1926. (SECOND SESSION.)

LEGISLATIVE ASSEMBLY.

NEW SOUTH WALES.

# AUSTRALIAN MUSEUM.

(ANNUAL REPORT OF THE TRUSTERS FOR THE YEAR ENDED 30 JUNE, 1925.)

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

(Printed under No. 1 Report from Printing Committee, 13 October, 1926.)

To His Excellency the Governor.

The President and Trustees have the honor to submit the Seventy-first Annual Report of the Australian Museum and take the opportunity of therein setting out in a concise manner the salient features of the work of the financial year 1924-25.

This report includes the report of the Secretary and reports of the Director and officers in charge of the Scientific Departments of the Museum, which reveal in detail the activities and functions of the several branches. These various reports, embodying as they do the results obtained in the year under review, indicate the progress of the Museum and serve to show that the work of the Museum was maintained as effectively as possible during the past year, taking into consideration the curtailment of much new and progressive work in view of the financial needs of the Institution.

The Australian Museum may claim to have reached a high state of efficiency, for although its primary duty is to preserve the objects confided to its care, yet its higher responsibilities necessitate the objects being put to their full and proper use in the dissemination of knowledge. The great task to which the Museum has directed itself from the first has been to extend the boundaries of education, and the Australian Museum has come to be recognised as a conspicuous factor in the advancement of learning, not only in our own State but in the prominent countries of the world possessing scientific institutions.

Of those institutions entirely dependent upon Government support, patronage or alliance, the Australian Museum is the oldest in Australia.

Founded in 1836 the Museum has now functioned continuously for ninety years.

The time has arrived when the present galleries and storage space are discovered to be totally insufficient for Museum purposes. In the meantime in their present crowded and inadequate state the work of the Museum is being sustained in as high a degree of efficiency as in the circumstances is possible.

# 1. Trustees.

Mr. Octavius C. Beale was elected a Trustee on the 1st August, 1924, filling the vacancy caused by the death of Mr. John Vernon, which occurred on the 14th June, 1924.

It is with every sense of profound regret that record is made of the deaths of Mr. W. H. Hargraves and Dr. Eric Sinclair.

Mr. W. H. Hargraves was elected a Trustee on the 1st October, 1901, and continued to serve actively on the Board of Trustees and in Committee to the date of his death, which occurred at Stanmore on the 9th April, 1925. He had devoted himself with zeal and unselfish effort to all that made for the advancement of the Museum and his service is regarded as of lasting value.

Dr. Eric Sinclair, Inspector-General of Mental Hospitals, was elected a Trustee on the 4th December, 1906. His death occurred suddenly on the 19th May, 1925. His services in the work and interests of the Museum, both in Board and Committee, were of a high order and his thoughtful counsel and guidance are losses both to the Museum and to the State.

Mr. Richard Hind Cambage, C.B.E., F.L.S., was elected a Trustee on the 5th June, 1925, to fill the Vacancy on the Board caused by the death of Mr. Hargraves.

In the terms of Trustees' By-Law V, the Hon. D. Levy forfeited his seat on the Board by non-attendance at the meetings during a period of six consecutive months. This vacancy was declared by the President in Board meeting held on the 5th June, 1925.

Two seats on the Board remained vacant at the 30th June, 1925.

Dr. T. Storie Dixson was on 5th December, 1924, re-elected President for the year 1925, being the seventh successive year he has held this office.

## Board Meetings.

During the year eleven ordinary meetings and three special meetings of the Board have been held, at which the attendance of the Trustees is recorded as follows:—

			C	rown I	"rustec.				Ordinary.	Special.
James McKern	in.	220	12.55	***	1.17	***	335	***	7	2
			ot	ficial I	'rustees					
Dr. T. Storie Dixs	on Pres	sident	of the	Medica	l Board	l (Presi	dent)	117	11	3
F. A. Coghlan, Au				166		***	***		11	3 1
H. A. Chesterman				***	***	***	***	***	6	1
			El	ective 1	Crustees	£.				
W. H. Hargraves.	Died	9th A	pril, 19	25		2.0		***	5	1
Dr. Eric Sinclair.	Died 1	9th M	av, 19:	25	***	***	100	***	3	***
Dr. J. R. M. Robe	rtson	***		***				***	7	2
E. Wunderlich					***		***	***	5	2 2 1
Dr. G. H. Abbott			***	***	****	2.687	200	444	2	2
Hon. D. Levy, M.	L.A.						***	111	3	
J. J. Fletcher	14.44	***	***	***			2.55	(64.6)	11	3
Sir William Vicars		***	***	***		***	***	***	3	
Major-General Sir	Charles	Rose	nthal	***	***	***	111		3	1888
Professor L. Harri	son		***		***		2.2.5	***	7	2
E. C. Andrews.					***	***	***		3	1
Octavius C. Beale					1924	(8908)	***		6	1
R. H. Cambage.	Electe	d 5th.	June, 1	925.		***	***	***	***	111

Leave of absence (four months) was granted Mr. McKern from 5th December, 1924.

Leave of absence (twelve months) was granted Mr. E. Wunderlich from January, 1925.

Leave of absence (one month) was granted Sir Charles Rosenthal from 30th May, 1925.

### House Committee.

The House Committee held one special meeting and eleven ordinary meetings during the year. Its work covered recommendations in respect to all matters pertaining to staff appointments and government, maintenance of buildings, plant and equipment, &c. The Committee gave consideration to questions arising in connection with exhibits, improvements in exhibits, the opening of the Museum on Mondays, and many other matters which are set out more fully in the General Report.

The attendance of members at Committee meetings is recorded as follows :-

Dr. T. Storie Dixsor Mr. Jas. McKern, (				 leave	Decem	 ber, 19		Ordinary. 10	Special.
	***		***	***	***	214	***	3	***
Mr. F. A. Coghlan,		222	***		555			10	1
Dr. J. R. M. Robert	son, 1924-25	·	444	100	444	444	144	8	1
Mr. J. J. Fletcher, 1	924	***		***	2.4.4	***		4	***
Sir William Vicars.		222		***	444			2	***
Mr. E. C. Andrews,	1925	5.6.5	100	***	***	***	***	4	1

### Finance and Publicity Committee.

The Finance and Publicity Committee held twelve ordinary meetings during the year. Accounts totalling £7,573 12s. 7d. were reviewed and authorised for payment.

Consideration was given to the subject of Extension Lectures, fifteen being approved and recommended, whilst endorsement was made to the broadcasting of Nature stories to children through the services of Messrs. Farmer & Co., Ltd.

Thoughtful review was directed to affairs connected with the Museum Magazine, and the Trustees' interests in regard to this publication were closely watched. Fuller details of the Committee's recommendations are embodied in the main report.

The attendance of members at Committee meetings is recorded as follows:-

Dr. T. Storie Dixson, Presiden	ıt	***	***	***	***			***	5
Mr. E. Wunderlich, Chairman		(On lea	ve Jan	uary-E	ecemb	er, 1925	5)	***	6
Mr. F. A. Coghlan, Chairman, Mr. Jas. McKern, 1924, 25		 D			***	***	***	1000	11
Mr. Jas. McKern, 1924-25. ( Mr. W. H. Hargraves, Died	On leav	e, Decen il 1925	nber, I				***		6
Mr. J. J. Fletcher, 1925	17.50	***		***	***		***		5
Mr. O. C. Beale, 1925	***	***							1000

# Scientific and Publication Committee.

The Scientific and Publication Committee held ten ordinary meetings during the year, the June meeting having lapsed through absence of a quorum.

The Trustees' lectures held within the Museum have been carefully reviewed in regard to subjects and attendances. These lectures include the Popular Science (Evening) Series and the School Lectures. In addition special lectures to the children of the Deaf and Dumb and the Blind Institution, Business Colleges, and talks to school pupils have been governed thoughtfully by this Committee.

The Committee's deliberations were directed particularly to such matters as exchange of specimens and publications, purchase of specimens and publications of all headings concerning the scientific interests of the Museum. Statistics relative to lectures are furnished in the General Report.

The attendance of members at Committee meetings is recorded as follows:-

Dr. T. Storie Dixson, President ,		 ***			***	2		3
Dr. Eric Sinclair, Chairman, 1924 .		 	***	***	***			8
Professor L. Harrison, Chairman, 1	1925	 	***			***		6
Dr. G. H. Abbott, 1924-25		 ***	***	***	***		4	7
Mr. J. J. Fletcher, 1924-25		 ***						9
Sir Charles Rosenthal, 1924-25		 			***	***		3

#### 2. VISITORS.

Day by day it becomes clearer that the Australian Museum is destined to play for Australia a most interesting role in all that concerns the study of its Fauna, Ethnology, and Geology. Probably its best teaching is its silent teaching, "every thoughtful visitor to the Museum gets out of it as much as he chooses, or to be more exact, as much as he is capable of assimilating." More than that, the Museum is ready to waken his mind to raise questions itself, to open, as it were, windows offering new vistas, broadening his mental horizon in every way.

During the year the Museum Halls have been opened as usual to the public on all week-days (except Mondays) and Sundays, including public holidays. On Anzac Day, 25th April, the Museum was closed until 2 p.m.

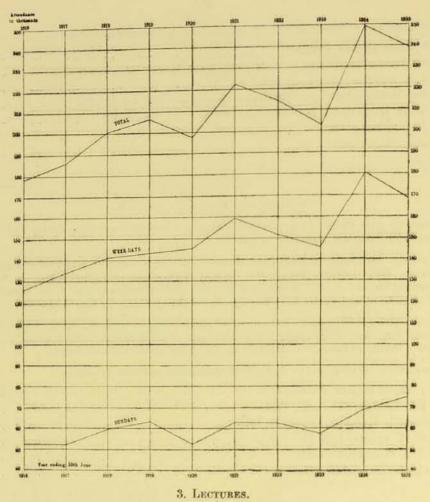
Large numbers have visited the galleries, especially classes of school children from the city and nearby suburbs, and it is gratifying to again report that the attendance of visitors to the galleries has been maintained, which strikingly indicates the growth of popular interest in the Museum.

It is now proposed that from the 1st July, 1925, the Museum shall be opened to the public on Mondays. This has been found necessary in consequence of the number of visitors and members of the public seeking admittance on that day. The practice of closing the Museum to the public on Mondays is one of old standing, and a simple rearrangement of staff disposal will permit of the change being effected without involving extra expense.

The number of visitors on week-days totalled 168,880, and on Sundays 70,478, in all 239,358.

The following statistics of attendances from the years 1914-1915 are submitted:-

1914-1915 (Is	st July to	30th Ju	ne)	***	44.5	Week-days. 109,922	Sundays, 46,611	Total. 156,533
1915-1916			***	***		125,978	52,669	178,647
1916-1917	33	2.5		***	***	133,645	52,399	186,044
1917-1918	37	27	444	***	***	140,977	59,920	200,897
1918-1919	11	22		***	***	142,977	63,520	206,497
1919-1920	7.3	22	***	40.4	166	145,058	52,490	197,548
1920-1921	30	22	***	63.5	***	159,576	63,016	222,592
1921-1922	2.2	23	414	111	***	151,544	62,889	214,433
1921-1922	33	22	***		100	145,271	57,600	202,871
1922-1925	27	11	***		***	180,474	69,037	249,511
1923-1924	2.2	2.2	***	65.5 844	111	168,880	70,478	239,358
13/24-13/20		**	6 9 1	5.5.5				



Public Education in the Museum.

