following paper and articles were published during the year :-

"Notes on Australian Decapoda," by Allan R. McCulloch and F. A. McNeill, Austr. Mus. Rec., xiv, 1, 1923, pp. 49-59, pls. ix-xi.

"Experiences and Impressions of a Collecting Trip on a Trawler," by A. A. Livingstone, Austr. Mus.

Mag., i, 6, 1922, pp. 171-6. "Crustacean Camoufleurs," by F. A. McNeill, Austr. Mus. Mag., i, 8, 1923, pp. 243-6.

"Life and Strife among the Sea Birds," by A. A. Livingstone, Austr. Mus. Mag., i, 8, 1923, pp. 251-2.

Ethnology (Mr. W. W. Thorpe in charge; Mr. H. O. Fletcher assistant).—The chief donations during the year were :- A number of Maori stone adze and axe blades by Dr. R. Stopford, M.L.A.; cylindro-conical stones and axes, Darling River district, by Mr. H. S. Officer; human skull and stuffed head, Fly River, New Guinea, by Mr. P. T. W. Black; an extensive collection of various stone implements from Western New South Wales, by Mr. C. J. McMaster; carvings and other ethnological specimens from New Caledonia, by Mr. A. J. Vogan; spears and arrows from New Caledonia, by Madame Chabert; cuirass, skull, and domestic implements by the Acting Administrator of Papua; the South Pacific Collection of the late Captain W. H. Steele, by Mrs. S. A. Steele; shell currency from the Solomon Islands, by Mrs. M. M. Hobbs; aboriginal stone axes, by Mr. A. D. Bertram.

Purchases included three human skulls with restored features from the Sepik River, New Guinea; a series of weapons and domestic implements from the New Hebrides; stone figures from the Baining

District, New Britain.

By exchange with the Copenhagen Museum we acquired a collection of Eskimo articles, including models of an igloo and of canoes. An elaborate feather head ornament from New Guinea was received in exchange with Captain Frank Hurley.

A large collection illustrating the culture of the Delta, Gulf, and Western Division of Papua, including specimens from the upper reaches of the Fly River and from Lake Murray, was made by

Mr. A. R. McCulloch in conjunction with Captain Frank Hurley.

The various collections have been maintained in good order although with increasing difficulty, as the storage sheds where the large reserve collections are housed are very defective owing to leakage and structural deterioration.

The chief ethnographical installations were a case of small objects from New Caledonia and the Loyalty Islands, and another containing bead work and ornaments from the Solomons and Santa Cruz. During the year the extensive and valuable collection of ethnological articles, mostly from the Pacific Islands, made by the late P. G. Black, was offered to the Trustees, who were obliged to decline the

purchase for lack of funds.

The following articles were published during the year :-

"The Palolo Worm," by W. W. Thorpe, Austr. Mus. Mag., i, 7, p. 220.

"Primitive Fire Production," by W. W. Thorpe, Austr. Mus. Mag., i, 8, pp. 249-251.

Palwontology (The Director and Mr. W. W. Thorpe in charge) .- Additions to the collection comprise a series of Permo-carboniferous invertebrates and Triassic plants purchased from Mrs. Mewton and a collection of Tertiary sharks' teeth from Mr. H. Matthias. By exchange with the Prague Museum we obtained a fine collection of Palæozoic fossils from Bohemia, and a magnificent cast of the skull and

lower jaw of the gigantic carnivorous dinosaur Tyrannosaurus rex was received in exchange from the American Museum of Natural History. This skull has been exhibited along with the fine cast and thigh bone of the Camarasaurus received last year from the same institution, and the two form a very striking exhibit. A fine restoration of the skull and mandible of the extinct turtle, Miolania platyceps, of Lord Howe Island, has been prepared by Mr. J. Kingsley, Articulator's assistant. A paper describing some remains of this fossil and a new Miolania from Walpole Island, near New Caledonia, is in course of preparation.

Mr. W. S. Dun, Honorary Palæontologist, gave valuable assistance during the year.

Numismatics (Mr. W. W. Thorpe in charge).—The principal donations were:—A set of eleven gold, silver, and bronze coins issued by the South African Republic in 1892, by Brigadier-General Reuter E. Roth, C.M.G., D.S.O., V.D.; three service medals with ribbons and clasps, by the British South Africa Company; eight service medals with ribbons and clasps, by the Honorable the Secretary of State for India; two service medals with ribbons, by the Secretary for Defence, Union of South Africa. These were obtained through official action on the part of the Department of Education and the courtesy of the Agent-General for New South Wales, and the opportunity is taken of expressing our gratitude to the Department and to Sir Timothy Coghlan for their efforts on behalf of the Museum. Eight service medals with ribbons and clasps were purchased from the Imperial Government.

