

1928.

## NEW SOUTH WALES.

# AUSTRALIAN MUSEUM.

(ANNUAL REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30TH JUNE, 1927.)

TO HIS EXCELLENCY THE GOVERNOR,

The Trustees of the Australian Museum have the honor to submit to your Excellency their seventy-third report, being for the year ended 30th June, 1927;

### 1. TRUSTEES.

The resignations of two Trustees were accepted with extreme regret. Mr. Ernest Wunderlich, F.R.A.S., who had been a Trustee since April, 1914, and who was elected President in December, 1925, resigned on 6th August, 1926. Mr. Wunderlich took great interest in the affairs of the institution, to which he was a generous benefactor. The fine aboriginal group now on view was his gift, and it was at his suggestion and, above all, by his efforts that The Australian Museum Magazine was successfully launched. Sir William Vicars, elected August, 1923, resigned on 6th August; by his resignation the Board has lost the services of a Trustee whose judgment and eminent qualifications made him a valued colleague.

Dr. G. A. Waterhouse, B.E., F.E.S., was elected on 2nd July in place of the late J. J. Fletcher. The Hon. Dr. F. E. Wall, M.L.C., and Mr. F. S. Manee, Under Secretary for Mines, were elected on 1st October to fill the two vacancies caused by the resignations indicated.

On 1st October Sir Charles Rosenthal was elected as President, to hold office for the remainder of the calendar year, and in December he was re-elected for the year 1927.

A list of the Trustees, with a record of their attendances at Board meetings, is shown in Appendix A. Eleven ordinary and six special meetings were held during the year.

Three sectional committees, elected early in December, meet monthly and make recommendations to the Board on matters coming within their purview. In addition, special committees are appointed from time to time to deal with specific matters. A list of members of the committees of the year, with their attendances at meetings, is shown in Appendix B. The President is *ex officio* a member of each committee.

### 2. STAFF.

Charles Hedley, Honorary Conchologist, died on 11th September, 1926. He had been connected with the Museum for the long period of thirty-five years, and his death removes one who has done much to advance the work of the institution, not only by his voluminous scientific writings, but also by his many donations.

New appointments include that of Mr. S. G. Gray as Probationary Cadet in Ethnology, 11th April, 1927, and of Mr. J. S. Rolfe, Junior Clerk, 10th January, 1927. Mr. Arthur Barnes, Chief Attendant, retired in October, after nearly thirty years' service; he was succeeded by Mr. T. A. Murphy, formerly Clerk.

Museum officers, having made application for Awards under the Industrial Arbitration (Amendment) Act, 1926, claims were duly presented and received consideration by the Trustees. An Award, No. 346, was made for Professional Officers, and Awards for Preparators, Mechanics and Attendants were approaching the final stages towards the end of the financial year.

A list of the Staff and of Honorary Officers will be found in Appendices C and D.

### 3. CENTENARY.

There is reason for believing that the Museum had its beginning in 1827, although it was not then styled the Australian Museum. The Trustees have given consideration to the possibility of celebrating the centenary year in some fitting manner, but no finality has yet been reached.



## 4. BUILDINGS AND GROUNDS.

Serious consideration has been given to the subject of the extension of the Museum buildings. The Trustees realise that the completion of the William-street facade should be their objective, and the President prepared sketch plans, which were duly considered and approved by the Board. It was resolved that the Government should be approached with a request that the necessary funds be voted, and the President, Dr. Wall, Messrs. Blair, Cambage, and McKern were deputed to wait upon the Minister for Education and place before him the urgent needs of the Museum in regard to gallery and storage space. It is eminently desirable that the centenary year of the institution should not be allowed to pass without some signal recognition, and there could be no more fitting celebration than the commencement of much needed additions.

The spirit collections have so increased that additional space is badly needed. The Department of Public Works has been approached with the request that a sum of money should be included in its estimates for the purpose of adding a second storey to the existing spirit house, and it is confidently expected that in the coming year this additional storage accommodation will be provided.

The subject of improved ventilation of the Lecture Hall was further considered. At the request of the Board a scheme was submitted and approved, but the Department of Public Works reported that it could not make available the funds necessary for the completion of the work.

Various items of repairs and maintenance have been carried out by the Department of Public Works during the year; these included work on the guttering, ceilings, roof cover moulds, painting, tarpaving and renewals of pathways.

The alteration of the William-street levels having been completed, the necessary adjustments to the stone retaining wall and goods entrance were made by the City Council.

## 5. HONORARY CORRESPONDENTS.

The following benefactors have been elected as Honorary Correspondents during the year:—Messrs. James Burns, R. H. and R. R. Dangar, A. F. Basset Hull, the Hon. Sir Alfred Meeks, M.L.C., Dr. W. E. J. Paradise, Dr. A. Jefferis Turner, Miss Eadith Walker, C.B.E. By death we have lost an Honorary Correspondent, Sir Hugh Dixon.

A complete list of Honorary Correspondents is shown in Appendix E.

## 6. ATTENDANCE OF VISITORS.

The record of attendance during the year reached the total of 283,933, the largest in the history of the Museum. Statistics of attendance for the years 1917 to 1927, are subjoined:—

							Week-days.	Sundays.	Total.
1917-1918	...	...	...	...	...	...	140,977	59,920	200,897
1918-1919	...	...	...	...	...	...	142,977	63,520	206,497
1919-1920	...	...	...	...	...	...	145,058	52,490	197,548
1920-1921	...	...	...	...	...	...	159,576	63,016	222,592
1921-1922	...	...	...	...	...	...	151,544	62,889	214,433
1922-1923	...	...	...	...	...	...	145,271	56,600	202,871
1923-1924	...	...	...	...	...	...	180,474	69,037	249,511
1924-1925	...	...	...	...	...	...	168,880	70,478	239,358
1925-1926	...	...	...	...	...	...	207,128	69,745	276,873
1926-1927	...	...	...	...	...	...	208,617	79,316	287,933

## 7. EXHIBITS.

The principal new exhibits installed during the year include a series of skulls and skull casts illustrating the geological history of man in Europe and elsewhere. A fine group of the Queensland Lung Fish (*Neoceratodus*) has been added to the fish gallery. The group contains coloured casts of three specimens, with appropriate accessories, and represents a section of the river bed where these fishes live. Accessories and data for the construction of this exhibit were kindly supplied by Dr. T. L. Bancroft, of Eidsvold, Queensland. The casts were prepared by Messrs. Clutton and Kingsley, Preparators, and coloured by Miss H. E. Bailey and Miss E. A. King. A large Sawfish presented by the Manly Surf Club, was cast by Messrs. Clutton and Kingsley and coloured by Miss King. It is now exhibited in a special case, forming a central exhibit which has attracted much attention. A Ptarmigan group was placed on exhibition to illustrate the change from autumn to winter plumage. The background of this exhibit was painted by Miss King.

## 8. POSTCARDS.

During the year a series of thirty coloured postcards of Australian birds was issued, the drawings having been made by Mrs. T. Iredale. The series is arranged in sets of five, each set contained in a covering envelope and accompanied by an explanatory leaflet with interesting data relating to each subject. These postcards have been well received, and the venture, designed principally for educational purposes, promises to be a complete success. Additional series illustrating our mammals, birds' eggs, fishes, and other subjects will be issued as funds permit.

## 9. THE AUSTRALIAN MUSEUM MAGAZINE.

This publication continues to be in demand, and is now well established as a periodical of popular natural history. During the year Volume II was completed, and parts 1 and 2 of Volume III have been issued.



## 10. LIBRARY.

The accessions totalled 449 volumes as detailed in Appendix F, besides a large number of parts and reprints. The relatives of the late A. R. McCulloch, formerly Ichthyologist, presented his valuable library of reprints and works of reference, the gatherings of many years. In memory of her husband, the late Charles Hedley, Mrs. H. Georgina Hedley presented a large number of his scientific papers and books. Mr. Hedley had been an extremely generous supporter of the library, spending lavishly on its behalf, and it is largely due to his efforts that the library possesses so many rare works.

Congestion is still acute, and the passage of time serves only to increase it. A library scattered through corridors and basements does not make for efficiency, yet this has been the position for years past and the remedy is still to seek. Details have been worked out for additional shelving in various workrooms, and this, when in use, will temporarily relieve the crowding. The Assistant Librarian, Mr. F. D. McCarthy, has continued his revision of the Catalogue, which is now in a fairly advanced state. Progress has been made with binding, though more could have been undertaken had additional funds been available.

The Librarian, Mr. W. A. Rainbow, has continued to devote a considerable portion of his time to editorial work and the supervision of the printing of publications. He has also been frequently called upon to assist students and the press with information.