The policy of the Trustees to aid the public and citizens to become more generally acquainted with Natural History has been persistently followed up by means of lectures, demonstrations, and gallery talks. The lectures during the year comprised:—

(a) Popular Science Lectures in the Museum Lecture Hall for adults.

(b) Nature Study Lectures to teachers and pupils of the Public Schools and Business Colleges in the Museum Lecture Hall.

(c) Extension Science Lectures delivered in the city, suburbs, and country centres.

(d) Lectures and talks in the Museum to the pupils of the New South Wales Deaf and Dumb and Blind Institution.

(e) Talks to pupils of High Schools.

These lectures were originally planned to bring the citizens into closer touch with the Museum and its work, and in the case of the lectures to school pupils, the result has been to take the Museum to the schools and to bring the schools to the Museum.

It must be borne in mind that the Lecture Hall has seating accommodation for 250 persons, and figures now submitted indicate only too clearly that the Trustees' work is sadly hampered through lack of accommodation. In many instances applications for admission were greatly in excess of the capacity of the hall, and the public have had to be refused admittance owing to the risk attaching to overcrowding.

In all cases the lectures have been illustrated by means of lantern slides, cinema films, and specimens. The increase in attendance at the lectures proves that the Museum lecture work is of direct importance. Altogether forty-eight lectures have been given to a total attendance of 9,259 persons.

The following details of lectures are furnished:

The following details of lectures a		arnisnea ir Scienc		ures.				
Subject.  1. " Lord Howe Island—the Madeira of t			***	***	Lecturer. A. Musgrave		Α	ttendance. 352
2. "Nests of Some Australian Birds"			***	744		***	***	374
	557	255	5.55	9.00	J. R. Kinghorn	***	***	334
5. "Nature the Master Sculptor"	***	***		***	m	25.5.5	***	248
	150	5550	***	4.4.4	T. Hodge Smith	***	***	212
6. "Beginnings of Life"	111	111	***	100	E. A. Briggs			285
7. "Conquering the Cannibal"	***	4.4.4	4.4.4	111	11	***	***	239
8. "Non-Marsupial Mammals of Australia		4.4.4	0.00	18.88	E. le G. Troughto	n	***	201
9. "Cave-land"	121	9.690	***	444		2.4.4	***	279
10. "Birds in Relation to Agriculture"	63.4	8993	255	0.00	J. R. Kinghorn		***	105
11. "Meteorites"		2.54	***	994		***	***	158
12. "The Role of Insects in War and Peac	e ''	100	9(4)4)	13.4	Dr. Harvey Sutto	n		305
13. "Evolution of the Horse"	117	7.5.5	7.5.5	200	W. S. Dun			275
14. "Beasts and Birds through a Camera"	23.	***	***	***	E. F. Pollock	FA.81	***	270
							-	3.637

						5						
		Subject			Se	hool L	ectures.					
1. "Mamma	ls **								Lecturer.			ttendance.
2. "Seashore		ttended	by Mi	nictor	1555.	990	***	***	E. le G. Troughte	n		152
0	160		100.0	mster)	1944	***	***	***	J. R. Kinghorn	220	***	217
4. "Reptiles	22	2			***	***	***	1.1.1	F. A. McNeill	***	4.8%	145
		200	***		***	44.6	***	***	J. R. Kinghorn	***	***	167
5. "Insects"	,	***	377.5	977.5	199	(4.8.8	***			***	4.447	275
		***		70.00	***	***	***	***	A. Musgrave	(8.88)	25.53	329
	***	200	37.5	17.11	1866	***	9.00		J. R. Kinghorn	1245	***	138
8. ",	.,,,,	***	***	***	***	44.4	***	222	- 27	(2.2.2)	110	129
9. "Seashor	er	***	100	4.6.6	54.5		***	(4.4.4)	F. A. McNeill		944	59
10. ",		(1)	6.6.4	111	207	***	444	***	***	2.55	***	96
11. "Birds"	***	101	1555	111	27.5		***	***	J. R. Kinghorn	***	9890	78
12. ,,	100	***	190	6.6.6	1272	2444	0.00		.,,		***	257
13. ,,	111	4.03	55.5	***	55.5	1966	***		H. O. Fletcher	***	4.44	145
14. "Insects	568	2.04	100	2.00	444	0000	1444	***	T. G. Campbell		***	156
15	24.4	***	27.7	2.12	1,1,1	CHEA	***		A. Musgrave	144	***	242
16. "Shells"	¥4.4	100	200	1994	244	444	***	100	T. Iredale			150
17. ,,	***	***	***	1000	***	555	111		W. Boardman	***	144	87
												2,822
		Lectures	to Pr	epils of	the De	af and	Dumb	and	the Blind Instituti	ou:		2,022
4th June-" 1	Birds	." Mr. J.	R. K	inghorn			2 mile	***	Blind Pupils			8
STANCESCO					1,500	-		(4.6.9)	Deaf and Dumb	1000	***	24
									m t	2.55	***	3
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					Exte	nsion	Lectures.					
Place.					Subje				Lecturer.		A	ttendance.
1. Harden	***	***		Roma lew Sout	nce o	f Gold	l-mining	in	T. Hodge Smith	***	•••	50
2. Cowra		***		200			200		192	***		120
3. Epping	***	***	" Ant	s and A	at Con	munit	1es ;;		A. Musgrave	***	***	50

-				Exte				V20 000				11/2000	
Place.		st m	70	Subje		2.2	1.45	Lectu	rer.			At	tendance
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		N(	ew Sor	ath Wal	les."								
2. Cowra	***		**			**			**	***			120
3. Epping	***	" Ants	and A	Int Con	amunitie	s **		A. Mus	grave	***		***	50
4. Turramurra					s to Man		***		inghorn			444	280
5. Sydney (Depa				ered Fri			1000	3/1-31/15	**	***		***	120
of Education		10.444	E COUNTY	COLUMN TO A	STATE OF THE PARTY	***	Here.			115.5.5		10.00	
6. Werris Creek	5)	66 7171	Ď		lold-mini	Land Inc.	AT.	m Had	ge Smith				80
o. Werris Creek	(4.4.6)				tora-min	ing in	NOW	1. 1100	ge Sunta			(5)5(5)	CU
- 70 11				Vales."									100
7. Bondi				e Island		555	115.55	A. Mus	CHECKION CO.	0.688		1000	100
8. Sydney (Fari	mer &	"Our	Feath	ered Fr	iends ''	1000	22.0	J. R. E	Cinghorn	1988			400
Co., Ltd.).													
9. Balgowlah	100		- 55	34		4.64	24.7		111	2474		***	300
10. Cowra		"Who	's Wh	o amon	g the Re	ptiles			22				150
11. Broken Hill	***	" Natu	re the	Master	Sculpto	r **	117	T. Hod	ge Smith				70
12. Malvern				ered Fr					Cinghorn	444			100
13. North Sydney					story of				ge Smith			***	80
					Reptiles				Cinghorn	222			100
				e Island				A. Mus					200
		OFG	How			444	0.04	A. Mus	grave	***		***	200
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<ol> <li>Sydney (Y.M.</li> <li>Sydney (Roy: onial Institu</li> <li>Turramurra</li> </ol>					g the Re		·· ,,	J. R. F	Kinghorn	2.52		***	250
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# The School Lectures.

The School lectures are centered on the plan to bring the Museum into closer touch with the school children and teachers, and the syllabus arranged under the supervision of the Chief Inspector of Schools closely correlates with the Nature Study work done in the class rooms. The objects are to increase the knowledge of Nature and to acquaint the pupils with the Museum collections, so that the collections may be used to full advantage.

The question of the Government meeting the cost of lectures promoted by the Trustees was brought to the attention of the Minister for Education by the Hon. D. Levy, M.L.A., but the late Minister, although in sympathy with this phase of the Museum work and appreciating its value, was unable to make any

provision on the Estimates to meet the additional expenditure involved under this heading.

It is pleasing to record the following extract from a letter to the Director by Mr. H. D. McLelland.

Chief Inspector of Schools, under date 12th June, 1925 :-

"Personally I regarded the subject of Nature Study as second to none in educative value, and I can assure you that all the more thoughtful teachers appreciate fully the assistance now being given by the Museum to our schools. I hope that each year will add to the number of those to whom your lectures are giving a bias toward some form of science study."

The Trustees appreciate this endorsement furnished by one best in a position to gauge the worth of this Museum service to the oncoming citizens of our State.

The Trustees readily co-operated with the Department of Public Instruction in its broadcasting lectures to schools, and Mr. Kinghorn addressed the schools from the Broadcasting Parlots on 10th December, 1924, his subject being "Snakes and Snake Venom."

Classes of children from the Institution for the Deaf and Dumb and the Blind were also brought to the Museum, and the Blind by handling the specimens were able to closely follow the lecturer, and the Deaf and Dumb pupils readily grasped every point of the "Talk" by sight conversation, translated through

The lectures, however, represent a heavy item of expenditure, and their cost to the Trustees has reached during the past year the amount of £245 4s. 7d., irrespective of the cost of lantern slides.

# 4. THE STAFF.

During the year Mr. A. R. McCulloch, Senior Scientific Assistant, found it incumbent to apply for extended leave of absence in consequence of ill-health, and twelve months' extended leave was granted. In his absence the work of his branch was performed by his Assistant, Mr. G. P. Whitley.

Mr. T. Iredale was appointed Conchologist (on probation). He had previously been engaged as a temporary assistant in this Department, and his full appointment will tend undoubtedly to a strengthening

of the staff resources.

Miss G. E. Johnstone was appointed Stenographer on 18th August, 1924, and her work throughout

has been of important assistance to the administrative section.

Generally the staff have realised that an undertaking of the nature of the Australian Museum requires the watchful care of those charged with its supervision, and have manifested every interest in its operations,

At a special meeting of the House Committee held on the 27th January, 1925, the salaries of the staff were reviewed and the Board of Trustees adopted the Committee's recommendation in respect to increases in staff salaries,

Presidential Address.—At the opening Board Meeting of the year, February, 1925, Dr. T. Storie Dixson, President, submitted to the Trustees his presidential address, in which he stressed the hope for forward work during the year.

Extension of the Museum Buildings. - From time to time the subject of the extension and completion of the Museum buildings has been brought forward in Trustees' reports, but nothing in the way of structural additions has been attempted since 1909.

At one time all specimens held were displayed, and persons unfamiliar with modern Museum methods possibly still have the idea that these exhibits include all of the Museum's collections. Such is far from being the case, and actually the specimens on exhibition constitute only a portion, and in many instances an insignificant portion, of our collection. It seems desirable that this fact should be made clear. Our storage facilities are now altogether inadequate and unsuitable for the duplicate and exchange material, and the spaces for the accommodation of study collections call for immediate extension.

Publicity.—The Press has most courteously published at times various items of public interest which have been furnished from the Museum, and the thanks of the Trustees are tendered for the co-operation and assistance afforded by the daily papers in respect to lecture reports, Museum articles and reviews. From these is gathered some small idea of the work accomplished. Record cannot be kept of the numerous daily calls for information sought from the Scientific Staff. This "Information" work is encouraged and is one of the most important phases of the work of the officers of the Museum. No person, young or old, is denied a courteous hearing and a very great deal of the time of the officers is taken up in answering questions asked by visitors and sought by correspondents from all over the world,

The Trustees are again giving consideration to the question of the issue of a popular guide to the exhibits in the galleries, and if funds permit this much needed adjunct will soon be a realised fact.