Requests for identification of coins have increased in number to a remarkable extent, and Mr. Thorpe has spent much time in attending to this demand and generally creating an interest in the study of

numismatics.

Minerals and Rocks (Mr. T. Hodge Smith in charge).—Over 850 specimens were registered during the year, of which 519 consist of material collected by the Australasian Antarctic Expedition. As in former years Mr. D. A. Porter has presented a number of minerals from the New England District, New South Wales. A fine collection of moldavites from Bohemia were obtained by exchange with the Royal Bohemian Museum through the kindness of Dr. J. V. Danes. Much valuable material has been acquired by exchange with Mr. Inspector George Smith of the Department of Mines, and with Mr. W. T. Watkin Brown. An excellent group of calcite crystals from Belubula Caves, near Carcoar, New South Wales, has been presented by Miss Judy Hosie, and placed in the gallery. A collection of minerals containing a number of rare minerals from Broken Hill, New South Wales, has been purchased from Mrs. N. Mewton of Petersham. A number of Italian minerals have been acquired by purchase.

Much time has been spent in working out the origin of the zeolites in the basalt at the Railway Quarry, Ardglen, New South Wales, and it is hoped that the work will soon be completed. The difficulty

of procuring microscope slides is still a serious handicap to the work of the Department.

During the latter part of the year an effort to supply the need of schools for minerals and rocks has been made, and two hundred specimens have been distributed. Special thanks are due to Mr. D. A. Porter and the Broken Hill Proprietary for having very generously assisted by the donation of suitable material for this work.

"Mineralogical Notes, No. 1," is ready for the press.

Spirit-house Collections (Mr. F. A. McNeill in charge; Cadet W. Boardman, assistant).—The timely arrival of a purchase of glassware has allowed work in this section to advance unimpeded. Much work on the distribution of the collections has been taken in hand and periodical inspections have been made so that evaporation of spirit from the bottles may be prevented. The condition of the preservative and specimens contained in the large slate vats is excellent; no recurrence of the dreaded fungoid growths, which played such havoc some years ago, is apparent. A busy year has been experienced in the assembling and despatching of all kinds of collecting gear for use in the field by members of the Museum staff and interested outsiders.

11. Acquisitions.

			No. of Specimens.								
Department.		Donation.	Exchange.	Purchase.	Collection.	Prepared.	Total.				
Vertebrates—					12		215				
Mammals		139	9	22	45	********	211				
Birds	1444	131	*******	******	80	*******	153				
Reptiles		99	1	********	53						
Fishes	14.4	742	2	4	344	********	1,092				
Skeletons		36	******	*******	1	*******	01				
nvertebrates—				200	2000		2,029				
Mollusca		1,628	31	20	350	******					
Insects, Arachnida	122	2,751	99	*******	788	*******	3,638				
Crustacea	124	473	7	*******	320		680				
Lower Invertebrates		255	*******	********	425	*******	000				
leological—	-				540		792				
Fossils		52	496	242	2		863				
Minerals	7	630	98	60	75		000				
Ethnological, etc.—					100000		952				
9979	1222	419	85	86	362	*******					
Historical			*********	********	*******		73				
		53	8	12	*******	*********	10				
Numismatical Miscellaneous—							76				
	2400	11	65	********	Therese.	*********	20				
		1	2			17	68				
Casts and Moulds		5	**********		********	63					
Negatives	***		*******		*******	225	225				
Lantern Slides		12	********	31	222222	3	46				
Photographs		12	3.000.000.000		VIII VIII VIII VIII VIII VIII VIII VII	10000	27.000				
Total		7,437	903	477	2,845	308	11,970				