## 11. LECTURES.

The following details of lectures are furnished:—

*Popular Science Lectures.*

Date.	Subject.	Lecturer.	Attendance.
8 July, 1926 ...	With Scott in the Antaretic ...	Prof. Griffith Taylor ...	327
15 " " ...	" " (repeated) ...	" " ...	205
22 " " ...	The Charm of Our National Parks ...	A. H. Chisholm ...	234
12 Aug., " ...	By Bushland and Shore ...	J. R. Kinghorn ...	258
26 " " ...	Origins of Human Invention ...	W. W. Thorpe ...	227
9 Sept., " ...	Natural History of Coal ...	T. H. Smith ...	262
23 " " ...	Organic Evolution ...	C. Anderson ...	219
14 Oct., " ...	Filming the Unknown ...	E. A. Briggs ...	322
22 " " ...	Some Remarkable Fishes ...	T. C. Roughley ...	256
11 Nov., " ...	Museum Work in Bush and Desert ...	E. Le G. Troughton ...	193
28 April, 1927 ...	The Romance of Gold Mining in N.S.W. ...	T. H. Smith ...	251
12 May, " ...	Camera Studies of Australian Birds ...	E. F. Pollock ...	278
26 " " ...	A Visit to Java ...	R. H. Cabbage ...	328
2 June, " ...	" (repeated) ...	" " ...	177
9 " " ...	Common Objects of the Sydney Bush ...	F. L. Grutzmacher ...	262
23 " " ...	Who's Who among the Reptiles... ...	J. R. Kinghorn ...	236
			4,035

*School Lectures.*

10 Aug., 1926 ...	Reptiles ...	J. R. Kinghorn ...	280
24 " " ...	" " ...	" " ...	196
7 Sept., " ...	Insects ...	A. Musgrave ...	220
21 " " ...	" " ...	T. G. Campbell ...	189
5 Oct., " ...	Shells ...	W. Boardman ...	193
18 May, 1927 ...	Birds ...	J. R. Kinghorn ...	186
31 " " ...	" " ...	" " ...	260
14 June, " ...	Mammals ...	E. Le G. Troughton ...	214
			1,738

*Lectures to Pupils of Deaf and Dumb and the Blind Institution.*

20 July, 1926 ...	New Guinea ...	W. W. Thorpe ...	8
3 Aug., " ...	Shells ...	Miss M. J. Allan ...	9
17 " " ...	Worms ...	W. Boardman ...	8
31 " " ...	Crustacea ...	" " ...	8
14 Sept., " ...	Barnacles and Sea Squirts ...	" " ...	8
28 " " ...	Trawling ...	" " ...	9
3 May, 1927 ...	Eskimos and Red Indians ...	W. W. Thorpe ...	17
25 " " ...	Birds ...	J. R. Kinghorn ...	12
7 June " ...	The Maori ...	W. W. Thorpe ...	16
			95

*Lectures at Boys' High School, Ultimo.*

14 Oct., 1926 ...	By Bushland and Shore ...	J. R. Kinghorn ...	400
25 Nov. " ...	The Biology of a Coral Islet ...	A. Musgrave ...	320
5 Dec. " ...	A Naturalist with Captain Cook... ...	T. Iredale ...	420
19 May, 1927 ...	Snakes and Snake Bite ...	J. R. Kinghorn ...	500
9 June " ...	Australian Aborigines ...	W. W. Thorpe ...	500

2,140



*Other Lectures in the Museum.*

Date.	Subject.	Lecturer.	Attendance.
22 Feb., 1927 ...	Palaeontology ... (Pupils of Croydon Ladies' College.)	H. O. Fletcher ...	35
1 Mar., " ...	Primitive Man ... (Pupils of Sydney Kindergarten Training College.)	W. W. Thorpe ...	19
22 " " ...	Egypt ... (Pupils of Sydney Kindergarten Training College.)	W. W. Thorpe ...	18
29 " " ...	Animals of the Past ... (Pupils of Sydney Kindergarten Training College.)	Dr. C. Anderson ...	16
26 May, " ...	Australian Animals ... (Boy Migrants.)	J. R. Kinghorn and E. Le G. Troughton.	62
			150

*Extension Lectures.*

12 Aug., 1926 ...	A Naturalist with Captain Cook ... (H.M.A.S. "Tingira.")	T. Iredale ...	220
17 Aug., " ...	In the Queensland Bush ... (The Royal Colonial Institute, Sydney.)	A. Musgrave ...	60
31 Aug., " ...	Birds in Relation to Agriculture ... (Australian Society of Patriots, Newcastle.)	J. R. Kinghorn ...	100
2 Sept., " ...	Egypt ... (Maccabean Literary Institute, Darlinghurst.)	W. W. Thorpe ...	100
11 Sept., " ...	Extinct Birds ... (Workers' Educational Association, Sydney.)	T. Iredale ...	60
13 Sept., " ...	Habits, Food and Value of Birds ... (Girl Guides' Association, Sydney.)	J. R. Kinghorn ...	100
18 Sept., " ...	Wonders of the Deep Sea ... (Broadcasted—Children's Radio Club, Farmer & Co., Ltd.)	T. Iredale ...	400
21 Sept., " ...	Meteorites ... (University Science Society.)	T. H. Smith ...	50
8 Oct., " ...	Value of Birds to Man ... (Agricultural Bureau, Boreenore.)	J. R. Kinghorn ...	30
12 Oct., " ...	Our Feathered Friends ... (Railway Institute, Cowra.)	J. R. Kinghorn ...	250
19 Oct., " ...	A Naturalist with Captain Cook ... (The Royal Colonial Institute, Sydney.)	T. Iredale ...	40
10 Nov., " ...	By Bushland and Shore ... (Y.M.C.A., Sydney.)	J. R. Kinghorn ...	80
19 Nov., " ...	Conchology ... (Sydney Lyceum Club.)	T. Iredale ...	26
19 Jan., 1927 ...	Lord Howe Island ... (Banksia Free Church Young People's Institute.)	A. Musgrave ...	76
17 Mar., " ...	The Romance of Ocean Depths ... (H.M.A.S. "Tingira.")	T. Iredale ...	120
7 April, " ...	Lord Howe Island ... (St. Stephen's Recreation Club, Edgecliff.)	A. Musgrave ...	84
20 April, " ...	Origins of Human Invention ... (Banksia Free Church Young Peoples' Institute.)	W. W. Thorpe ...	51
21 April, " ...	Some Wonders of Nature ... (Royal Agricultural Society's Show.)	J. R. Kinghorn ...	25
15 June, " ...	Lord Howe Island ... (Woollahra Public School Parents and Citizens' Association.)	A. Musgrave ...	90
			1,962

*Unofficial Lectures.*

21 Sept., 1926 ...	Romance of Ocean Depths ... (Manly Methodist Guild.)	T. Iredale ...	100
27 Sept., " ...	Insect Life of Sydney Bushland ... (St. Matthews, Manly.)	T. G. Campbell ...	60
16 Oct., " ...	Wonders of the Seashore ... (Manly Methodist Guild.)	W. Boardman ...	100
25 Oct., " ...	Sea-Life ... (Queenscliff Life-Saving Club.)	T. Iredale ...	50
1 Nov., " ...	Marine Pile-boring Animals ... (Royal Zoological Society, N.S.W.)	F. A. McNeill ...	...
7 Dec., " ...	Shells ... (Naturalist Societies of N.S.W.)	W. Boardman ...	40
28 April, 1927 ...	Extinct Animals ... (Evolution Society of N.S.W.)	C. Anderson ...	100
20 June, " ...	Diamonds ... (Retail Jewellers' Association, Sydney.)	T. H. Smith ...	40
			490



In addition the following voluntary lectures, of which particulars are not available, were delivered by members of the Museum Staff:—

To the Marine Biological Section of the Royal Zoological Society of New South Wales:—

Sharks and Rays	...	...	...	...	...	G. P. Whitley.
A Talk on Bryozoa	...	...	...	...	...	A. A. Livingstone.
Crabs and Shells	...	...	...	...	...	W. Boardman.
Distribution of Palaeozoic Marine Life	...	...	...	...	...	H. O. Fletcher.

G. P. Whitley lectured to The Naturalists' Society of New South Wales on "Sharks and Rays," and W. Boardman to the Long Bay Church of England Society on "Seashore Life."

The total attendances at Museum lectures of all kinds during 1926-1927 are tabulated below:—

16	Evening Lectures	...	...	...	...	...	4,035
8	School Lectures	...	...	...	...	...	1,738
9	Deaf, Dumb and Blind Pupils	...	...	...	...	...	95
5	Boys' High School	...	...	...	...	...	2,140
5	Special Lectures in Museum	...	...	...	...	...	150
19	Extension Lectures	...	...	...	...	...	1,962
8	Unofficial Lectures	...	...	...	...	...	490
Total							10,610

## 12. FIELD WORK.

In the early part of the year Messrs. E. Le G. Troughton and A. A. Livingstone spent about two months in the Santa Cruz Group as the guests of Mr. N. S. Heffernan, District Officer. During this time they cruised among the islands and were able to secure a large and varied collection, consisting of zoological specimens, human crania, and ethnological objects. The zoological collections included over 50 rats and bats, 138 birds and reptiles, 126 fishes, over 200 species of shells, an important series of insects, and a large number of echinoderms, corals, and other marine invertebrates. The gratifying success of this expedition is a result of the hard work and enthusiasm of the two officers (who defrayed their own expenses), and the generosity and cordial assistance of our Honorary Correspondent, Mr. N. S. Heffernan. The thanks of the Board are also due to Messrs. Burns, Philp & Co., who made a substantial reduction in fares and carried all gear and collections free of charge, and to the Vanikoro Timber Company, and their manager, who provided many facilities, and whose guest Mr. Troughton was for two weeks.