# THE AUSTRALIAN MUSEUM MAGAZINE,

The Magazine is a popular illustrated publication of the Trustees, published quarterly, for lovers of Nature, and supplies scientifically accurate information free of technical difficulties. The Magazine has now reached Part 7 of Vol. II, and the Trustees can regard with pleasure the growing public interest in each number.

In view of the desirableness of extending the usefulness of the Magazine, arrangements have been entered into with Messrs. Angus & Robertson Ltd., to undertake the distribution of the Magazine.

This arrangement will take effect as from the 1st July. The issue will be increased to 4000 copies per part, and it is confidently expected that excellent results will ensue from the idea.

Realising the value of the Magazine as an educational factor in the schools, the Trustees after supplying State Schools, distributed gratis copies to the headmasters of Public Schools in the adjoining States, and supplied these as follows :-

				To	tal	1,266	
West Australia	***	***	2.0	***	***	96	19
South Australia		***	1000	***	***	177	1,5
Queensland		***		100	***	325	- 31
		1444			***	641	copies.

In addition a distribution of 500 gratis copies was made to members of the medical profession with a request that the copy be placed on the table of their Waiting Rooms.

Altogether 3418 copies of the Magazine were distributed gratis during the year, in order that the Magazine should become thereby more widely known.

The Trustees also had printed 35,000 Magazine publicity slips; these were supplied to publishing houses and leading booksellers in the States for their use in enclosure with correspondence. Each of these efforts to bring the Magazine more prominently to the notice of the public, has produced pleasing results in the form of more general inquiry and subscriptions. It is safe to claim, that the Museum Magazine as an aid to nature study is without an equal, and it is hoped with the concurrence of the Hon. the Minister of Public Instruction to yet have it placed in the hands of all nature study teachers in the schools of our State.

In order to further make known the value of the articles appearing in the Magazine, permission was granted to Messrs. Farmer & Co., Ltd., to use the Magazine articles as and when desired for purposes of their broadcasting talks.

Educational. - Consideration during the year was given by the Trustees to the subject of having prepared standard lectures to be printed and furnished with appropriate slides for the use of schools. It was, however, recognised that although this Museum service is greatly availed of in the States of America and is a feature of Museum work there, it could not be readily carried out owing to lack of lantern and screen facilities in this State.

Photography and Collection of Slides .- One of the most valued possessions and adjuncts in the educational side of the Museum is in its collection of 2,448 lantern slides.

These slides prepared by the staff are in many series most delicately and faithfully coloured, and can be claimed to be without parallel in the States. Within themselves they form a valuable library, and for lecture purposes are indispensable.

While the work of photography is of a routine nature, the large number of prints furnished by this section indicates the extent of the researches of the Museum. Altogether 4,016 negatives have been registered, and with the lantern slides have been brought under a system of classification and cataloguing. The following tabulation sets forth the work of this section during the past year :-

103 4.4

Micro Slides of Rock Sections.—In September the Trustees decided to have an assistant specially trained to conduct the work of cutting Micro-slides of rock sections. The assistant entrusted with the work, J. Kingsley, completed 263 slides during the period to 30th June. These slides if purchased outside the Museum would represent a cost of £32 17s. 6d.

Appeal .- In concluding this report no better lines can be used than those contained in an article by Professor Henry Fairfield Osborn, President of the American Museum of Natural History:

"The old Museum idea was that of a sanctuary or refuge, a safe deposit vault for curious, rare or beautiful objects, which otherwise might be lost or destroyed. The curator was a keeper, not a teacher. The growing Museum influence is largely due to what may be called the 'New Museum Idea,' viz., that the Museum is not a conservatory, but a progressive, educational force. That it has a teaching quality or value peculiar to itself. That the Museum succeeds if it teaches; fails partially if it merely amuses or interests people, and fails entirely if it simply mystifies.

It is claimed for the Australian Museum that it has acted as a teacher to the total of 239,358 visitors to its galleries during 1924-25; that it did not stop to merely interest and amuse; and therein it has succeeded.

The Trustees are particularly earnest in their determination that the Museum shall be recognised as a progressive educational force, devoted in its every phase to the betterment and well-being of the citizens of our State.

In The Daily Telegraph of September 18th, Mr. Ernest Wunderlich, Trustee, made a strong appeal to the citizens of New South Wales to co-operate with the Trustees in placing the Museum upon the plane it should occupy in such a city as Sydney. Appeal was specially made to our public-minded and public-spirited leaders for funds to permit of the Museum's expansion, and so place it on a level with Museums in other parts of the world.

MUSEUM NEEDS.

The immediate needs of the Museum embrace-The early completion of the building as planned fifty-six years ago.

Additional endowment funds to enable it to continue the work it is now doing.

New halls in order that the public may study and enjoy the valuable material which of necessity

is now in storage.

Active support and interest in its service to schools and the public. Benefactions from public-spirited citizens to further its work of research, exploration and education.

#### LIBRARY.

During the year the library acquired 264 volumes by purchase and exchange, besides loose parts and reprints as detailed in Appendix II, "Additions to the Library."

The growth of the library accentuates the problem of finding shelf space. During the previous year a number of volumes were transferred to the Board Room, which made it possible to rearrange portion of the cases in the library proper and allow for expansion. The need for an increase in library accommodation cannot be emphasised too strongly, overflows are now spread in many directions—Board Room, basement, corridors, and Palæontological Gallery. The departmental divisions are also congested, particularly in the Entomological and Conchological Sections.

The portion of the library housed in the basement continues to be a matter of concern. It is only by constant attention that it is maintained in approximately good condition.

The amount voted for bookbinding was duly expended, and an appreciable advance was made in overtaking arrears, though much yet remains to be done. It is desirable that these arrears should be overtaken as soon as possible, for many of our volumes are of great value and receive considerable handling; they require binding not only to facilitate their use, but also to preserve them for the future.

As in previous years, assistance has been freely rendered to students and investigators, and similar help has been afforded to the press, particularly in the direction of illustrations.

# FIELD WORK.

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From 28th October to 3rd November, Mr. A. Musgrave, Entomologist, was collecting at Mount Tambourine, Southern Queensland, and from this exceedingly rich district he obtained nearly one thousand specimens of insects and spiders, besides millipedes and other forms.

On 24th November a party proceeded to Port Hacking and, accompanied by Mr. W. H. Glover, of Lillipilli, in his launch, went up the north-west arm to the site of two aboriginal rock shelters. These were excavated, and one nearly complete skeleton was obtained and portions of four others, besides a number of stone axes, bone awls, pounding stones and flakes. Thanks are due to Mr. Glover for his cordial assistance and for his offer to assist in future explorations of ancient aboriginal camps in this locality.

Mr. T. G. Campbell accompanied a University party led by Professor Launcelot Harrison, which was engaged from 16th January to 13th February on a biological survey of Barrington Tops, and was successful in securing a considerable number of specimens comprising mammals, reptiles, molluscs, crustacea and insects. The snakes included some fine examples of Denisonia superba, far exceeding in size any previously represented in the Museum collection.

Preliminary trips to Gunnamatta Bay, Port Hacking, yielded such interesting and important results that it was decided to engage in systematic collecting on the extensive flats accessible at low tide. These flats are the breeding ground of a large and varied invertebrate fauna which is ordinarily found only in deeper water. By kind permission of the State Fisheries, Chief Secretary's Department, a Museum party consisting of Messrs. Iredale, Livingstone and Fletcher, was allowed to occupy the Fish Hatchery buildings at Gunnamatta Bay from 9th to 13th March, and succeeded in collecting a large series of molluses, echinoderms, crustacea, alcyonaria, and other invertebrates. Observations were also made of breeding habits and distribution, and many interesting photographs were obtained. On account of the importance of the results achieved, the Trustees have approached the Chief Secretary with a view to obtaining the use of the hatchery buildings for an extended period as a Marine Biological Station, and negotiations with that end in view are now proceeding. The Trustees are greatly indebted to the Chief Secretary and Mr. A. W. Wood, Officer in Charge of State Fisheries, for the facilities afforded to the Museum officers during their visits to Gunnamatta Bay. Mr. H. O. Fletcher, of the Museum staff, kindly placed his car at the service of the Trustees, and thus contributed considerably to the success of the undertaking.

On the 13th June, Mr. W. W. Thorpe, Ethnologist, visited Newcastle and explored the beaches south of Merewether and a locality near Mayfield, where aboriginal flaked implements occur in considerable numbers. He was accompanied by Messrs. D. F. Cooksey and C. W. Loch, who have taken great interest in the occurrences, and secured a representative series of specimens from both localities. The specimens from Mayfield, found on the bank of an old channel of the Hunter River, are of particular interest on account of their undoubted antiquity; they include an implement of "Aurignacian" type, hitherto unknown from Australia. We are indebted to Messrs. Cooksey and Loch for their valuable assistance to Mr. Thorpe during his visits to the district.

#### CURATORIAL WORK.

Ethnology (W. W. Thorpe in charge; H. O. Fletcher, part-time assistant).—Donations of special interest received during the year include an outrigger canoe, weapons from Ana (Durour) Island, and two large carvings from New Zealand, presented by Mr. H. C. Cardew; inlaid canoe, drum, stone mortars, and implements from the Solomon Islands, by Mr. N. S. Heffernan; collection of South Sea material purchased for the museum by Mr. Robert C. Dixson; tattooed Maori head, and a number of Australian, Tasmanian, and Pacific stone implements presented by Mr. Thomas Steel, F.L.S.; stone axes from the Bogan River, New South Wales, by Mr. W. S. Dun; New Hebridean spears by Mr. F. T. Huthnance; stone axes from New Caledonia by Mrs. L. M. Roth; some old Fijian spears by Mr. T. F. H. Mackenzie; aboriginal weapons from the Daly and Fitzmaurice Rivers, Northern Territory, by Mr. T. Styles.

By exchange we received a number of Polynesian stone implements from the Otago University Museum; aboriginal stone implements from Mr. A. S. Kenyon; Veddah relics from the Colombo Museum. Specimens acquired by purchase include native regalia from the Banks Group, aboriginal weapons from the collection of the late Harry Stockdale, an assassin's knife from Persia.

During this year the gallery collection was thoroughly overhauled and cleaned by Messrs. W. Barnes and E. G. Morris. The Maori and Moriori stone implement exhibit was rearranged, following suggestions by Mr. H. D. Skinner, M.A., of the Otago University Museum, and information gathered by Mr. Thorpe during a visit to the Dominion.

A composite cast of a Papuan native was prepared by Messrs, G. C. Clutton and J. Kingsley for the "Ravi" exhibit. This striking exhibit has been placed temporarily in a wall case pending the encasing of the Ravi. A small series illustrating the material culture of Aua (Durour) Island, some "Pre-Melanesian stone objects from the Solomon Islands, a large fish-figure from New Ireland, a baked Maori head, and two casts of trephined Peruvian skulls were added to the exhibited series.

The Aboriginal Group so generously presented by Mr. E. Wunderlich, F.R.A.S., Trustee, and entrusted to Mr. G. Rayner Hoff for execution, is now nearing completion, and the Trustees hope to have it installed early during the coming year.