# 12. FINANCIAL;

# Statement of Receipts and Expenditure for the year ended 30th June, 1923.

	Endow- ment Account.	Public Account.	Totals.		Endow- ment Account.	Public Account.	Totals.
Balance from last year	£ s, d. 987 5 2	£ s. d.	£ s. d. 987 5 2	Salaries— Director, and Principal Keeper of Collections		£ s. d.	
Parliamentary Appropriations— Salaries Contingencies	77777	13,213 8 9 2,014 1 5	15,227 10 2	First-class Scientific Assistants Cadets and General Assistants Cierical Staff Preparators and Mechanics	111111	1,558 0 3 2,693 6 6 729 0 0 1,280 3 0 2,185 13 10	
	1,000 0 0		1,000 0 0	Attendants	******	2,924 13 7	11,370 7
ale of Publications— Records Post Cards Nest and Egg Catalogue	1 16 2 7 10 0			Trustees' Contributions Employees' ,,		1,259 14 4 533 6 9	1,793 1
Catalogues	0 7 6		302 11 9	Contingencies— Overtime and Sundays Pensions Insurance		442 10 6 329 19 3 235 5 5	
Ligazine Advertisements	32 18 9		134 0 0	Building and Maintenance— Cases Repairs		281 16 5 138 4 7	
aterest from— Reserve Account Resumption Account Seventh War Loan Peace Loan City Council Deposit	10 15 0 25 0 0		32 18 9 183 8 1	Statutory and Additional Endowment— Working Expenses Purchase of Specimens Tools and Plant Catalogues, Publishing of— Records	210 18 10 350 1 7	343 5 11 0 5 0 70 8 11	
Resumption Account to Endow- ment Account	250 0 0 2,000 0 0		2,250 0 0	Purchase or Books	157 13 9 152 19 6 85 16 6 79 10 10	24 19 6 21 5 2	
				Transfer Resumption Account to Endowment Account	250 0 0	87 10 0	4,957 17 250 0 87 10
£	4,890 3 9	15,227 10 2	20,117 13 11	Balance £	231 1 4 4,890 3 9	15,227 10 2	231 1 20,117 13

List of Investments:—						£	s.	d.
Seventh War Loan, at 5 per cen	t	***	***	***	***	500	0	0
Peace Loan, at 5 per cent	***	2000		4.0	1994	400	0	0
City Council Deposit	***	***	***	***	***	3,100	0	0

Examined and found correct,-

1st August, 1923.

N. BLACK, Senior Inspector of Public Accounts.

The Common Seal of the Museum was hereunto affixed by order of the Board, this 2nd day of October, 1923.

T. STORIE DIXSON, President. C. ANDERSON, Director.

13. APPENDICES.

The following Appendices are attached, viz.:-

- 1. General Staff of the Australian Museum.
- 2. List of the Publications of the Australian Museum.
- 3. Catalogue of the Additions to the Library.

### APPENDIX I.

General Staff of the Australian Museum at 30th Jane, 1923 :-

	Name of	Office.					Date of first appen in the Mu	itment	Date of appointment present pos	it to
Miss C. M. J. Allan, Ass	istant in C	oncho	logy	***			5 Feb.	1917	5 Nov.	1920
Arthur A. Livingstone, (	Cadet	***	***	***	***	***	24 May,	1920	24 May.,	1920
Thomas G. Campbell, Ca		***	9.66	***	***		13 Dec.,	1920	13 Dec.,	192
J. P. Whitley, Cadet		***	***	***	10.00		18 April.	1922	18 April,	192
W. Boardman, Cadet		***	****	***	***		18 April,	1922	18 April,	192
H. O. Fletcher, General	Assistant	***	***	***			6 Aug.,	1918	16 May.	192
Wm. A. Rainbow, Libra	rian	***	24440	***			13 July,	1902	1 Oct	191
F. D. McCarthy, Library	y Assistant				3888	410	29 Mar.,	1922	29 Mar.,	192
Ins. A. Trimble, Accoun	tant, and	Secret	ary to	Directo	or	***	1 July,	1909	1 Oct.,	191
F. A. Murphy, Clerk		***	***	414			1 May.	1911	1 Oet.,	191
H. Doyle, Messenger		***	***	***	7446	***	16 May,	1922	16 May,	192
Jas. W. Woodhead, Prin	nter	444	***	2000			27 Sept.,	1897	27 Sept.,	189
Thos. A. Henson, Actific	er		***	***			1 May.	1902	6 Oct.	192
G. Chas. Clutton, Articu	lator	***		2000	***		25 April,	1904	I May,	191
Henry S. Grant, Taxide	rmist	***		****	***		5 Oct.,	1909	2 Mar.,	191
J. H. Wright, Assistant	Taxidermi	ist	***	***			13 May,	1908	5 Nov.,	191
Joseph Kingsley, Assist.	ant Articu	lator	***	****			21 July,	1913	21 July.	191
Herbert Jackson, Assist	ant Artific	er					9 June,	1910	6 Oct.,	192
W. Barnes, Assistant Ta	axidermist	1202	0.00	222	222	222	11 Feb.,	1907	1 June,	192
Arthur Barnes, Chief At	ttendant	***		1444	***	-	7 Dec.,	1897	1 July,	192
T. Johnston, Senior	do	***	1777	155		****	20 20	1915	1 July,	192
Alexander Mackay, Atte	endant	0.00	1444				13 Mar.,	1915	1 July,	192
E. T. Hill	do		***		***		8 Oct.,	1917	8 Dec.,	191
D. Massey	do						8 Dec.,	1917	4 Nov.,	191
A. B. Welsh	do						4 Nov.,	1918	10 Oct.,	192
E. G. Morris	do						10 Oct.,	1921	2 June,	199
W. A. Medway	do						2 June,	1922	13 Mar.,	191
F. L. Haylings	do						T Tasker	1922	1 July,	19:
H. W. Stein	do	***			***			1922	1 July,	193
Mrs. K. Fraser	do	***	***		***		1 A	1889	1 April,	188
John Watson, Night	do		***	***	***		0 34	1914	1 July,	193
T. Glazebrook do	do	***	***		***		11 Nov.,	1922	11 Nov.,	19