Messrs. A. Musgrave and T. G. Campbell were granted leave to take part in the annual "Camp-out" of the Royal Australasian Ornithologists' Union, and spent part of October in the Williams River district, where they were successful in collecting a large series of insects and arachnids, and a number of mammals, reptiles, and amphibia.

In January, Mr. T. G. Campbell re-visited the Barrington Tops, near Dungog, and collected over 500 insects and arachnids, and a series of crustacea.

In February, Messrs. W. W. Thorpe, T. G. Campbell, and H. O. Fletcher spent a few days at Berowra Creek, where they secured a number of insects and freshwater crustacea, and searched for aboriginal burial places and skeletal remains.

By the courtesy of Mr. Douglas Hahn, Mr. W. Boardman was enabled to accompany the trawler "Gunner" on a trip which resulted in the acquisition of a number of fishes (including new species and new records), a large collection of squids and other molluscs, and many echinoderms, crustacea, sponges, corals, bryozoa, and other invertebrates.

Shorter trips included visits to Gunnamatta Bay and various beaches, to National Park, and other places in the vicinity of Sydney.

## 13. DONATIONS.

Special reference may be made to the following gifts.

We are indebted to the Hon. Sir Alfred Meeks, M.L.C., for a donation which enabled us to secure the valuable Robins collection of Polynesian and other ethnological specimens, and to Mr. M. S. Stanley, who purchased and presented a fine series of Papuan nose ornaments.

A bequest the value of which is inestimable is the late A. R. McCulloch's Card Index of Ichthyological Literature. This was the result of many years' assiduous labour, and contains over 150,000 entries.

The late Charles Hedley, for many years conchologist to the Museum, had compiled a comprehensive guide to the literature of conchology. This valuable adjunct to conchological research has been presented by Mrs. H. Georgina Hedley in memory of her husband. The Trustees are very fortunate in having come into possession of these systematic card indices to ichthyological and conchological works and papers, for, though the compilers are no longer with us, these aids to research are still fulfilling their function.



## 14. FINANCIAL.

The following financial requirements of the Museum were provided for by Parliamentary appropriation as follows:—

	£	s.	d.
Salaries ... ..	15,548	18	3
„ (Treasurer's Advance) ... ..	318	15	8
Contingencies ... ..	1,529	13	10
Statutory Endowment ... ..	1,000	0	0
Additional Endowment ... ..	1,076	6	2
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	£19,473	13	11

Other amounts of income were derived from:—

Sales of Publications ... ..	770	9	9
Magazine Advertisers ... ..	206	10	0
Donations ... ..	50	0	0
Interest on investments ... ..	28	5	0
Sundry minor items ... ..	7	16	6
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	£1,063	1	3

Expenditure for the year may be summarised as follows:—

Salaries ... ..	14,790	14	11
Superannuation ... ..	1,076	19	0
Contingencies ... ..	1,529	13	10
Stores and Supplies ... ..	330	15	3
Purchase of Specimens ... ..	125	16	10
Purchase of Publications ... ..	215	12	11
Magazine Publication and Advertising ... ..	685	13	9
Postcards—printing, advertising, &c. ... ..	514	16	8
“Records,” publication ... ..	292	9	2
Lectures ... ..	148	8	0
Purchase of equipment, tools, &c. ... ..	272	9	6
Repairs, maintenance, general expenses, &c. ... ..	679	9	5
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	£20,662	19	3

The Statements of Receipts and Expenditure, and Revenue for the year, duly audited, are set out in Appendices G. and H.

## 15. CURATORIAL.

*Mammals* (E. Le G. Troughton in charge).—The facilities afforded private collectors, coupled with the field work of the staff and donations by the general public, resulted in the registration of a fine series of mammals, which included specimens of great interest both for display and study.

Some of the more outstanding donations included the following:—An interesting series of marsupials, including a Tree Kangaroo (*Dendrolagus matschiei*), also a Giant Ant-eater, Paca, Sloth and Black Ape, from the Taronga Park Zoological Trust; the head of an American Bison from Calgary, Canada, from the Australian Board of Control for International Cricket; a series of 50 bats and several rodents from Ysabel, Solomon Islands, collected by Mr. N. S. Heffernan; a small series of mammals from Queensland, from Mr. F. Ferrier Hamilton, and Mr. H. C. Macartney; a very interesting rodent and series of fat-tailed pouched mice (*Sminthopsis*), Longreach, Queensland, from Mr. F. L. Berney; a collection of immature marsupials, including *Phascogale*, from (the late) J. J. Fletcher; a series of bats, representing two long-eared species, from Mr. L. Macqueen, South Queensland, and two species of bats from the Tumut District, from Miss E. Fraser; a water-rat and rat-kangaroo from Mr. A. S. Le Souef; and additional specimens of an interesting bandicoot from Dr. E. C. Chisholm.

By exchange with the British Museum of Natural History we received two specimens of Rock Wallabies, representing species recently described from Northern Queensland and new to the collection. Purchases included four native cats from the Beaumaris Zoo, Hobart, and a bat, water-rat and series of marsupials from Mr. T. V. Sherrin.

During the year, coincident with the supplying of information regarding acquisitions, old material has been renamed where necessary and identifications checked, notably in regard to the collection of pouched mice, resulting in the discovery of a new genus and several species, which form the subject of a paper now ready for press. In response to requests assistance or data has been supplied to the Chief Secretary's Department regarding the destruction and farming of opossums, to the Department of Agriculture regarding Fruit-bats, and to the Police regarding the Game Act.

The taxidermists treated 506 mammals, of which 119 were new, and after preservation were skinned and either treated or filled-out, and 387 were cleaned and restored. Important restorations were:—A German war service dog for the War Museum; two bisons' heads, one for the Museum gallery, and the other for transfer to the Technological Museum, and the head of a Red Deer for the gallery.

The Australian mammal gallery has been completely overhauled, the case interiors being painted, and their wooden fittings replaced with glass shelving, while the specimens have been restored and suitably rearranged. Similar treatment of the foreign section is now in hand. Periodical disinfection of the stored and exhibition collections has been carried out.

The taxidermists have also given instructions to several collectors regarding the skinning and preservation of mammals.



*Skeletons* (E. Le G. Troughton in charge).—Outstanding donations included an interesting series of marsupial crania from (the late) J. J. Fletcher; a skeleton of the Giant Ant-eater from the Taronga Park Trust; and jaws and otoliths of fish from Mr. C. L. Bidens of Capetown, South Africa.

The most important acquisitions were a fine specimen of Risso's Grampus which was washed up at Manly, providing the first record of the occurrence of the species in Australian waters, secured by purchase, and a Bushman's skull received in exchange from Dr. R. Broom of South Africa. A fine cast of the Rhodesian human skull was purchased.

Twice during the current year facilities have been afforded Professor Burkitt for the examination of the collection of human crania, and he is at present engaged, with several students, in studying and photographing a large series of skulls.

The preparators of casts and skeletons, besides casting and subsequently skeletonising a small whale (Grampus), cleaned and prepared 109 skulls for storage, besides completing the cleaning of a large elephant, cleaning and restoring a small elephant and a wolverine skeleton.

*Reptiles and Amphibians* (J. R. Kinghorn in charge).—During the year 425 specimens have been added to the collection. These included a valuable series from South-west Australia, presented by Professor L. Harrison; a collection from Barrington Tops, New South Wales, secured by Messrs. A. Musgrave and T. G. Campbell; and from the Santa Cruz Group, collected by Messrs. E. Le G. Troughton and A. A. Livingstone.

A number of exhibits were removed from the exhibition gallery and prepared for distribution to schools and country museums. Eight gallery groups were renovated, and a number of casts were restored.

The spirit collections were checked by comparison with the card catalogue, and several re-arrangements made.

*Birds and Eggs* (J. R. Kinghorn in charge).—The collection was largely increased during the year, a total of 3,981 specimens being added. The great increase in comparison with previous years is due to the acquisition of the collection formed by the late Robert Grant, containing 3,777 Australian and foreign birds, many of which are rare or otherwise interesting. This exceedingly valuable gift was secured chiefly by the efforts of Mr. Kinghorn, who interviewed a number of citizens from whom he received the whole of the funds necessary for the purchase of the collection.

The taxidermists have prepared or renovated 145 new skins and 148 old ones, and mounted 151 skins for exhibition. Eight mounted groups and sixteen mounted specimens were cleaned and renovated, and two new groups, the Ptarmigan and Albatross, were added to the gallery. Miss E. A. King has been employed colouring group exhibits and making sketches from life for use in mounting specimens for exhibition.

A Carrier Pigeon was prepared for the War Museum, and a Wedge-tailed Eagle for the Albury Museum; two collections of birds were removed from the gallery, overhauled, and transferred to the Teachers' Training College. Exhibits of insectivorous birds were displayed at Harrington's Ltd., George-street, Sydney, and at the annual exhibition organized by the New South Wales Naturalists' Society. From time to time specimens of mounted birds are placed in the Lecture Hall to assist art students. The Annual Congress of the Australian Ornithologists' Union was held in the Lecture Hall during October, and the collection was made available to members while the Congress was being held.

The renovation and rearrangement of the exhibited series has now been completed, and the mounted and duplicate skin collection overhauled, cleaned and disinfected. Storage space is now very much overcrowded. Two new cabinets were generously presented by Mr. O. C. Beale, Trustee, but additional cabinets are urgently required.