The following papers and articles by Mr. Thorpe have been published during the year or are in the press :-

"Bronze and Ivory Figures from Burmah," Aust. Mus. Mag., ii, 3, 1924.

"Some New Guinea Cultural Influences found amongst the Aborigines of Australia." (Read

before the Aust. Assoc. Adv. Sci., Adelaide, August, 1924.)

"Heliolithic Evidence in Australia, Tasmania, and New Guinea, and Traces of other Superior Cultures." (Read before the Aust. Assoc. Adv. Sci., Adelaide, August, 1924.)

Mammals (E. le G. Troughton, in charge). - The mammals registered during the year reached the total of 255, which is a record for the department. This result is due to the encouragement afforded to private collectors in the way of information and equipment, and to individual effort on the part of the Staff. Donations included a fine series of the Spectacled Fruit Bat (Pteropus conspicillatus) by Dr. W. E. J. Paradice, secured on a cruise by H.M.A.S. "Geranium" in Queensland waters; four species of Solomon Island bats by Mr. C. E. Hart; a large collection of bats, representing eleven species, and a large rat (Uromys sapientis) by Mr. N. S. Heffernan, Solomon Islands; an interesting series of seals, rodents and marsupials by Mr. A. S. le Souef; a fine specimen of the Giant Ant-eater (Myrmecophoga julata); a seal, Stick-nest rats and marsupials from the Taronga Park Zoological Trust; several interesting bats from Misses J. and E. Hosie, Messrs. L. Abrahams, R. Stein, W. H. B. Gaden, and bats and marsupials from Mr. T. V. Sherrin Mr. T. V. Sherrin.

By exchange with the American Museum of Natural History we received a spirit specimen of the rare South American marsupial (Conolestes fuliginosus), and a series of skins and skulls of American mammals. A fine series of thirty skins and skulls of Ceylonese bats was received by exchange with the Colombo Museum.

The Fruit Bat Group commenced last year was successfully completed, and has attracted much favourable attention. The setting, lighting and roofing of the Lion Group has been entirely remodelled and the animals renovated, resulting in a marked improvement. This will be enhanced when a screen is erected on the Antarctic case to eliminate the severe reflections which now mar the display. The interior of the Bear Case was repainted, the animals cleaned, and an extra fitting installed to raise the Polar Bear to a more commanding position and to accommodate two Polar Bear cubs. The interior of the cases in the section of foreign mammals was repapered and painted, and all the ungulates were removed and reconditioned; washing with a special solution was effective in restoring brilliance to the skins. The customary systematic disinfecting of the gallery and other collections was carefully carried out by the taxidermists.

Three hundred and fifty skins were treated by the taxidermists, who continued the work of removing skulls and filling out the skins to facilitate study and comparison. Coincident with the identification of acquisitions, old collection material has been renamed or identification checked, the advance in this respect enabling the spirit collection to be re-sorted according to genus and species. We have to thank Mr. H. A Longman, Director of the Queensland Museum and the Committee of Management of the Macleay Museum for the loan of specimens in connection with research work in the department.

The following papers and articles by Mr. Troughton were published :-

"Singular Nesting Site of Birds on the Nullarbor Plain," The Emu, xxiii, 3, 1924. "Captain Cook's Kangaroo," Aust. Zoologist, iii, 8, 1925 (with Tom Iredale).

"A Revision of the Genera Taphozous and Saccolaimus," Rec. Aust. Mus., xiv. 4, 1925,

"The Honey-eating Marsupial Mice of Australia," Aust. Mus. Mag., ii, 4, 1924.
"The Fruit Bats or 'Flying Foxes' of Australia," Aust. Mus. Mag., ii, 5, 1925.
"Some Strange African Fruit Bats," Aust. Mus. Mag, ii, 6, 1925.

Skeletons (E. le G. Troughton, in charge). — Donations included a fine series of human and marsupial crama by Mr. Thomas Steel, and useful study crama by the Director and Mr. H. O. Fletcher. From the American Museum of Natural History we received eight skulls of American mammals.

The articulators prepared and cleaned several skeletons and over ninety skulls.

The cases in the Osteological Gallery and the various stored collections were cleaned and disinfected.

Birds (J. R. Kinghorn, C.M.Z.S., in charge; H. O. Fletcher, part-time assistant).— During the year 154 birds, 8 nests and 52 clutches of eggs were added to the collection. Mr. P. A. Gilbert presented a number of clutches of valuable eggs; Mr. C. E. Hart, birds from the Solomon Islands: Mr. T. V. Sherrin, some rare and interesting birds, and Mr. Arthur Kidman several cases of mounted birds. The latter were renovated by the taxidermists and provided with printed labels, so that the groups could be used for loan purposes. These are now on loan to the Technical College at Broken Hill, under arrangement with the Technological Museum, Sydney.

The gallery collection is being overhauled by Mr. W. Barnes under the direction of the taxidermist, the wall cases being repaired and repainted. About 70 new skins were prepared, four groups restored, 50 mounted specimens and 118 skins renovated. Mr. Fletcher has continued his work of rearranging the bird collection, and has in addition completely catalogued the egg collection.

A report on the food of the Stubble Quail was furnished to the Chief Secretary in response to his request that certain investigations should be carried out. This report was later released for publication and has appeared in several of the pastoral magazines and daily papers.

Numbers of Art Students have made use of the gallery exhibits during the year.

Assistance was given to the State Advisory Committee, Customs Department, and to the Chief Secretary's Department in connection with bird protection and export, shipments being examined from time to time.

The following papers and articles appeared during the year :-

"Notes on the Golden-shouldered and Hooded Parrots," A. S. le Souef and J. R. Kinghorn. The Emu, xxiv, 1, 1923.

"Re-discovery of the White-backed Wren" (Malurus leuconotus, Gould), J. R. Kinghorn and

Tom Iredale, The Emu, xxiv, 1, 1924.

"Notes on a trip to Upper Colo," J. R. Kinghorn, The Emu, xxiv, 2, 1924.

"Our Feathered Friends or Birds in Relation to Agriculture," J. R. Kinghorn, Aust. Mus. Meg.,

"Notes on two Pigeons of the Genus Globiczra," J. R. Kinghorn, The Emu, xxiv, 4, 1924.

"The Home of Birds," J. R. Kinghorn, Aust. Mus. Mag., ii, 6, 1925.

Reptiles and Amphibians (J. R. Kinghorn, C.M.Z.S., in charge; H. O. Fletcher, part time-assistant) .-During the year 488 specimens were added to the collections. Of these over 400 were presented, and about 25 collected at Barrington Tops by Mr. T. G. Campbell, cadet. Among the more important donations were some 115 specimens by Mr. N. S. Heffernan and 15 by Mr. C. E. Hart, Solomon Islands. Mr. Thomas Steel presented a valuable collection of about 200 specimens, and from Mr. J. J. Fletcher, Trustee, we received 40 frogs in addition to the large number previously presented by him. Dr. A. F. D'Ombrain presented 15 specimens collected at Somersby, Gosford, and Dr. W. E. J. Paradice presented some rare and interesting forms from Northern Australia.

The amphibian collection in the spirit house was completely rearranged, and the reptilian collection overhauled by Mr. H. O. Fletcher. The casts exhibited in the gallery were attended to by Mr. G. C. Clutten, Articulator, and a damaged cast of a black snake was replaced by a new one.

Mr. Kinghorn has published the following papers during the year :-

"A Short Review of the Lizards belonging to the Genus Lialis Grey," Rec. Aust. Mus., xiv, 3, 1924

"Snakes and Snake Venom," Roy. Agric. Soc. Ann., 1924.

"Reptiles and Batrachians from South and South-west Australia." Rec. Aust. Mus., xiv, 3, 1924.

Two papers on reptiles are ready for publication.

Fishes (A. R. McCulloch, in charge; Cadet G. P. Whitley, assistant, in charge for part of the year during the extended absence of Mr. McCulloch through illness). - The ichthyological collection has again been greatly enriched by large numbers of fishes collected in Queensland and presented by Surgeon-Lieutenant W. E. J. Paradice of H.M.A.S. "Geranium" and by Mr. E. H. Rainford of Bowen, whose work in the interests of the Museum is hereby gratefully acknowledged. To the State Fisheries; the Technological Museum; Mr. C. W. Mulvey, Manager of the New State Fish and Ice Company; Mr. G. McAndrew of Shellharbour, the Trustees are indebted for many donations of interesting New South Wales fishes. Other specimens have come to hand from Tasmania (through Professor T. T. Flynn, Mr. H. Lovett and Dr. Paradice), Lord Howe Island (Mr. R. E. Baxter), New Guinea (Mr. E. A. Briggs, M.Sc.), Hawaii (Mr. D. G. Stead) and the Solomon Islands (Mr. N. S. Heffernan). We have been fortunate in securing examples of the rare freshwater fish (Rhadinocentrus ornatus) from Mrs. C. A. Messmer and Mr. H. E. Finckh.

A fine example of the deadly Stone Fish (Synanceja horrida) from Thursday Island was presented by the Director of the Division of Tropical Hygiene, Townsville, and a coloured cast of the fish is now on exhibition in the gallery. Casts are being prepared of the Eagle Ray (Myliobates australis), and of the Angel Shark (Squatina australis), and will be exhibited in due course. Life-like casts, coloured from fresh specimens, are more attractive than preserved specimens, and the addition of more and more coloured casts is improving the gallery of fishes considerably.

Two specimens of the Lung-fish (Neoceratodus forsteri) were received from Mr. H. A. Longman, Director of the Queensland Museum, for exchange purposes, and we are also indebted to him for supplying us with much valuable information concerning the types of rare fishes in the collection of the Queensland Museum.

As in previous years, information on various subjects connected with the study of fishes has been supplied to workers in other institutions and to the public. A valuable report on the Flat-fishes collected by the Federal Trawler "Endeavour" is expected shortly from Mr. J. R. Norman of the British Museum, and Dr. Johannes Schmidt, of the Carlsberg Laboratory, Copenhagen, has been supplied with specimens and information in connection with his work on freshwater eels. As a result of this co-operation Dr. Schmidt will be enabled to identify our collection of Anguilla.

For the purposes of a paper on Flat-fishes a number of specimens were obtained on loan from the Macleay Museum, University of Sydney, and our thanks are due to the Committee of Management of the Museum for that privilege,

The following papers and popular articles have been written during the year:-

"Some Little-known Australian Flat-fishes," A. R. McCullech and G. P. Whitley, Rec. Aust. Mus., xiv, 4, 1925.

"Contributions to the Cranial Osteology of the Fishes, No. 1, Tandanus tandanus Mitchell," H. Leighton Kesteven, D.Sc., M.D., Ch.M., Rec. Aust. Mus., xiv, 4, 1925.

"A List of the Fishes recorded from Queensland Waters," A. R. McCulloch and G. P. Whitley (in the press)

(In the press).

"Fishes and the Movies," A. R. McCulloch, Aust. Mus. Mag., ii, 3, 1924.

"Stoats and Weasels," A. R. McCulloch, Aust. Mus. Mag., ii, 3, 1924.

"A Museum Collector in Papua," A. R. McCulloch, Aust. Mus. Mag., ii, 5, 1925.

"Stone Fishes and the Art of Camouflage," A. R. McCulloch, Aust. Mus. Mag., ii, 5, 1925.