The Trustees regret to report that Murdock Mackay, who had served faithfully as Night Attendant since September, 1915, died on 3rd November, having retired on 9th October on three months' leave. Mrs. K. Fraser, after a period of absence on half-pay, returned to duty as Woman Attendant on 19th May, replacing Miss G. E. Barnes, who had held the position since 1st July, 1922.

#### APPENDIX II.

List of Available Publications of the Australian Museum :-

I .- Annual Reports.

Nos. 28-33, 1881-6; 36-44, 1889-1897; 46-67, 1921.

### II.—Catalogues.

- Catalogue of the Australian Birds in the Australian Museum, by E. P. Ramsay. Part I, Accipitres, 1876. Part II, Striges, 1891. (Second edition, revised by A. J. North, 1898). Part III, Psittaci, 1891. Part IV, Halcyones, 1894.
- 6. Catalogue of the Library of the Australian Museum, 1883. With two Supplements.
- 7. Catalogue of a Collection of Fossils in the Australian Museum. With Introductory Notes by F. Ratte. 1883.
- 9. Descriptive Catalogue of the General Collection of Minerals in the Australian Museum, by F. Ratte. 1885.
- Catalogue of Echinodermata in the Australian Museum, by E. P. Ramsay. Part I, Echini, 1885. Second edition, 1890.
- 13. Descriptive Catalogue of the Sponges of the Australian Museum, by R. von Lendenfeld. 1888.
- 14. Catalogue of the Fishes in the Australian Museum. Part I, Palæicthyan Fishes. By J. Douglas Ogilby. 1888.
- Catalogue of the Marine Shells of Australia and Tasmania, by J. Brazier. Part I, Cephalopoda, 1892. Part III, Pteropoda, 1892. Part III, Gasteropoda (Murex), 1893.
- Catalogue of Australian Mammals, with Introductory Notes on General Mammalogy, by J. Douglas Ogilby. 1892.
- 17. Descriptive Catalogue of the Tunicata in the Australian Museum, by W. A. Herdman. 1899.

### III. - Special Catalogues.

 Nests and Eggs of Birds found Breeding in Australia and Tasmania, by A. J. North. Vol. I, 1901-1904. Vol. II, 1906-1909. Vol. III, 1910-1912. Vol. IV, 1913-1915.

#### IV .- Monographs.

 Australian Lepidoptera and their Transformations, by A. W. Scott, with illustrations by his daughters, Mrs. Morgan and Mrs. Forde, Vol. I, 1864. Vol. II, edited and revised by Mrs. Forde and A. S. Oliff, 1890-98.

### V. - Memoirs.

- 1. History and Description of the Skeleton of a new Sperm Whale in the Australian Museum, by W. S. Wall. 1851.
- The Atoll of Funafuti, Elliee Group: Its Zoology, Botany and General Structure, based on Collections made by C. Hedley. 1896-1900.
- Scientific Results of the Trawling Expedition of H.M.C.S. "Thetis," off the Coast of New South Wales, in February and March, 1898, 1899-1914.