Many shipments of birds were examined and reported on for the Department of Customs; the Chief Secretary, the Department of Agriculture, and many firms have sought information regarding bird pests.

*Fishes* (G. P. Whitley in charge).—During the year a large number of specimens have been registered. Noteworthy additions include collections from the Santa Cruz Group, obtained by Messrs. Troughton and Livingstone; from Michaelmas Cay, North Queensland, collected by Messrs. Iredale and Whitley; and a fine series of Malayan fishes presented by Mr. D. G. Stead. Officers of H.M.A.S. "Moresby" and "Geranium" contributed collections of fishes from Queensland and Northern Territory. From Mr. M. Ward we obtained some Tasmanian specimens, and Mrs. Miller, Darnley Island, presented some fishes from that locality. A number of trawled fishes from southern New South Wales were received from Messrs. A. Ward and W. Boardman. The Manly Life-Saving Club presented a large saw-fish; and from the Fisheries Branch we received a number of interesting Scombroids. The "Endeavour" Flat-fishes, reported upon by Mr. J. R. Norman, British Museum, have now been received back, and Dr. Johs. Schmidt, Copenhagen, has returned a number of elvers from Long Bay, near Sydney, and lampreys from Prospect, New South Wales. By exchange we received a number of Jewfishes from the South African Museum. The late Surgeon Lieutenant-Commander W. E. J. Paradise, R.A.N., presented a number of micro-slides and X-ray photographs of fishes, and has otherwise added materially to the collections.

A cast of a male Ghost Shark (*Chimaera ogilbyi*) has been placed on exhibition, and the cast of the Chinaman Fish has been re-coloured.

Information on fishes has been given to many institutions and enquirers, and a special circular on the Leafy Sea Dragon (*Phyllopteryx foliatus*) was prepared by Mr. Whitley in response to the many enquiries regarding this fish. Mr. Whitley also prepared a report on fishes which eat insect larvæ, and identified a number of the species. Other identifications have been made for the Fisheries Branch.

A collection of Scombridae were sent to Dr. K. Kishinouye for study, and a series of fish heads was forwarded to Dr. H. L. Kesteven for craniological examination.

A collection of fishes was exhibited at the Nature Exhibition of the New South Wales Naturalists' Society, and a small series was given to the Amateur Fishermen's Association.

Considerable progress has been made by Mr. Whitley in preparing for publication the late A. R. McCulloch's "Check-list of the Fishes of Australia."



*Insects and Arachnids* (A. Musgrave in charge, T. G. Campbell, assistant).—During the year large collections were received, the most important being from the following donors:—Mr. N. S. Heffernan, bat parasites from the Solomon Islands, and insects and spiders from the Santa Cruz Group; Mrs. W. Miller, insects from Darnley Island; Mr. G. Goldfinch, leaf-hoppers from Queensland and New South Wales; Mr. C. T. McNamara, Fijian insects; Mr. A. Musgrave, insects and spiders from Robert's Plateau, Macpherson Range; Mr. W. D. Campbell, insects from Almaden, Queensland; Mr. H. J. Carter, insects from W. Australia, and Barrington Tops, New South Wales; Mr. C. E. Hart, insects from Solomon Islands; the late Thomas Steel, Brazilian insects; the South Australian Museum, beetles.

The Museum has lost a valued friend in the late Dr. E. W. Ferguson, who in the past materially enriched the collections with valuable specimens and types, and was ever ready to place his entomological knowledge at our disposal. Before his death Dr. Ferguson presented a type series of Australian Syrphidæ.

During the year Mr. Musgrave and Mr. Campbell collected at the Williams River and at National Park, and amassed large collections, while Mr. Troughton and Mr. Livingstone collected a valuable series of insects and arachnids in the Santa Cruz Group, which will later be dealt with by specialists.

The revision of the Australian collections of Orthoptera and Diptera has been undertaken during the year, but most of the work of the Department has been the naming, registering, and labelling of the collections received, in addition to the ordinary routine work.

Research work has been done on poisonous trap-door spiders as the result of the death of a child at Thornleigh, and a paper on the subject is in the press. Other research work has been done on leaf-hoppers and graphosomatid bugs.

*Conchology* (T. Iredale in charge, Miss J. Allan, assistant).—The accessions reached a large total. Perhaps the most important addition during recent years is the collection made by Messrs. Troughton and Livingstone at Vanikoro, Santa Cruz Group, a locality made classical by the researches of Quoy and Gaimard nearly a hundred years ago, since when no collections have been recorded from there. A preliminary report on this valuable collection is now in the press.

Mr. A. F. Basset Hull presented a large series of extra-Australian shells from the collection of Colonel Beddome, consisting of species named by various European and American authorities, and forwarded to that well known Australian conchologist. From Mr. Hull we also received a collection of marine shells from Macquarie Harbour, West Coast of Tasmania, a locality from which hitherto only two species have been recorded, and which was not previously represented in the collection.

Our regular correspondents, Messrs. W. D. Campbell, Chillagoe, Queensland, G. McAndrew, Shellharbour, New South Wales, and the Rev. P. Hubbard, Innisfail, North Queensland, continued their donations, many of which are of great interest. The Chillagoe Caves material presented by Mr. Campbell is of special value, as a new faunula has been revealed; a description of these specimens is now in the press.

The collection formed by Messrs. Iredale and Whitley at Michaelmas Cay, North Queensland, has now been analysed and nearly 500 species determined. These comprise a number of new species and several well known New Caledonian shells are now for the first time recognised from Australian waters. Willis Island is, therefore, suggested as an ideal collecting ground, where important data regarding the distribution of the Queensland fauna may be obtained.

Inquiries of economic importance have been attended to, the most important relating to the ravages of "Shipworms" (*Teredinidæ*), the species of which were investigated and determined on behalf of the Sydney Harbour Trust.

Miss Allan has made many drawings of molluscs to illustrate papers published and in preparation, and has also, when called upon, prepared drawings for officers of other Departments.

*Marine Invertebrates* (F. A. McNeill in charge, A. A. Livingstone and W. Boardman, assistants).—Large numbers of accessions continue to absorb a considerable amount of time in routine work; altogether 1,592 registrations have been made during the past twelve months.

Collections were made in the Santa Cruz Group by Messrs. Troughton and Livingstone. Through the late C. Hedley, Scientific Director of the Barrier Reef Investigation Committee, the Trustees acquired a large collection of Barrier Reef corals. On the recent deaths of J. J. Fletcher, Trustee, and Thomas Steel, F.L.S., both of whom had been liberal donors during their later years, the balance of the collections made by them became the property of the Trustees.

Mr. Melbourne Ward, Honorary Correspondent, an enthusiastic collector, is now travelling in the mid-Pacific and devoting attention on our behalf to the marine invertebrates of that region.

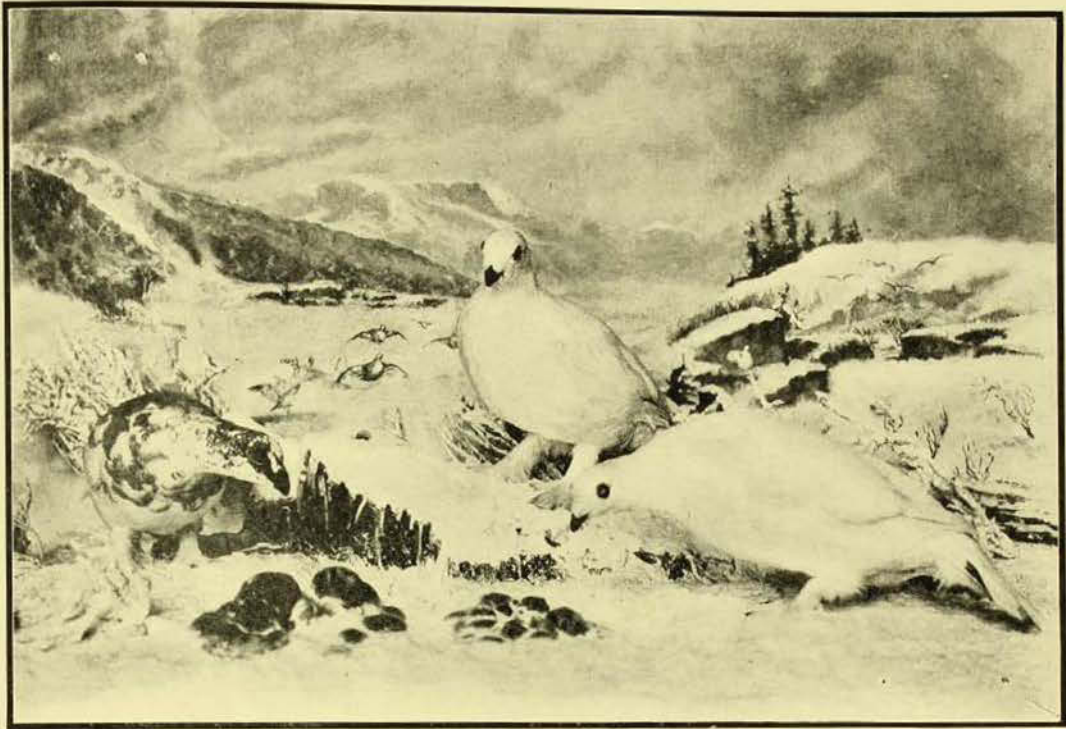
Late in the year the Tunicata collected by the Australasian Antarctic Expedition under the leadership of Sir Douglas Mawson were received back from Liverpool University, whither they had been sent for report by the late Sir William Herdman. The whole of the collection has been overhauled and reconditioned for despatch to another specialist on the group.