"Raining Fishes," A. R. McCulloch, Aust. Mus. Mag., ii, 6, 1925.

"Parasitism in some of the Lower Animals," G. P. Whitley, Aust. Zoologist, iii, 8, 1925.

"Stranded Seaferers." G. P. Whitley (in the press).

"Stranded Seafarers," G. P. Whitley (in the press).

A report by Mr. McCulloch on some of the Fishes collected by the "Endeavour" is still waiting publication.

Insects and Arachnids (A. Musgrave, F.E.S., in charge; Cadet T. G. Campbell, assistant). Many important donations were received during the year, among which may be mentioned five collections of Solomon Island insects, presented by Mr. C. E. Hart, Guadalcanar, and Mr. N. S. Heffernan, Ysabel. Other generous donors have been Dr. E. W. Ferguson (types of Australian Diptera), Dr. W. E. J. Paradice (insects from Islands of the Queensland Coast), Mr. J. Clark (paratypes of Australian ants), Mr. F. W. Shepherd (insects from Broken Hill), Mr. P. Gilbert (collection of beetles), Mr. A. M. Lea (large collection of Australian insects). While on a holiday in Queensland Mr. Musgrave collected about a thousand insects and arachids which he has presented to the Trustees, and Mr. T. G. Campbell has enriched the collection by a number of insects secured by him near Sydney.

During the year Messrs. Musgrave and Campbell made short official collecting trips to places in the vicinity of Sydney, and Mr. Musgrave made extensive entomological collections at Mount Tambourine, South Queensland, where he was assisted by a resident, Mr. C. Geissman. Mr. Campbell formed one of a party led by Professor L. Harrison, which made a biological survey of Barrington Tops; on this trip a number of valuable specimens were secured for the Museum collections.

Revision and re-arrangement of the gallery exhibits has proceeded during the year. Among new exhibits a model illustrating the habits of the Sand-wasp has been installed. This we owe to the interest and courtesy of Mr. F. Danvers Power, A.R.S.M., who supplied a cast of the burrow and the necessary data for the construction of the exhibit, which was prepared by Messrs. G. C. Clutton and J. Kingsley.

The principal work of the Department has been the identification, registration and labelling of the large collections received, and the preparation of reports on the specimens. The cabinet collections of Diptera, Hemiptera, Formicidæ and certain families of moths have been revised and catalogued. Much time has been spent in preparing and forwarding to specialists material for comparison and identification, and we are greatly indebted to the following for valuable assistance:

Mr. Morgan Hebard, Philadelphia (Orthoptera); Dr. Jefferis Turner, Brisbane (Heterocera); Mr. J. Clark, Perth (Formicidæ); Dr. E. W. Ferguson, Board of Health, Sydney (Diptera); Mr. W. E. China, British Museum (Hemiptera); Dr. Eland Shaw, Queensland (Blattidæ); Mr. G. Hill, National Museum, Melbourne (Termitidæ).

During August Mr. Musgrave was granted leave of absence to attend the Adelaide meeting of the Australasian Association for the Advancement of Science, and he took the opportunity of examining the entomological collections in the National Museum, Melbourne, and the South Australian Museum, Adelaide,

The following papers and articles have appeared during the year:

"Australian Nycteribiidae." A. Musgrave, Rec. Aust. Mus., xiv, 4, 1925.

"The Dodd Collection," A. Musgrave, Aust. Mus. Mag., ii, 3, 1924.

"A Naturalist on the Nepean River," A. Musgrave, Aust. Mus. Mag., ii, 5, 1925.

"The Animal Life of the Nepean River," A. Musgrave, Aust. Mus. Mag., ii, 6, 1925.

"A Visit to the Barrington Tops Plateau," T. G. Campbell, Aust. Mus. Mag., ii, 6, 1925.

"Australian Platypezidæ (Diptera)," A. L. Tonnoir, Rec. Aust. Mus. xiv, 4, 1925.

Mollusca (T. Iredale, in charge; Miss C. M. J. Allan, assistant).—The accessions number 4,719, the greater number of which were presented. Among the donations was a fine series from the Richmond River district, presented by Mr. A. O'Sullivan, specimens from the North Coast of Australia by Dr. W. E. J. Paradice, while Messrs. G. McAndrew, E. H. Rainford, T. Steel and A. E. J. Thackway contributed many interesting specimens as in former years.

The preparation of a card catalogue of the collection is under way, but the work is hampered by the inconvenient storage arrangements that obtain at present. It is highly desirable that the Conchological Collections, now housed partly in a room and passage on the top floor, partly in the basement, should be brought together into one room, so as to facilitate reference. The selection of representative gallery exhibits and the preparation of descriptive labels is proceeding, so as to make the collections more attractive to the public.

Assistance has been rendered to Dr. H. Burton Bradley, who is engaged in the study of the black disease in sheep. The freshwater snails involved have been determined for Dr. Bradley, and also for Mr. A. C. Mackay, Research student, Sydney University, who is studying the fluke disease in sheep. These demands have entailed a review of the whole of the freshwater snails of Australia.

Mr. Iredale has undertaken and nearly completed a study of the Australian Cassids, and in conjunction with Mr. C. Hedley, Honorary Conchologist, is engaged in the preparation of a reference list of the land shells of Australia.

During the year the following papers and articles by Mr. Iredale have been published:

"Results from Roy Bell's Molluscan Collections," Proc. Linn. Soc., N. S. Wales, xlix, 3, 1924.

"A Monograph of the Australian Loricates," Part III, Aust. Zool., iii, 7, 1924. (With A. F.

"A Monograph of the Australian Loricates," Part IV, Aust. Zool, iii, 8, 1925. (With A. F. Basset Hull.)

"Mollusca from the Continental Shelf of Eastern Australia," Rec. Aust. Mus., vol. xiv, 4, 1924.

"Museums of the Past," Aust. Mus. Mag., ii, 3, 1924. "Extinct as the Dodo," Aust. Mus. Mag., ii, 4, 1924.

"Fairy Wrens," Aust. Zoologist, iii, 7, 1924.

Lower Invertebrates (F.A. McNeill, in charge; Cadets A.A. Livingstone and W. Boardman, assistants). The large number of acquisitions dealt with during the year, amounting to about 4,544 specimens, has entailed much work in sorting, registering and cataloguing, and has to a certain extent retarded other activities of the Department.

The chief donations received were those presented by Mr. N. S. Heffernan (Solomon Islands), Dr. W. E. J. Paradice, Mr. J. J. Fletcher (trustee), Mr. G. McAndrew, Mr. W. H. Wooster and Mr. Thomas

Steel.

Mr. Heffernan has presented a fine series of crustacea which have greatly enhanced the value of our reference collection, which formerly contained but scanty material from the Solomons.

From Dr. Paradice we have received a representative series of echinoderms and crustacea from the Great Barrier Reef. The echinoderms have been forwarded to Dr. Lyman Clark, Museum of Comparative Zoology, Cambridge, Massachusetts, for examination and checking, and our thanks are due to this eminent authority for his voluntary service. Work has now commenced on the final sorting of the named collection preparatory to the publication of a list and descriptive notes. A number of bryozoa collected by Dr Paradice are of exceptional interest. These form the subject of a report by Mr. Livingstone now awaiting publication. The last consignment received from Dr. Paradice contained some rare barnacles, which have been forwarded to Dr. H. A. Pilsbry, Philadelphia, for examination and report.

Mr. Fletcher has generously presented his large and valuable collection of oligochætes, including many types and other specimens which formed the basis of his numerous contributions to the literature of the group. These have been carefully registered, labelled and catalogued.

As in previous years, we have received interesting marine specimens from Mr. G. McAndrew of Shellharbour, a very industrious and skilful collector.

For forty years Mr. W. H. Wooster has been collecting bryozoa and he has now presented to the Trustees his large collection, comprising about 1,000 mounted specimens in addition to unmounted bulk material. This valuable donation contains many specimens which have been examined and named by experts working at the group.

The specimens presented by Mr. Steel are mostly rare or aberrant species in various groups. A representative set of land planarians, on which Mr. Steel is a recognised authority, is included in the donation, forming the residue of the main type collection already presented by this generous donor.

By exchange with the Colombo Museum we have received a collection of decapeda from Ceylonese waters, and from the United States National Museum a series of American amphipoda and isopoda in return for Australian forms. From the Natural History Museum of Balderas, Mexico, we have received by exchange a collection of Central American decapoda.

The collection of fresh-water shrimps of the family Atyidæ, which was sent to Dr. Jean Roux, of Basel, Switzerland, in 1923, has now been returned, and will form the nucleus of our named collection of this family. Dr. Roux has submitted a report on the specimens, which will be published in the Records. In return for the duplicates retained Dr. Roux has presented a named collection of New Caledonian Atyidæ. Dr. G. Stiasny, of Leiden, Holland, has just published a report on the Scyphomedusæ from Port Jackson which were forwarded to him in 1922. This work has enabled us to name the duplicate set retained by us, and has added much to our knowledge of this neglected group. Dr. Stiasny is now engaged on an examination of the balance of our Scyphomedusæ and Ctenophora.

Our collection of Sphæromidæ and Isopoda parasitic on fishes has recently been assembled, listed and despatched to the South Australian Museum for examination by Messrs. Hale and Baker, who are now working on these forms and propose to prepare reports on them.

The work of checking, re-arranging and card-cataloguing the collection of Vermes is now completed, and its value as a means of reference is greatly increased thereby. This class of work has been seriously delayed in the past by the lack of suitable bottles and storage space, and now that a small amount of these two essentials has been made available similar work on other groups will proceed. On account of the extra space required for the proper arrangement of the Vermes it was found necessary to transfer the entire spirit collection of mollusca to a new set of shelves in the glassware store.

The following papers were published

"Studies on Australian Bryozoa, No. 2," A. A. Livingstone, Rec. Aust. Mus., xiv, 4, 1925.

A paper "Studies in Australian Carcinology, No. 2," F. A. McNeill, is now ready for publication.

Palwontology (The Director and W. W. Thorpe, in charge).—The principal donations included post-Tertiary mollusca dredged at a depth of about seventy fathoms off the coast of New South Wales, presented by Mr. C. W. Mulvey, Manager, New State Fish and Ice Company; *Meiolania* bones from Lord Howe Island, presented by Messrs. A. R. McCulloch, R. V. Hines and G. Nicholls; various bones of *Diprotodon*, Mullaley, New South Wales, presented by Mr. John Sevil.

During the year the following paper and article were published:—
"Notes on the Extinct Chelonian genus Meiolania, with a record of a New Occurrence," C. Anderson, Rec. Aust. Mus., xiv, 4, 1925

"The Largest Marsupial," C. Anderson, Aust. Mus. Mag., ii, 4, 1924.