#### VI.-Records.

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

Vol. iii, 1897–1900; vol. iv, 1901–3; vol. v, 1903–5; vol. vi, 1905–8; vol. vii, 1908–10; vol. viii, 1910–13; vol. ix, 1912–3; vol. x, 1913–5; vol. xi, 1916–7; vol. xii, 1917–21; vol. xiii, Nos. 1–6, 1920–3; vol. xiv, No. 1, 1923.

## VIII. - Miscellaneous Publications.

- 1. List of Old Documents and Relics in the Australian Museum, 1884. Reprinted with additions. 1890.
- Descriptive List of Aboriginal Weapons, Implements, etc., from the Darling and Lachlan Rivers, by K. H. Bennett. 1887.
- 4. Hints for the Collectors of Geological and Mineralogical Specimens, by F. Ratte.
- 5. Hints for the Preservation of Specimens of Natural History, by E. P. Ramsay. 1891. 4th Edition.
- List of Museum Publications prepared and arranged by S. Sinclair, Secretary and Librarian, assisted by W. A. Rainbow, Assistant-Librarian. 1916.

IX .- The Australian Museum Majazine.

Vol. i, Nos. 4-8, 1922-3.

# APPENDIX III.

# ADDITIONS TO THE LIBRARY.

	Parks Ho	TO THE LI		1
Reg. No	Books, Ho		Books,	How acquired
20322	PART I.—AUTHORS,  AMEGHINO, Florentino. Obras completas y Correspondencia Cientifica. Volumen III,	20296	GOULD, John. A Monograph of the Macropo- dide, or Family of Kangaroos. 1 vol. Fol. London, 1841-42.	
*	La Antigüedad del Hombre en el Piata. D.rigüda por Alfredo J. Torcelli. 1 vol. 4to. La Plata, 1915. Purchi	20383	GREGORY, William K. The Origin and Evolution of the Human Dentition. 1 vol. Sm. 4to. Baltimore, 1922.	
20299-3	00 BARRETT, James W. The Twin Ideals, an Educated Commonwealth. Volumes I-II.	20328	HALL, Robert. Australian Bird Maps. 1 vol. 8vo. Hobart 1922	Purchased
20369-7	2 vols. 8vo. London, 1918. Presen 0 BRANDT, J. F. und J. T. C. RATZEBURG, Medizinische Zoologie oder getreuse Dar- stellung und Beschreibung der Thiere, die in	20325	HARTMANN, J. D. W. Erd-und Susswasen- Gasteropoden. Hefts 1-4. 1 vol. 8vo. St. Gallen, 1840. HECKEL, Johann J. Beiträge zur Kenntniss	Purchased
	der Arzneimittellehre in betracht kommen, in systematischer folge herausgegeben von Bands I-II. Text and Plates. Present 2 vols. 4to. Berlin, 18 9, 1833. by Dr.7	rd 20301	der Fossilen Fische Osterreichs. Atlas (XV Tafeln).  1 vol. Fol. Wien, 1856. IDDINGS, Joseph P. Igneous Rocks. Com-	Putchased
20349	Dixon, Preside BREARLEY, Harry. The Analytical Chem-		position and Texture, Classification, des- cription and occurrence, 1st Edition. Vol. II.	-
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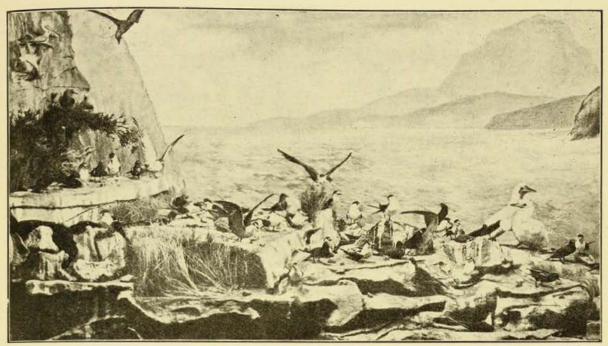
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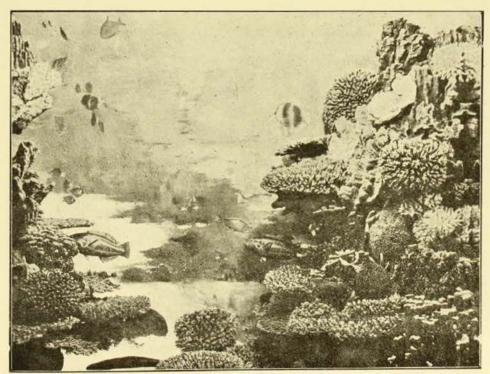
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The Lord Howe Island Coral Group.

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