Throughout the year constant attention has been necessary to maintain the systematic arrangement and good condition of the large collections of lower invertebrates, and research work has proceeded as time has permitted.

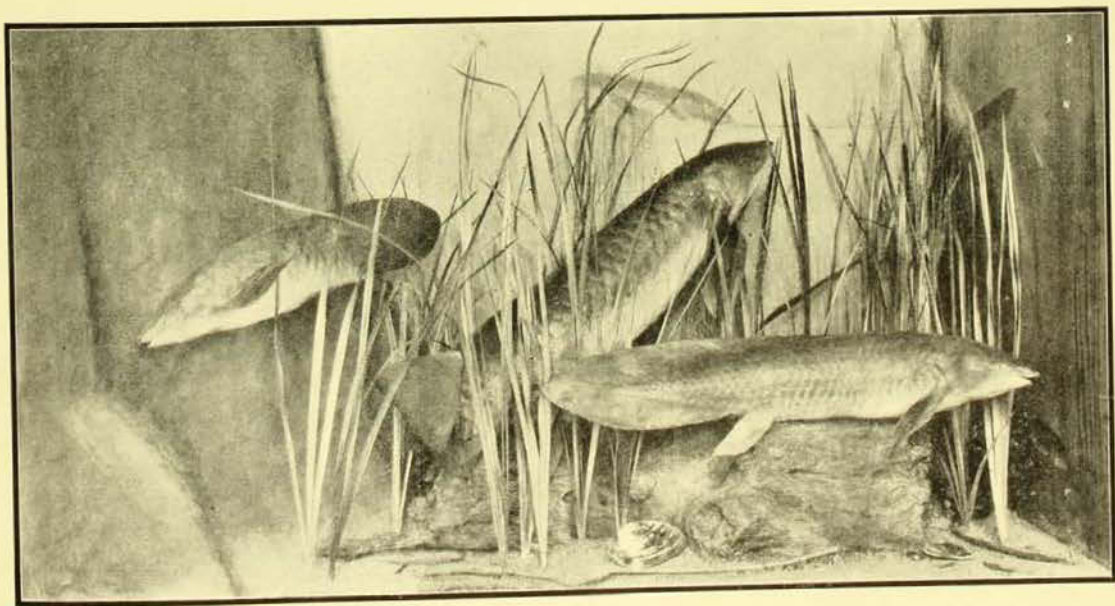
Important work has been carried out in investigation of the attacks by boring crustacea on wharf piles in Port Jackson. A considerable amount of information on the work of these pests has been accumulated, and in due course a report will be prepared for the Harbour Trust Commissioners.

*Ethnology* (W. W. Thorpe in charge; S. G. Gray, Assistant). The principal donations during the year were:—the Tongan collection of the late Rev. E. E. Crosby; a series of Patagonian Spear-heads, by Miss Ida Dawson; flaked stone implements from Shellharbour, by Mr. W. W. Thorpe; flaked implements from Lake Macquarie, by the Rev. A. J. Barrett; a large series of aboriginal flake work from the coastal beaches north of Tuggerah, by Messrs. M. S. Stanley and W. W. Thorpe. The Captain Robins collection,





The Ptarmigan Group, showing the change from autumn to winter plumage.



The Queensland Lung Fish Group.



containing several rare Polynesian specimens, was purchased and presented by the Hon. Sir Alfred Meeks, M.L.C. Mr. George McAndrew, Honorary Correspondent, presented a series of stone axes from Illawarra Lake District, and a fine collection of Papuan nose ornaments was received from Mr. M. S. Stanley. Mrs. Steel presented a miscellaneous series of stone implements, mainly Fijian and Australian, which had been collected by her late husband, Thomas Steel.

By purchase a part of the collection of the late David Lindsay was acquired. Mr. Thorpe, during a visit to Morna Point district, collected a large series of flaked implements, including some new forms, and our Santa Cruz specimens were largely augmented by the collections made in the early part of the year by Messrs. Troughton and Livingstone.

By exchange we acquired samples of Tasmanian flaked implements, a large decorated bark bucket from Bathurst Island, Northern Territory, a series of domestic utensils of the historical period from Finland, and replicas of Neolithic stone implements from North-west Europe.

The condition of the collections has been well maintained during the year, and much time was spent in helping outside bodies and institutions. Loans were made to the exhibition of the Naturalists' Society of New South Wales, Kindergarten Teachers, Girls' Week Committees, and others. A series of native weapons was transferred to the Scouts' Hall, Granville.

A new and enlarged edition of "List of New South Wales Aboriginal Place Names and their Meanings" was prepared by Mr. Thorpe, and issued.

*Numismatics* (W. W. Thorpe in charge; S. G. Gray, assistant.) By donation we acquired a series of Indian and other coins from Colonel I. Elgee; a gold "half dobra" of John V, Portugal, from Miss Lucy Comyn; and a collection of British coins from Messrs. J. Jackson and R. Harrison.

By exchange the collection was increased by over forty pieces.

One of the two show cases in the main hall formerly allotted to coins has been taken over for the display of publications; the series shown there has been regularly changed.

Requests for identification of coins are still increasing in number, and several large collections have been determined.

*Palaeontology* (C. Anderson in charge, assisted by H. O. Fletcher and W. W. Thorpe.) The principal additions consisted of a series of Permo-carboniferous fossils from Maria Island, Tasmania, presented by Mr. W. S. Dun, Honorary Palaeontologist; a fine collection, containing several new genera and species, obtained by Mr. T. Hodge Smith from the Lower Marine of Harper's Hill, Maitland district; a quantity of shale containing plant and insect remains, from the Permian of Warner's Bay, Newcastle district, presented by the Rev. A. J. Barrett and Mr. W. W. Thorpe. Mr. S. Melvaine presented a small collection of Permo-carboniferous shells and plants from the South Coast District, New South Wales. Some fine examples of belemnites from the Jurassic of Whitby, England, were received from Mr. J. R. Kinghorn. A well-preserved example of the Triassic fish, *Cleithrolepis granulatus*, from the brick pits, near Hornsby, was presented by Mr. Bullock, and some Tertiary fish remains from the diatomaceous earth deposits at Bugaldi, near Coonabarabran, were contributed by Mr. O. C. Beale, Trustee.

By exchange with the Queensland Museum we received a number of skulls, maxillae, and mandibles of fossil marsupials of the family Macropodidae from the Darling Downs, Queensland; these included examples of a number of species named by the C. W. de Vis.

The collection of fossil marsupials formed by the Department of Mines has been, for the most part, transferred to this Museum. This contains a fine series of fossils, chiefly from the Wellington Caves and from Myall Creek, Bingara. This large collection has been overhauled, sorted, and is now ready for registration.

Mr. H. O. Fletcher has proceeded with the naming and registration of the very large Varney Parkes collection of fossils recently purchased, in which work he has been assisted by Mr. W. S. Dun. Steady progress has been made in the reorganisation and cataloguing of the invertebrates, and this work is now well advanced. The exhibited series of vertebrates has been card catalogued and many new labels printed. The naming, re-arranging and cataloguing of the reference collection of Australian vertebrate fossils has been proceeded with as time permitted.

*Mineralogy* (T. Hodge Smith in charge; C. M. G. Friend, assistant.) The accessions during the year number 200. Of these, orangite was not previously represented in the collection. Of donations, the most notable are some choice specimens of barite, fluorite, dolomite, and calcite from the Cumberland and other mines, England, presented by Mr. Arthur Combe, of the Uganda Geological Survey. A small collection of Broken Hill minerals was obtained by purchase.

The gold and gem case has been entirely altered and re-arranged. All gems are now mounted on glass stands; the wooden fittings have been replaced by glass shelving supported on nickel rods, the whole exhibit being greatly improved.

Considerable improvement in storage facilities has been effected during the year, but it has been found impossible to make adequate provision for future expansion.

*Petrology* (T. Hodge Smith in charge; C. M. G. Friend, assistant.) Sixty-three specimens were added during the year. These include a very fine example of a metallic meteorite, weighing 207½ lbs., from Weckaroo Station, Manna Hills, South Australia, which was acquired by purchase. By the courtesy of the Railway Commissioners, this is being cut at the Eveleigh Railway Workshops, and it will then be analysed and described. A portion, weighing 25.6 grams, of the "Kingoonya" aerolite, South Australia, was presented by Mr. Cook, and a portion of the "Mount Magnet" siderite from the Murchison Gold Field, Western Australia, was acquired by exchange. Two foreign meteorites have been added to the collection.

No proper arrangements have yet been made for the storage of rock collections, and in consequence many rocks are packed away in bulk.



The negatives taken by Captain Frank Hurley during his expeditions to Papua in 1920-21 and 1922-23 were purchased by the Trustees, and constitute a very valuable acquisition. This splendid collection includes about 1,100 negatives, embracing a large number of native studies, views of ceremonial gatherings, pictures of native industries and architecture, landscape views, as well as an interesting series illustrating the pearling industry, coral reefs, and marine life.