Minerals and Rocks (T. Hodge Smith, in charge; Cadet C. M. G. Friend, assistant).—Over 1,390 specimens have been added to the collection during the year. The most important addition is a large collection of Broken Hill minerals obtained by purchase. This collection contains, amongst others, fine examples of Anglesite, Cerussite, Azurite, Marshite, Cupro-plumbite, Dyscrasite, Embolite, Iodyrite, Mimetite and Pyromorphite. We are indebted to Sir Hugh Dixon for a donation towards the purchase of this valuable collection. When Mr. Hodge Smith was at Broken Hill in connection with this purchase, he collected specimens of Wulfenite, Manganhedenbergite and a number of rock samples. A very fine collection of Canadian minerals was obtained by exchange with the Royal Ontario Museum, Canada. A number of specimens of native lead from Mungana, Queensland, was secured by purchase; this is a new record for this rare mineral. The following species not previously represented have been added to the collection: Yttro-cerite. Goongarite. Hollandite. Camsellite. Inyoite. Ulexite, Howlite, Kermesite, Mordenite, Skutterudite, Rammelsbergite, Hatchettolite, Ellsworthite, Temiskamite, Dumortierite, Bentonite, and Manganhedenbergite.

Portion of a new aerolite was presented by Dr. W. Maegillivray of Broken Hill; it was obtained from Elsinora Station, 46 miles north-west of Wanaaring, New South Wales. The description and analysis of this aerolite will appear in the Records of the Australian Museum at a later date.

The work of consolidating the various duplicate collections into one large duplicate collection has again occupied much time and is now almost completed. Rocks have been separated from minerals and entered in a separate register, all the rocks in the collection having been re-registered. Most of this work has been carried out by Mr. Friend.

The following papers have been published :-

Evidence of a Negative Movement of the Strand Line of 400 feet in New South Wales." T. Hodge Smith and Tom Iredale, Journ. Roy. Soc., New South Wales, Iviii, 1924.

"The Story of a Rock dredged from the Sea," T. Hodge Smith, Aust. Mus. Mag., ii, 4, 1924.

"Radium and the Life of the Earth," T. Hodge Smith, Aust. Mus. Mag., ii, 4, 1924.

Numismatics (W. W. Thorpe, in charge).—Donations of special interest include British bronze coins by Mrs, E. D. Gray and Miss K. E. Harbutt; New Zealand copper tokens by Mr. J. Kenderdine; current coins of British Africa and the Belgian Congo by Mr. C. Hedley

The contents of the coin cases near the main entrance have been regularly chan id, and many coinand tokens have been identified for members of the public.

Acquisitions. 1st July, 1924, to 30th June, 1925.

			No. of S1	secimens.		
Department.	Donation.	Exchange.	Purchase.	Collection.	Prepared.	Total.
ertebrätzs-						
Mammals	198	44	1	11	********	254
Birds	208		*******	11	********	219
Reptiles	547	*******	1	47		595
Fishes	147	2		511	22442443	660
Skeletons	44	9	555555555	1201451115	12011211	53
nvertebrates—						
Mollusca	3.540	222	1	768	*******	4,531
Insects and Arachnida	2,940	26	85	1,268	********	4,319
Crustacea	829	177	28	147	******	1,181
Lower Invertebrates	3,206	6	*******	151	*********	3,363
leological						
Fossils	154	1	*******	10		167
Minerals	104	108	1,200	37		1,449
thnological, &c.				1110		and a
Ethnological	405	95	38	137	*******	677
Historical	2	411111111	*******	*******	*******	
Numismatical	62	13	******	*******	*******	73
Miscellaneous—					70 71	74
Micro Sections	********	*********	*******		Reg. 74	21
Casts and Moulds	1	9	*******		19	
Negatives		*********	*******		103	10;
Lantern Slides	*********	********	*******	*******	406	400
Photographs	5	*********	******	*******	********	
	12,389	712	1,354	2,098	602	18,15

The Common Seal of the Museum was hereunto affixed by order of the Board, this thirteenth day of October, 1925.

T. STORIE DIXSON, President. W. T. WELLS, Secretary.

# APPENDICES.

- I. Statement of Receipts and Expenditure for the year ended 30th June, 1925.
   II. Statement of Revenue Account for the year ended 30th June, 1925.
   III. List of the Publications of the Australian Museum.
   IV. Catalogue of the Additions to the Library.

# APPENDIX I. THE AUSTRALIAN MUSEUM.

STATEMENT of Receipts and Expenditure for the Year ended 30th June, 1925.

Receipts.	Endow- ment Account.	Public Account.	Totals.	Expenditure.	Endow- ment Account.	Public Account.	Totals.
To Balances brought forward from last year:  Petty Cash	10 0 0 25 0 0 316 11 5		£ *. d.	By Salaries— Director and Principal Keeper of Collections Secretary Clerical Staff 1st Class Scientific Assistants Librarian Cadets and Assistants Temporary Assistants		£ s. d. 962 2 0 650 0 0 931 10 6 3,410 10 0 440 0 0 1,423 7 8 15 19 6	
Treasury appropriations: Salaries Contingencies		14,537 0 0 2,557 12 8	17.094 12 8	Preparators and Mechanics Attendants Superannuation—Trustees' Contribu-		2,499 2 0 3,113 19 0	
Statutory endowment Sale of publications :— Magazine subscribers Other publications	1,000 0 0 372 5 0 2 19 6		375 4 6	Contingencies — Overtime and Sanday pay Book-binding	**********	451 3 4 299 19 6	1,230 16 6
Magazine advertisements  Miscellaneous:— Discounts on drafts Exchange and sundry	7 13 9 3 15 8		206 0 0	Building, Repairs, & Maintenance— General repairs	368 7 10 9 18 6 29 0 9 68 7 6		
Kanematsu & Co., re specimen Refund of salaries overpaid  Refunds for overpayments and charges		**********	17 1 9 26 13 2	Insurance		475 14 7 242 0 6 158 11 3 65 0 0	
Donations	47 1 10 10 3 1		88 13 4	Statutory, Additional Endowment, and Special Advance:— Stores—Working expers s and supplies— Artificers Working expenses	31 2 6 223 2 0		
Traisfir—City Council— Deposit to Endowment Account Reserve Account to Endowment Account	1,416 0 0	((()))	77 4 11	Printer	2 13 3 38 10 8 7 18 7 24 17 10		328 4 10
State Superannuation Board:  Refund of contributions	1000000	501 0 5	1,732 11 5 504 10 8	Micro-slide Training Fees, &c.  Freights, cartages and charges Collecting specimens Preservation of specimens Purchase of specimens	32 1 9 102 18 5 17 8 4 164 7 5 189 11 3	***********	32 1 9
			62 1 10	Phrehase of specimens Photography and slides Library, books and service Cadets, training fees	50 6 2 412 18 9 26 5 0		524 11 7 412 18 9
				Electric light and gas General expenses Stationery Telephones Publicity Lectures	158 7 7 98 3 11 105 8 5 46 16 4 5 16 0 200 19 7		26 5 0 615 11 10
				Electric fittings and installation Gallery exhibits	174 4 3 31 7 6 42 17 6 44 17 6 6 13 6 89 5 5	************	389 5 8
				Magazine publication and distribu- tion Magazine advertising "Records' publication and distri- bution	564 18 2 114 10 6 384 4 8		1.063 13 4
				Magazine subscriptions, re Angus and Robertson, &c.————————————————————————————————————	59 8 5 2 0 0 1 4 10 14 7 6	***************************************	52 8 5 2 0 0 1 4 10 14 7 6
				Refund to Treasury Refund to Treasury Workmen's Compensation—Refund to Treasury Services prior to 30th June, 1924	3 16 3	62 1 10	69 1 10 5 5 0 694 1 6
				William-street improvements Transfer—Reserve to Endowment Account Balance—Endowment Account (Commercial lianking Co.) Advance Account	694 1 6 316 11 5 119 13 7 25 0 7	**********	316 11 5
		5	21,569 19 10	Perty cash	10 0 /	£	154 13 7 21,569 19 10

Examined and found correct.

# APPENDIX II.

# THE AUSTRALIAN MUSEUM.

# REVENUE ACCOUNT.

Period 1st July, 1924, to 30th June, 1925.

		Salaries	Superan	nuation.			441		Durchass	
		and Overtime.	Employees' Contri- bution.	Trustees' Contri- bution.	Cadets' Training Fees.	Stores and Supplies.	Micro- Slide Cutting.	Book- binding.	Purchases, Services and Expenses.	Debit Total.
cientide Administration— Director Principal Keeper of Collections First-class Scientific Assistants Cadets and Assistants Overtime	***	\$ s. d. 874 13 10 59 13 6 3,277 7 9 1,225 12 0 80 2 6	£ 8. d. 197 16 6	£ s. d. 263 13 4	£ * d. 26 5 0	£ s. d. 38 10 8	£ s. d.	£ s. d.	S 8- d-	£ s.
Micro-slide cutting	of	5,517 9 7 31 4 0 560 1 0 867 12 10	197 16 6 34 15 6 43 19 8	262 12 4 44 10 6 50 1 0	26 5 0	38 10 8 7 18 7 24 17 10 164 7 5	32 1 9	**************************************	17 8 4	6.042 14 63 5 647 5 986 11 17 8 164 7
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ffice Administration— Secretary and Clerical S aff Publicity General Expenses Stationery Telephones Laurances (Fire, Glass and Wo	451131	6.976 7 5	276 11 8 89 0 4	357 3 10	26 5 0	105 8 5	32 1 9	*********	169 15 5 154 6 0 97 9 1 49 19 2	8,073 19 1,691 14 154 6 97 9 105 8 49 19
Insurances (Fire, Glass and Wo men's Compensation) Electric Light and Gas Building Maintenance and Repairs Electric Fittings nad Repairs Working Expenses Library Administration	111111	575 8 2	24 16 10	32 17 2	**************************************	208 12 11 9 15 0		209 19 6	242 0 6 176 13 3 368 7 10 32 0 9	242 0 176 13 368 7 32 0 208 12 942 11
eneral Administration	- 1	9,011 0 9	390 8 10	500 5 4	26 5 0	559 10 10	32 1 9	299 19 6	1,290 12 0	12,143 4
Artificers	***	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20 0 10 48 10 8 161 1 0	51 4 10 156 0 0 523 6 4		30 2 11 2 13 3	********	********	************	707 8 494 1 3,963 12
Pensions Compassionate Allowance Lectures—Overtine Fees to Lecturera Services and Expenses	100 100	13.216 3 4	620 1 1	1,230 16 6		101000101 10111111 101000100 101111111 10111111			158 11 3 65 0 0 123 18 0 73 8 3	17,308 6 158 11 65 0
	11	13,260 8 4	620 1 4	1.230 16 6	26 5 0	592 7 0	32 1 9	209 19 6	1,711 9 6	17,773 8

# MUSEUM MAGAZINE ACCOUNT.

	522 522	g s. d 502 10 5 116 18 3	Cr.
	PUBL	ICATIONS (	OTHER) RECORDS, &c.
Publication and distribution of "Records"		384 4 8	Sales
Forward	200	£18,154 14 6	Sinch   Sinc
		£ 18,154 14 6	Balance to Capital Account

#### APPENDIX III.

List of Available Publications of the Australian Museum :-

1 .- Annual Reports.

Nos. 28-33, 1881-86; 36-44, 1889-97; 46-69, 1899-1923; 70, 1924.

#### 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 Ledernfeld, 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 II, 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.

- History and Description of the Skeleton of a new Sperm Whale in the Australian Museum. By W. S. Wall. 1851.
   The Atoll of Funafuti, Ellice 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 Staff.

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, 1912–13; vol. x, 1913–15; vol. xi, 1916–17; vol. xii, 1917–21; vol. xiii, Nos. 1–6, 1920–23, vol. xiv, Nos. 1–4, 1923–25.

# VIII .- Miscellaneous Publications.

- 1. List of Old Documents and Relies in the Australian Museum, 1884. Reprinted with additions. 1890.
- Descriptive List of Aboriginal Weapons, Implements, &c., 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 Magazine,

Vol. i, Nos. 4-10, 1922-23; vol. ii, Nos. 1-7, 1924-25.

# APPENDIX IV.

# ADDITIONS TO THE LIBRARY.

Reg. No.	Books,	How		200000000	flow
neg, no.		acquired.	Reg. No.	Books.	acquired.
	PART I.—AUTHORS,		21516	Collected Papers. In 1 vol. 4to. Various, 1883.	Presented by J.S.P.
21372	ABEL, O. Grundzüge der Palaeobiologie der Wirbeltiere,		21332	HOLMES, A. Petrographic methods and cal-	Ramsay.
21491	I vol. Svo. Stuttgart, 1911.  [ARGENVILLE, A. J. D.d'.] L'Histoire Naturelle Eclaireie dans deux de ses parties principales la Lithologie et la Conch-Conchyliologie,	Purchased	21391	culations with some examples achieved.  I vol. 8vo. London, 1921.  HORNE, G., and A. AISTON. Savage Life in Central Australia.	Purchased
	dont l'une Traite des Pierres et l'autre des Coquillages.  1 vol. 4to, Paris, 1742.	Presented	21427	1 vol. 8vo. London, 1924. HUTTON, F. W. and J. DRUMMOND. The Animals of New Zealand. 4th edition, revised	Purchased
21374	BAUDON, Le A. Monographie des Succinées	by Mr. T. Iredale.	21371	and enlarged.  I vol. 8vo. New Zealand, 1923  HUXLEY, T. H. The Crayfish: an introduction to the Study of Zoology.	Purchased
	Françaises, [with] Supplements 1–2, 1877–79: Monographie des Succinées Françaises, Paris, 1881. (Extracts from "Journal de Conchylio-		21533	I vol. 8vo. London, 1880. IMMS, A. D. A General Textbook of Ento- mology, including the Anatomy, Physiology,	Purchased
	logie"). In 1 vol. 8vo. Paris, 1877–81.	Presented by J. J. Fletcher,	21378	Development and Classification of Insects.  1 vol. 8vo. London, 1925.  JEFFREYS, J. G. Collected Papers on Con-	Presented
21376	BLYTH, E. Collected papers on Natural History.  1 vol. 8vo. Various. [1850-60].		21387	chology. in I vol. 8vo. Various, 1860-84.  JOHANNSEN, A. Manual of Petrographic	by J. J. Fletcher.
21534	BUCKNILL, C. E. R. Sea Shells of New Zea-	by J. J. Fletcher.	21333	Methods,  I vol. 8vo. New York, 1914.  KERR, J. G. Text-book of Embryology, Vol.  II. 1 vol. 8vo. London, 1919.	
21369	land.  1 vol. 4to. Wellington, &c. n.d.  BUTLER, E. A. A Biology of the British	Purchased	21334	KINGSLEY, J. S. Outlines of Comparative Anatomy of Vertebrates. 2nd edition, re- vised. 1 vol. 8vo. London, n.d.	
21518	Hemiptera-Heteroptera. i vol. 4to. London, 1923. CENTENNIAL INTERNATIONAL EXHI- BITION, MELBOURNE, 1888-89. Report	Purchased	21370	LEE, A. B. The Microtomist's Vade-Mecum, 8th edition. 1 vol. 8vo. London, 1924.	
	by the Honorable R. Burdett Smith, C.M.G., M.L.C., Executive Commissioner for the with appendices and views of New South		21520	LOVÉN, S. On Pourtalesia, a Genus of Echinoi- dea (K. Svenska Vet. Akad., Handl., XIX, 7, (1883.)	Presented
	Wales Court.  1 vol. 8vo Sydney, 1890.	by Mr.		1 vol. 4to. Stockholm, 1883.	by Mr. J. S. P. Ramsay.
21120	CHARLTON, W. K. Parliamentary Govern-	J. S. P. Ramsay.	21388	MacFARLANE, J. M. The Evolution and Dis- tribution of Fishes.	
21426	ment in New South Wales (a brief sketch), 25th August, 1824, to 25th August, 1924. 1 vol. 8vo. Sydney, 1924.	Presented by Mr. C.	21513-14	I vol. 8 vo. New York, 1923.  MELBOURNE INTERNATIONAL EXHIBI- TION, 1880. The Official Catalogue of the Exhibits, with introductory Notices of the	Purchased
21373	CLARK, W. Collected Papers on British Marine Testaceous Molluscs. 1 vol. Syo. Various, 1849-57.	Hedley.		Countries exhibiting. Vols. I-II. 2nd ed. of first issue.  2 vols. 8vo. Melbourne, 1880.	Presented by Mr. J. S. P.
		by J. J. Fletcher.	21519	OGILBY, J. D. Catalogue of the Fishes of New South Wales, with their principal	Ramsay.
91~~~	COLONIAL AND INDIAN EXHIBITION, LONDON, 1886. Reports on the Colonial Sections of the Exhibition, by H. Trueman Wood. 1 vol. 8vo. London, 1887.	Presented		Synonyms. 1 vol. 4to, Sydney, 1886.	Presented by Mr. J. S. P. Ramsay.
	Total	by Mr. J. S. P. Ramsay.	21535	PALLARY, P. Catalogue de la Faune Mala- cologique d'Egypte, (Mem., Inst. Egyptien, VI, 1, 1909.)	Presented
21536	COX, J. C. A Monograph of Australian Land Shells.  1 vol. 4to. Sydney, 1868.	Hedley.	91977	I vol. 4to. Le Caire, 1909.  PAMPHLETS, 8vo. series, vol. CXVI, Mollusca	by Mr. C. Hedley.
21477	DIGGLES, S. Diggles's Ornithology of Australia.  1 vol. Fol. n.d.	by A. M.	21377 21512	V. 1 vol. 8vo. Various. PARIS UNIVERSAL EXHIBITION, 1878.	Presented
21375	FRAUENFELD, G. R. von. Collected Papers on Entomology. 1 vol. 8vo. Wien, 1863-72.	Presented by Mr. J. J.		Report of Her Majesty's Commissioners for the of 1878, to Vol. II. 1 vol. 8vo. London, 1880.	Presented by Mr. J. S. P. Ramsay.
21428	FROGGATT, Gladys H. The World of Little Lives. 1 vol. 8vo. Australia, 1924.	Fletcher. Presented by Pub-	21429 21335	PHILIP, G. Philip's New World Atlas. I vol. Fol. London. n.d. PONTING, H. G. The Great White South or	
21476	GOULD, John. The Dates of Publication of	lisher.		with Scott in the Antarctic, being an account of experiences with Captain Scott's South Pole Expedition and of the nature life of the Antarctic.	
4	Gould, F.R.S. Compiled by F. H. Water- house, A.L.S. 1 vol. 8vo. London, 1885.	Presented by Mr. T. Iredale.	21532	1 vol. 8vo. London, 1923. STEP, E. Go to the Ant; a popular account of the natural history of Ants in all Countries.	
21515	GREAT INTERNATIONAL FISHERIES EX- HIBITION, LONDON, 1883. Official Cata- logue, first edition.	Presented by J.S.P.	21402-03	1 vol. 8vo. London, 1924. TRYON, G. W. and H. PILSBRY. Manual of Conchology, vols. XXIV-XXV.	
	1 vol. 8vo. London, 1883.	by J.S.P. Ramsay.		In 2 vols. 8vo. London, 1916-20.	Purchased

	PART II.—PERIODICALS.  INTERNATIONAL.  CONGRES GEOLOGIQUE INTERNA- TIONAL. Comptes Rendus de la XIIIe		21545-72	ANNALS OF BUILDSORRY or Managing of	
	CONGRES GEOLOGIQUE INTERNA- TIONAL, Comutes Rendus de la XIIIe			ANNALS OF PHILOSOPHY, or Magazine of Chemistry, Mineralogy, Mechanics, Natural	
	TIONAL. Comples Rendus de la 2011e			History, Agriculture, and the Arts. Edited by Thomas Thomson and others. Vols, I-XXVIII.	
	session, en Belgique, 1922. Fasc. 1-2. 1 vol. 8vo. Liege, 1924.			28 vols. 8vo. London, 1813–26. BRITISH ASSOCIATION FOR THE	
	AUSTRALASIA.		21485	ADVANCEMENT OF SCIENCE.  Report of the XCIInd meeting (XCIVth year), Toronto, August 6-13th, 1924.	
	COMMONWEALTH OF AUSTRALIA.  COMMONWEALTH BUREAU OF CENSUS AND STATISTICS. Historical Records of Australia. Series I.		21522	1 vol. Svo. London, 1925.  Handbook of Canada. Issued by the Local Committee on the occasion of the meeting of the at Toronto, August, 1924.	
21368 21392 21431 21537	Vol. XX, February, 1839-September, 1840. XXI, October, 1840-March, 1842. XXII, April, 1842-June, 1843. XXIII, July, 1843-September, 1844.		21433	1 vol. 8vo. Toronto, 1924, BRITISH MUSEUM (NATURAL HISTORY). The Bombyliidæ of the Ethiopian Region	
21396	In 4 vols. Svo. Melbourne, 1924-2: Official Year Book of the Commonwealth No. 17, 1924.			based on material in the by Mario Bezzi. I vol. 8vo. London, 1924.	
	1 vol. 8vo. Melbourne, 1924 ROYAL AUSTRALASIAN ORNITHOLO- GISTS' UNION. Index to vols. I-XX of the Emu.		21449 21450	BRITISH ORNITHOLOGISTS' UNION, The Ibis, 11th series, Vol. V, 1923. VI, 1924.	
	1 vol. 8vo. London, 1922. New South Wales.	Purchased		2 vols. 8vo. London, 1923-24, ENTOMOLOGICAL SOCIETY OF LONDON.	Purchased
21504	FISHERIES, DEPARTMENT OF. Report of the Royal Commission appointed on		21408 21411	Transactions, 1923. 1924. 2 vols. 8vo. London, 1923-24.	Purchased
	the 8th January, 1880, to inquire into and report upon the actual state and prospect of the Fisheries of this Colony. 1 vol. 8vo. Sydney, 1880		21407	ENTOMOLOGISTS' MONTHLY MAGAZINE. Vols. LVIII-LIX, 1922-23, In 1 vol. 8vo. London, 1922-23.	
	The Fisheries Act, 1881, and the Regulations and Proclamations thereunder 1 vol. 8vo. Sydney, 1882	Ramsay. s Presented by J. S. P. 2 Ramsay.	21409	ENTOMOLOGY, IMPERIAL BUREAU OF. Bulletin of Entomological Research— Vol. XIII, 1922-23.	
21506	Fisheries of the Colony. Report of the Commissioners of Fisheries up to 31st December 1888.	Ramsay.	21410	XIV, 1923-24. In 2 vols. 4to. London, 1922-24. MALACOLOGICAL SOCIETY OF LONDON.	Purchased
	l vol. Fol. Sydney, 1889.  ROYAL SOCIETY OF N.S.W.  Transactions for the year 1867. vol. I.  1 vol. 8vo. Sydney, 1868	Presented	21401 21399 21400	Proceedings, Vols. XIV-XV, 1920-23. 1 vol. 8vo. London, 1920-23. NATURE, Vol. CXII, July-December, 1923. CXIII, January-July, 1924.	Purchased
21430	Year Book. The Official Year Book of New South Wales, 1923. 1 vol. 4to. Sydney, 1924	Presented	21432	2 vols. 4to. London, 1923-24. RAY SOCIETY. The British Charophyta, by James Russell and G. R. Bullock-Webster. Vol. II,	
	South Australia. SOUTH AUSTRALIAN ORNITHOLOGIST.			Chareæ. Issued for the year 1923. 1 vol. 8vo. London, 1924.	Purchased
21448	Vols. I–IV, 1914–19. 1 vol. 8vo. Adelaide, 1914–19 Tasmania.	Purchased	21402	Proceedings and Monthly Record of top- graphy.  New Monthly Series—	
21597	FISHERIES, ROYAL COMMISSION ON. Report of the Commissioners, together with General and Critical Observations on the Fisheries of the Colony; Classified Catalogue		21492 21493 21494	Vol. XI, Nos. 2-12, 1889. XII, 1-8, 1890. XIII, 1-2, 4, 7-9, 11, 1891;	
	of all the known species 1 vol. Fol. Tasmania, 1883.	Presented by J. S. P.	21495	XIV, 1-12, 1892. In 4 vols. 8vo. London, 1889-1892. The Geographical Journal, including the Proceedings of the	
	DOMINION OF NEW ZEALAND.  NEW ZEALAND INSTITUTE.  Fransactions and Proceedings, vol. LV (new	Ramsay.	21496 21497 21498 21499	Vol. I, Nos. 1-6, JanJune, 1893. II, Nos. 1-6, July-Dec., 1893. III, Nos. 1-4, 6, JanJune, 1894. IV, Nos. 1-6, July-Dec., 1894.	Decrees
	issue). 1 vol. 8vo. Wellington, 1924.			In 4 vols. 8vo. London, 1893–94.	Ramsay.
21538	Papua.  ANTHROPOLOGY REPORT No. 5. The		21422-23	The Geographical Journal, Vols. LXI-LXII, 1923.  In 2 vols. 8vo. London, 1923.	
	Natives of the Purari Delta, by F. E. Williams.  1 vol. 8vo. Port Moresby, 1924			SCIENTIFIC AND LEARNED SOCIETIES OF GREAT BRITAIN AND IRELAND.	
	United Kingdom.  London.	, southed	21484	The Year Book of the a record of the work done in Science, Literature and Art during the session 1923–24 by numerous Societies and Government institutions.	
grava a	ANNALS AND MAGAZINE OF NATURAL HISTORY. 9th series, vol. XII, 1923. XIII, 1924.		21395	41st Annual Issue. 1 vol. 8vo. London, 1924. ZOOLOGICAL RECORD, Volume the Fifty- ninth, being records of zoological literature relating chiefly to the year 1922.	