#### 17. SCIENTIFIC PAPERS AND ARTICLES PUBLISHED OR PREPARED DURING THE YEAR.

- "Fixation of the Habitat, and Extended Description, of *Pteropus tuberculatus* Peters." E. Le G. Troughton, *Rec. Aust. Mus.*, XV, 5, 1927.
- "Further Notes on Marsupial Birth." E. Le G. Troughton, *Aust. Mus. Magazine*, III, 2, 1927.
- "Cruising in the Santa Cruz." E. Le G. Troughton and A. A. Livingstone, *Aust. Mus. Magazine*, III, 2, 1927.
- "The Isles of Santa Cruz." E. Le G. Troughton and A. A. Livingstone, *Aust. Mus. Magazine*, III, 3, 1927.
- "Legless Lizards." J. R. Kinghorn, *Aust. Mus. Magazine*, II, 12, 1926.
- "Notes on Some Western Australian Frogs, with Description of New Species." Professor L. Harrison, *Rec. Aust. Mus.*, XV, 4, 1927.
- "Winter Whiteness." J. R. Kinghorn, *Aust. Mus. Magazine*, III, 1, 1927.
- "The Wandering Albatross." J. R. Kinghorn, *Aust. Mus. Magazine*, III, 2, 1927.
- "Bibliography (of A. R. McCulloch)." G. P. Whitley, *Rec. Aust. Mus.*, XV, 2, 1926.
- "Studies in Ichthyology, No. 1." G. P. Whitley, *Rec. Aust. Mus.*, XV, 5, 1927.
- "Northern Territory Fishes." G. P. Whitley and Dr. W. E. J. Partridge, *Mem. Q'land Mus.*, IX, 1, 1927.
- "The Birth of an Island." G. P. Whitley and Tom Iredale, *Aust. Mus. Magazine*, II, 12, 1926.
- "Sharks." G. P. Whitley, *Aust. Mus. Magazine*, III, 1, 1927.
- "The Sawfish." G. P. Whitley, *Aust. Mus. Magazine*, III, 1, 1927.
- "The Queensland Lung Fish." G. P. Whitley, *Aust. Mus. Magazine*, III, 2, 1927.
- "Fishes from Michaelmas Cay, North Queensland." G. P. Whitley (in the press).
- "Studies in Ichthyology, No. 2." G. P. Whitley (in the press).
- "Additions to the Check-list of the Fishes of New South Wales." G. P. Whitley (in the press).
- "Contributions to the Cranial Osteology of the Fishes, Nos. III, IV, V." Dr. H. L. Kesteven, *Rec. Aust. Mus.*, XV, 3, 1926.
- "Tambourine Mountain, Queensland." A. Musgrave, *Aust. Mus. Magazine*, II, 11, 1926.
- "A Chapter from the Life Story of a Cicada." A. Musgrave, *Ibid.*, II, 12, 1926.
- "With the R.A.O.U. to the Barrington Tops District." A. Musgrave and T. G. Campbell, *Ibid.*, III, 1, 1927.
- "Some New Australian Nycteribiidae (*Diptera Pupipara*)." A. Musgrave, *Rec. Aust. Mus.*, XV, 4, 1927.
- "Some Poisonous Australian Spiders." A. Musgrave (in the press).
- "Contributions to the Knowledge of Australian Hemiptera, No. 1." A. Musgrave (in the press).
- "Some Familiar Australian Butterflies." T. G. Campbell, *Aust. Mus. Magazine*, II, 11, 1926.
- "Insect Foods of the Aborigines." T. G. Campbell, *Aust. Mus. Magazine*, II, 12, 1926.
- "On a Collection of Papuan Dragonflies (Odonata) made by the late Allan R. McCulloch in 1922-3, with descriptions of New Species." Dr. R. J. Tillyard, F.R.S., *Rec. Aust. Mus.*, XV, 2, 1926.
- "New Australian Membracidae (Homoptera)." Dr. W. D. Funkhouser, *Rec. Aust. Mus.*, XV, 5, 1927.
- "The Cameo Shell." T. Iredale, *Aust. Mus. Magazine*, II, 12, 1926.
- "The Resurrected Snail." T. Iredale, *Aust. Mus. Magazine*, II, 2, 1927.
- "A Review of Australian Helmet Shells." T. Iredale, *Rec. Aust. Mus.*, XV, 5, 1927.
- "Caloundra Shells." T. Iredale, *Aust. Zoologist*, II, 6, 1927.
- "A Monograph of Australian Loricates, Parts VIII and IX." T. Iredale (with Mr. A. F. Basset Hull), *Aust. Zoologist*, IV, 5, (1926), 6, (1927).
- "The Carrier Shell." Miss J. Allan, *Aust. Mus. Magazine*, III, 2, 1927.
- "A Supplementary List of the Echinoderms collected by Surgeon Lieutenant-Commander W. E. J. Partridge in Queensland and North Australia." F. A. McNeill and A. A. Livingstone, *Rec. Aust. Mus.*, XV, 2, 1926.
- "The Decapoda of North-west Islet, Capricorn Group." F. A. McNeill, *Aust. Zoologist*, IV, 5, 1926.
- "Studies in Australian Bryozoa, No. 4." A. A. Livingstone, *Rec. Aust. Mus.*, XV, 2, 1926.
- "The Largest Crab." F. A. McNeill, *Aust. Mus. Magazine*, III, 1, 1927.
- "More Life of the Tidal Flats." F. A. McNeill and A. A. Livingstone, *Aust. Mus. Magazine*, II, 12, 1926.
- "Discolouration of Harbour Waters—a Reason Why." F. A. McNeill and A. A. Livingstone, *Aust. Mus. Magazine*, II, 11, 1926.
- "The Cause of Phosphorescence in Sea Water." A. A. Livingstone, *Aust. Mus. Magazine*, II, 12, 1926.
- "Brachyuran Crabs from Australia and New Guinea." Dr. Mary J. Rathbun, *Rec. Aust. Mus.*, XV, 2, 1926.
- "Notes on a Collection of Echinoderms from the Australian Museum." Dr. H. L. Clark, *Rec. Aust. Mus.*, XV, 2, 1926.
- "An Account of Australian Atyidae." Dr. Jean Roux, *Rec. Aust. Mus.*, XV, 3, 1926.
- "Aboriginal Message Sticks." W. W. Thorpe, *Aust. Mus. Magazine*, II, 12, 1926.
- "Pottery." W. W. Thorpe, *Aust. Mus. Magazine*, III, 1, 1927.
- "Heliolitidae from the Upper Silurian, Yass, New South Wales, based on Notes by the late R. Etheridge junr." W. S. Dun, *Rec. Aust. Mus.*, XV, 4, 1927.
- "Organic Evolution." C. Anderson, *Aust. Mus. Magazine*, III, 2, 1927.
- "Obituary of C. Hedley." C. Anderson, *Nature*, LXVIII, Dec. 4, 1926.
- "Incisor Teeth of the Macropodinae." C. Anderson, to be published in the *Australian Zoologist*.
- "Mineralogical Notes, No. 3." T. Hodge Smith, *Rec. Aust. Mus.*, XV, 5, 1927.



## List of Specimens acquired during the year ending 30th June, 1927 :—

Department.	Donation.	Exchange.	Purchase.	Prepared.	Collection.	Total.
<b>Vertebrata—</b>						
Mammalia.....	157	3	21	...	78	259
Aves.....	3,868	...	23	...	90	3,981
Reptilia.....	263	...	...	...	162	425
Pisces.....	1,013	1	...	...	624	1,638
Skeletons.....	21	3	1	...	1	26
<b>Invertebrata—</b>						
Mollusca.....	5,756	81	4	...	6,524	12,365
Insects and Arachnida.....	3,321	...	865	...	1,339	5,525
Crustacea.....	539	79	...	...	75	693
Echinodermata.....	221	...	...	...	160	381
Polyzoa.....	189	...	...	...	6	195
Vermes.....	69	...	2	...	34	105
Hydroids.....	...	...	...	...	1	1
Sponges and Foraminifera.....	10	...	...	...	5	15
Other Invertebrata.....	44	...	...	...	158	202
Fossils.....	190	...	558	...	86	834
Minerals.....	70	1	120	...	9	200
Rocks.....	37	2	7	...	17	63
<b>Ethnological, &amp;c.—</b>						
Ethnological.....	1,041	123	46	...	86	1,296
Historical.....	2	...	9	...	...	11
Numismatical.....	55	39	11	...	...	105
<b>Miscellaneous—</b>						
Micro Sections.....	...	...	...	19	...	19
Casts.....	...	29	1	9	...	39
Moulds.....	...	...	...	10	...	10
Photo. Negatives.....	8	...	1,120	80	...	1,208
Lantern Slides.....	...	...	...	327	...	327
Photographs.....	15	...	...	...	...	15
<b>Vertebrata.....</b>	<b>5,322</b>	<b>7</b>	<b>45</b>	<b>...</b>	<b>955</b>	<b>6,329</b>
<b>Invertebrata.....</b>	<b>10,149</b>	<b>160</b>	<b>871</b>	<b>...</b>	<b>8,302</b>	<b>19,482</b>
<b>Fossils and Minerals.....</b>	<b>297</b>	<b>3</b>	<b>685</b>	<b>...</b>	<b>112</b>	<b>1,097</b>
<b>Ethnological.....</b>	<b>1,098</b>	<b>162</b>	<b>66</b>	<b>...</b>	<b>86</b>	<b>1,412</b>
<b>Miscellaneous.....</b>	<b>23</b>	<b>29</b>	<b>1,121</b>	<b>445</b>	<b>...</b>	<b>1,618</b>
	<b>16,889</b>	<b>361</b>	<b>2,788</b>	<b>445</b>	<b>9,455</b>	<b>29,938</b>

The Common Seal of the Museum was hereunto affixed by order of the Board this twenty-seventh day of February, 1928.

(L.S.) CHARLES ROSENTHAL, President.  
W. T. WELLS, Secretary.



## APPENDIX A

Trustees of the Australian Museum at 30th June, 1927.

17 Meetings of the Trustees. { 11 Ordinary Meetings.  
6 Special Meetings.

	Ordinary Meetings.	Special Meetings.
Crown Trustee		
Mr. James McKern .....	10	3
Statutory—		
His Honor the Chief Justice .....	...	...
The Hon. the Colonial Secretary .....	...	...
The Hon. the Attorney-General .....	...	...
The Hon. the Colonial Treasurer .....	...	...
The Auditor-General .....	6	2
*The President of the Medical Board (Dr. T. Storie Dixson) .....	5	2
Appointed—		
The Hon. the President of the Legislative Council .....	...	...
The Crown Solicitor .....	...	...
The Surveyor-General and Chief Surveyor (Mr. H. B. Mathews, B.A.) .....	8	2
The Hon. the Secretary for Public Works and Minister for Railways .....	1	1
The Hon. the Minister for Education .....	3	2
Elective Trustees.		
Dr. J. R. M. Robertson .....	5	2
†Mr. E. Wunderlich, F.R.A.S. ....	...	...
Dr. G. H. Abbott .....	6	2
‡Sir William Vickers, C.B.E. ....	...	...
Sir Charles Rosenthal, K.C.B., C.M.G., D.S.O., V.D. ....	10	4
Professor L. Harrison, B.Sc., B.A. ....	7	3
§Mr. E. C. Andrews, B.A., F.G.S. ....	4	1
Mr. Octavius C. Beale, F.R.H.S. ....	6	2
¶Mr. R. H. Cambage, C.B.E., F.L.S. ....	7	5
Mr. G. M. Blair .....	9	5
**Dr. C. Gordon MacLeod, M.A., Ch.M. ....	6	...
††Dr. G. A. Waterhouse, F.E.S. ....	8	4
‡‡Mr. F. S. Mance .....	7	4
§§The Hon. F. E. Wall, M.D., M.L.C. ....	5	4

\* Absent abroad to December, 1926.

† Resigned as President and Trustee—6th August, 1926.

‡ Resigned as Trustee—6th August, 1926.

§ Leave of absence granted.

|| Leave of absence granted twelve months—From 6th May.

¶ Leave of absence granted six months—From September to February.

\*\* Leave of absence granted—July to November.

†† Elected 2nd July, 1926, in place of Mr. J. J. Fletcher (deceased).

‡‡ Elected 1st October, 1926, in place of Mr. E. Wunderlich (resigned).

§§ Elected 1st October, 1926, in place of Sir Wm. Vickers (resigned).

## APPENDIX B

Committees of the Australian Museum at 30th June, 1927.

House Committee.	11 Meetings.
Mr. J. McKern (Chairman) .....	10
Mr. F. A. Coghlan .....	5
Dr. J. R. M. Robertson .....	8
Mr. E. C. Andrews .....	2
Sir Charles Rosenthal .....	5
Mr. F. S. Mance (appointed 3rd December, 1926) .....	5
Dr. G. A. Waterhouse (appointed 3rd December, 1926) .....	5

Finance and Publicity Committee,	10 Meetings.
Mr. F. A. Coghlan (Chairman 1926) .....	5
Mr. J. McKern .....	8
Mr. O. C. Beale .....	2
Mr. R. H. Cambage (Chairman 1927) .....	6
Sir Charles Rosenthal .....	3
Hon. Dr. F. E. Wall (appointed 3rd December, 1926) .....	1

Scientific and Publication Committee.	10 Meetings.
Professor L. Harrison (Chairman) .....	7
Dr. G. H. Abbott .....	6
Sir Charles Rosenthal .....	2
Dr. G. A. Waterhouse .....	9
Dr. G. Gordon MacLeod (appointed 3rd December, 1926) .....	6

Special Committee. (Appointed to consider Arbitration Claims.)	5 Meetings.
Sir Charles Rosenthal .....	2
Professor L. Harrison .....	2
Mr. R. H. Cambage .....	2
Hon. Dr. F. E. Wall .....	1
Mr. G. M. Blair .....	3
Dr. G. A. Waterhouse .....	3



## APPENDIX C.

Staff of the Australian Museum at 30th June, 1927.

Name of Officer.	Position.	Date of first appointment in the Museum.	Date of appointment to present position.
Anderson, C., M.A., D.Sc.	Director	22 July, 1901	14 Feb., 1921.
Wells, W. T., A.I.A.V.	Secretary	6 June, 1924	6 June, 1924.
Trimble, J. A.	Clerk	1 July, 1909	1 Oct., 1916.
Rolfe, J. S.	Junior Clerk	10 Jan., 1927	10 Jan., 1927.
Johnstone, Miss G. E.	Stenographer	1 Aug., 1924	1 Aug., 1924.
Thorpe, W. W.	Ethnologist	9 Oct., 1899	1 July, 1906.
Kinghorn, J. R.*	Zoologist in charge of Birds, Reptiles, and Amphibia	1 Sept., 1907	4 Feb., 1921.
Troughton, E. Le G.	Zoologist in charge of Mammals and Skeletons	13 Jan., 1908	4 Feb., 1921.
Musgrave, A.	Entomologist	7 Feb., 1910	1 June, 1920.
McNeill, F. A.	Zoologist in charge of Lower Invertebrates	18 May, 1914	3 Feb., 1922.
Smith, T. H.	Mineralogist and Petrologist	18 July, 1921	3 Mar., 1922.
Iredale, T.	Conchologist	1 April, 1924	6 Feb., 1925.
Whitley, G. P.	Ichthyologist	18 April, 1922	2 Oct., 1925.
Allan, Miss C. M. J.	Assistant in Conchology	5 Feb., 1917	7 Dec., 1923.
Livingstone, A. A.	Cadet	24 May, 1920	24 May, 1920.
Campbell, T. G.	Cadet	13 Dec., 1920	13 Dec., 1920.
Fletcher, H. O.*	General Assistant	6 Aug., 1918	16 May, 1921.
Boardman, W.	Cadet	18 April, 1922	18 April, 1922.
Friend, C. M. G.	Cadet	1 May, 1924	1 May, 1924.
Gray, S. G.	Cadet (on probation)	11 April, 1927	11 April, 1927.
Rainbow, W. A.	Librarian	13 July, 1902	1 Oct., 1916.
McCarthy, F. D.	Assistant Librarian	29 Mar., 1920	29 Mar., 1920.
Henson, T. A.	Chief Mechanic	1 May, 1902	7 Feb., 1925.
Jackson, H.	Assistant Mechanic	9 June, 1910	6 Oct., 1920.
Clutton, G. C.	Preparator (Articulator)	25 April, 1904	1 May, 1913.
Kingsley, J.	Preparator (Assistant Articulator)	21 July, 1913	21 July, 1913.
Grant, H. S.	Preparator (Taxidermist)	5 Oct., 1909	2 Mar., 1918.
Wright, J. H.	Preparator (Assistant Taxidermist)	13 May, 1908	5 Nov., 1917.
Barnes, Wm.*	Preparator (Assistant Taxidermist)	11 Feb., 1907	1 June, 1922.
Woodhead, J.	Mechanic (Printer)	27 Sept., 1897	27 Sept., 1897.
Murphy, T. A.	Chief Attendant	1 May, 1911	3 Dec., 1926.
Watson, J.	Senior Attendant	8 May, 1914	1 July, 1922.
Mackay, A.	Attendant	13 Mar., 1915	1 July, 1922.
Hill, E. T.	Attendant	8 Oct., 1917	8 Oct., 1917.
Massey, D.	Attendant	8 Dec., 1917	8 Dec., 1917.
Welsh, A. B.	Attendant	4 Nov., 1918	4 Nov., 1918.
Morris, E. G.	Attendant	10 Oct., 1921	10 Oct., 1921.
Medway, W. A.	Attendant	2 June, 1922	2 June, 1922.
Stein, H. W.	Attendant	1 July, 1922	1 July, 1922.
Melver, J.	Attendant	29 Mar., 1926	29 Mar., 1926.
Barnes, Miss G.	Attendant	1 July, 1924	1 July, 1924.
Haylings, F. L.	Night Attendant	1 July, 1922	24 Aug., 1924.
Glazebrook, T.	Night Attendant	11 Nov., 1922	11 Nov., 1922.

\* Service not continuous.

## APPENDIX D.

Honorary Staff of the Australian Museum at 30th June, 1927.