Reg. No.	Books.	How acquired	Reg. No.	Books.	How acquired,
21521	ENGLAND.  LIVERPOOL BIOLOGICAL SOCIETY.  Proceedings and Transactions— Vol. XXXVIII, session 1923–24.		21325	Smithsonian Miscellaneous Collections, Vol. LXXIV, No. 1. Smithsonian Mathematical Formulæ and Tables of Elliptic Functions, by E. P. Adams and R. L. Hippisley.	
	1 vol. Svo. Liverpool, 1924.  LIVERPOOL MARINE BIOLOGY COM-	Presented		1 vol. 8vo. Washington, D.C., 1922. UNITED STATES GEOLOGICAL SURVEY.	Presented
	L.M.B.C. Memoirs on typical British Marine Plants and Animals.		21523-28		Presented
21366	Vol. XXIV. Aplysia, by N. B. Eales, 1921.			UNITED STATES NATIONAL MUSEUM.	**********
21367	XXV. Asterias, by H. C. Chadwick, 1923.		21465-66	Bulletins, Nes. 120–125, 1922–23.	
21539	2 vols. 8vo. Liverpool and London, 1921-23. The Marine Biological Station at Port Erin (Isle of Man), being the XXth Annual Report of the		21475 21467-68 21324	In 3 vols. 8vo. Washington, D.C., 1922-23.	
	IRETAND.			1923.	D
	ROYAL IRISH ACADEMY.	Presented		1 vol. 8vo. Washington, D.C., 1923.	Fresenteo
21500 21501	I vol. 4to. Dublin, 1890.	by J. S. P. Ramsay. Presented	21381	CALIFORNIA STATE MINING BUREAU. Bulletin, No. 92. 1 vol. 8vo. Sacramento, 1923.	Presented
21001	1 vol. 8vo. Dublin, 1889-91.			UNIVERSITY OF CALIFORNIA.	
21502		Presented by J. S. P. Ramsay.	21456-60	. PARTING AND	Presented
	British Dominions.		21461	Publications in Entomology, Vol. I, 1906–22, 1 vol. 4to. Berkeley, 1906–22.	Presented
22000	ONTARIO, MINISTER FOR EDUCATION.		21462-64		
21386	Thirty-fourth Annual Archæological Report, 1923.	N -misson		Connecticut.	Tresentee
	I vol. 8vo. Toronto, 1924.  ROYAL SOCIETY OF CANADA.	Presented		CONNECTICUT STATE GEOLOGICAL AND NATURAL HISTORY SURVEY.	
21479	Proceedings and Transactions, 3rd Series, Vol. XVIII, Meeting of May, 1924. 1 vol. 4to. Ottawa and London, 1924.	Presented	21469-72	Bulletin, Nos. 22-34, 1915-23. In 4 vols. 8vo. Hartford, 1915-23. YALE UNIVERSITY.	Presented
	India.		21385	Lectures on Cauchy's Problems in Linear	
21389	MADRAS FISHERY DEPARTMENT. Bulletin No. XVII. Fishery Reports for 192; 1 vol. 8vo. Madras, 1924.			Partial Differential Equations, by Jacques Hadamard. 1 vol. 8vo. New Haven, 1923.	Presented
	United States of America.	Agent at exercis several ser		Illinois.	
	District of Columbia.		Verally are years	STATE GEOLOGICAL SURVEY.	
21499	AGRICULTURE, DEPARTMENT OF Agriculture Year Book, 1923.		21480-81	2 vols. 8vo. Urbana, 1919–20.	Presented
	1 vol. 8vo. Washington, D.C., 1924.	Presented		MICHIGAN. AGRICULTURE, STATE BOARD OF.	
21489	AMERICAN ETHNOLOGY, BUREAU OF.  38th Annual Report of the to the Secretary of the Smithsonian Institution, 1916-17.		21383 21482}	Sixty-first and Sixty-second Annual Reports to the Secretary of the and Thirty- Fifth and Thirty-sixth Annual Reports of	
21322	1 vol. 4to. Washington, D.C., 1924. Bulletin, 80, Mandan and Hidatsa Music, by F. Desmore.	Presented		the Experiment Station, from July 1, 1921, to June 30, 1923. 2 vols. 8vo. Lansing, 1923-24.	Presente
21323	81, Excavations in the Chama Valley, New Mexico, by J. A. Jeancon,	*	9	MICHIGAN ACADEMY OF ARTS, SCIENCE AND LETTERS.	
	2 vols. 8vo. Washington, D.C., 1923.	Presented	$\frac{2}{2}$	Papers, Vol. II, 1923. III, 1924.	***************************************
	FISHERIES, BUREAU OF.		E. Control of the Con	2 vols. 8vo. New York, 1923-24.	Presented
21541	Bulletin, vol. XXXIX, 1923–24. 2 vols. 4to. Washington, D.C., 1924.	Presented		UNIVERSITY OF MICHIGAN. MUSEUM OF GEOLOGY.	
1542	Report of the United States Commissioners of Fisheries for the fiscal year 1923, with appendices. 1 vol. 8vo. Washington, D.C., 1924.		21543	Contributions, Vol. I.  1 vol. 8vo. New York, 1924.  New Jersey.	Presented
	LIBRARY OF CONGRESS.	THE PERSON NAMED IN		NEW JERSEY STATE MUSEUM.	
21326 21540	Report of the Librarian of Congress for the fiscal years ending June 30, 1923, and 1924.  2 vols. 8vo. Washington, D.C., 1923.	Presented	21530	Annual Report , including a Report of the Insects of New Jersey, by John B. Smith, for the year 1908. I vol. 8vo. Trenton, 1910.	Presented
	SMITHSONIAN INSTITUTION.			New York.	
21487	Annual Report of the Board of Regents showing the operations, expenditures and		21488	AMERICAN MUSEUM OF NATURAL HISTORY. Fifty-fifth Annual Report of the Trustees,	
	conditions of the Institution for the year ending June 30, 1922. 1 vol. 8vo. Washington, D.C., 1924.	Presented		for the year 1923. 1 vol. 8vo. New York, 1924.	Presente

Reg. No.	Books.	How acquired,	Reg. No.	Books.	How acquired,
21321 21531	Handbook series, Nos. 9-11.			MUSEUM D'HISTORIE NATURELLE DE PARIS.	
21393	3 vols. Svo. New York, 1923-24. A Bibliography of Fishes, by Bashford Dean. Vol. III.			Nouvelles Annales, 3rd Serie, Tomes I-IV, 1832–35. 4 vols. 4to. Paris, 1832–35. Nouvelles Archives, 2nd Serie, Tomes II-X, 1879–88. In 9 vols. 4to. Paris, 1879–88	
21394	1 vol. 8vo. New York, 1923. Contributions to Indiana Palæontology, by G. K. Greene, Vol. I, parts 1-20, II, 1-3.			Nouvelles Archives, 3rd Serie, Tomes I-VII, IX-X, 1889-98. In 9 vols. 4to. Paris, 1889-98.	
21308-20	In I vol. 8vo. New Albany, 1898-1906.  AMERICAN NATURALIST.  Vols. VII-XVI, 1873-1882.	Fresented	21354-61	Nouvelles Archives, 4th Serie, Tomes I-II, IV-VII, IX-X, 1899-1908. In 8 vols. 4to. Paris, 1899-1908.	Purchased
21000-20	In 13 vols. 8vo. Philadelphia, &c. 1873-82.	Crane.	21508	REVUE UNIVERSELLE, dirige par Ch. Daniel et A. Boucherie.	7
21473-74	Vols. LYH-LVIII, Nos. 648-659, 1923-24. 2 vols. 4to. New York, 1923-24. NEW YORK STATE MUSEUM.	Purchased		Livr. XIV-XVII. Fevrier-Mai, 1872. In 1 vol. 8vo. Nantes, 1873.	Presented
21486	Memoir No. 16. 1 vol. 4to. Albany, 1923.	Presented	21412_14	GERMANY.  ARCHIV FÜR NATURGESCHICHTE.  Jahrg LXXIX. Abt. B, 1913, b. 1-12.	
	NORTH CAROLINA GEOLOGICAL AND ECONOMIC SURVEY.		21415-17 21421 21418	LXXX A, 1914, 1-12, B, 1-4 LXXXI B, 1915, 1-6	
21382	Vol. IV, Birds of North Carolina, by T. G. Pearson, C. S. Brimley, and H. H. Brimley. 1 vol. 4to. Raleigh, 1919.		21419-20	In 10 vols. 8vo. Berlin, &c. 1913-22	Purchased
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