	Date of first appointment in the Museum.	Date of appointment to present position.
Professor T. Harvey Johnston, M.A., D.Sc., Hon. Zoologist	18 Feb., 1908	5 Mar., 1909.
Edw. F. Hallmann, B.Sc., Hon. Zoologist	9 June, 1909	1 Apr., 1912.
A. F. Bassett Hull, Hon. Ornithologist	7 Sept., 1917	7 Sept., 1917.
G. A. Waterhouse, D.Sc., B.E., Hon. Entomologist	3 Oct., 1919	3 Oct., 1919.
H. J. Carter, B.A., Hon. Entomologist	2 July, 1920	2 July, 1920.
Professor L. Harrison, B.Sc., B.A., Hon. Zoologist	1 July, 1921	1 July, 1921.
E. A. Briggs, M.Sc., Hon. Zoologist	1 June, 1912	1 July, 1921.
W. S. Dun, Hon. Palaeontologist	3 Nov., 1922	3 Nov., 1922.
H. Leighton Kesteven, D.Sc., M.D., Hon. Zoologist	1 Jan., 1906	6 Mar., 1925.

## APPENDIX E.

Honorary Correspondents of the Australian Museum at 30th June, 1927.

Mr. R. E. Baxter.	Mr. G. McAndrew.	Dr. G. A. Waterhouse.
Mr. H. Burrell.	Mr. A. E. Phillips.	Mr. H. L. White.
Sir Hugh Denison.	Mr. O. Phillips.	Mr. W. H. Wooster.
Mr. Robert Dixon.	Dr. R. H. Palleine.	Hon. Sir Alfred Meeks.
Mr. William Dixon.	Sir Arthur Rickard.	Miss Eadith Walker.
Mr. C. E. Hart.	Mr. E. H. Rainford.	Mr. R. R. Dangar.
Mr. N. S. Hefferman.	Mr. George Robertson.	Mr. R. H. Dangar.
Mr. Anthony Hordern.	Mr. T. E. Rofe.	Mr. James Burns.
Sir Samuel Hordern.	Mr. Melbourne Ward.	



## APPENDIX F.

## ADDITIONS TO THE LIBRARY.

Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
PART I.—AUTHORS.					
21959	ALCOCK, A. Materials for a Carcinological Fauna of India. Nos. 1-6. ( <i>Journ. Asiat. Soc. Beng.</i> , LXIV-LXIX.) In 1 vol. 8vo. Calcutta, 1895-1900.	Presented, Estate of late A. R. McCulloch.	21998	COUTIÈRE, H. Collected Papers on Crustacea. 1 vol. 8vo. Various, 1897-1909.	Presented, Estate of late A. R. McCulloch.
22110	AMAUDRUT, M.—A. La partie Antérieure du tube Digestif et la Torsion chez les Mollusques Gastéropodes. ( <i>Thèse, Fac. Sci. Paris</i> , 1898.) 1 vol. 8vo. Paris, 1898.	Presented by Mrs. G. H. Hedley.	22116	CROSSE, H. Faune malacologique terrestre et fluviatile de la Nouvelle-Calédonie et de ses Dépendances. 1 vol. 8vo. Paris, 1894.	Presented by Mrs. G. H. Hedley.
22111	BARTSCH, P. Report on the Turton Collection of South African Marine Mollusks, with additional notes on other S. African Shells contained in the U.S. National Museum. ( <i>Bull. U.S. Nat. Mus.</i> , XCL.) 1 vol. 8vo. Washington, 1915.	Do.	22117	— Notice Biographique. ( <i>Ann. Soc. Roy. Mal. Belg.</i> XXXIII); Vie et Travaux. In 1 vol. 8vo. Paris, 1898.	Do.
22112	BERTIN, V. Révision des Tellinidés du Muséum d'Histoire Naturelle à Paris. ( <i>Nouv. Arch. Mus. Hist. Nat.</i> (2), I.) 1 vol. 4to. Paris, 1878.	Do.	22154	CROWDER, W. Dwellers of the Sea and Shore. 1 vol. 8vo. London, —	Purchased.
22113	— Révision des Garidées...; Donacidées... ( <i>Nouv. Arch. Mus. Hist. Nat. Paris</i> (2), III-IV.) In 1 vol. 4to. Paris, 1880-81.	Do.	22278	DAHL, K. In Savage Australia; an account of a hunting and collecting expedition to Arnhem Land and Dampier Land, with a foreword by F. Nansen. 1 vol. 8vo. London, 1926.	Purchased.
22283	BEST, E. Games and Pastimes of the Maori; an account of various exercises, games and pastimes of the natives of New Zealand, as practised in former times; including some information concerning their vocal and instrumental music. ( <i>Bull. Dominion Mus.</i> VIII.) 1 vol. 4to. Wellington, 1925.	Presented by author.	22118	DAKIN, W. J. Pearls. 1 vol. 8vo. Cambridge, 1913.	Presented, by Mrs. G. H. Hedley.
22607	BOLAM, A. G. The Trans-Australian Wonderland, 4th edition. 1 vol. 8vo. Melbourne, 1925.	Purchased.	22121	DALL, W. H. List of Marine Mollusca comprising the Quarternary Fossils and recent forms from American Localities between Cape Hatteras and Cape Roque including the Bermudas ( <i>Bull. U.S. Geol. Surv.</i> XXIV.) 1 vol. 8vo. Washington, 1885.	Do.
22153	BOULENGER, E. G. The Aquarium Book. Illustrated by L. R. Brightwell. 1 vol. 8vo. London, 1925.	Purchased.	22119	— Mollusca and Brachiopodi:—Of the Dredging Operations off the West Coast of Central America to the Galapagos, to the West Coast of Mexico, and in the Gulf of California, during 1891, and of the Expedition to the Eastern Tropical Pacific, from October, 1904, to March, 1905, in the "Albatross." ( <i>Bull. Mus. Comp. Zool.</i> , XLIII, 6.) 1 vol. 8vo. Cambridge, 1908.	Do.
22114	BOUVIER, E. L. Système nerveux, morphologie générale et classification des Gastéropodes Prosobranches. ( <i>Thèse, Fac. Sci. Paris</i> .) 1 vol. 8vo. Paris, 1887.	Presented by Mr. G. H. Hedley.	22123	— Report on a Collection of Shells from Peru, with a summary of the Littoral Marine Mollusca of the Peruvian Zoological Province. ( <i>Proc. U.S. Nat. Mus.</i> XXXVII, 1909, p. 147.) A Monograph of West American Pyramidellid Mollusks. ( <i>Bull. U.S. Nat. Mus.</i> , LXVIII, 1909.) In 1 vol. 8vo. Washington, 1909.	Do.
22306	BURRELL, H. The Platypus; its discovery, zoological position, form and characteristics, habits, life history. 1 vol. 8vo. Sydney, 1927.	Purchased.	22122	— Summary of the Marine Shell-bearing Mollusks of the northwest coast of America, from San Diego, California, to the Polar Sea, mostly contained in the collection of the U.S. National Museum, with illustrations of hitherto unfigured Species. ( <i>Bull. U.S. Nat. Mus.</i> , CXII.) 1 vol. 8vo. Washington, 1921.	Do.
22151	BUSH, K. J. Revision of the Marine Gastropods referred to <i>Cyclostrema</i> , <i>Adeorbis</i> , <i>Vitrinella</i> , and related Genera; with descriptions of some new Genera and Species belonging to the Atlantic Fauna of America. ( <i>Trans. Conn. Acad. Sci.</i> , X, July, 1897.) 1 vol. 8vo. New Haven, 1897.	Presented by Mrs. G. H. Hedley.	22120	— and SIMPSON, C. T. The Mollusca of Porto Rico. ( <i>Bull. U.S. Fish. Comm.</i> , 1900, I, p. 351). 1 vol. 4to. Washington, 1901.	Do.
22140	CANEFRI, C. T. Zoologia del Viaggio intorno al Globo della R. Fregata "Magenta" durante gli anni 1865-68. Malacologia (Gasteropodi, Acefali e Brachiopodi). ( <i>Mem. R. Accad. Sci. Torino</i> (2), XXVIII.) 1 vol. 4to. Torino, 1874.	Do.	22301	DÖDERLEIN, L. Die Korallengattung <i>Fungia</i> . ( <i>Abhandl. Senck. Naturf. Ges.</i> , XXVII, 1). 1 vol. 4to. Frankfurt a.M. 1902.	Do.
22288	CHEESEMAN, E. The Great Little Insect. 1 vol. 8vo. London. n.d.	Presented.	22106	EATHORNE, J. R. Piscatory or, Fish and Fishermen. 1 vol. 8vo. Sydney, 1897.	Presented, Estate of late A. R. McCulloch.
22115	CONNOLLY, M. A Revised Reference List of South African Non-marine Mollusca; with descriptions of new Species in the S. African Museum. ( <i>Ann. S. Afr. Mus.</i> , XI, 3.) 1 vol. 8vo. London, 1912.	Presented by Mrs. G. H. Hedley.	22321	EHLERS, E. and BÜRGER, O. Die Bodensässigen Anneliden aus den Sammlungen der "Valdivia," by E. Ehlers, 1908. Die Nemertinen der "Valdivia," by O. Bürger, 1909. ( <i>Wiss. Ergeb. Deut. Tief. Exped. Valdivia</i> , 1898-99, XVI, 1-2). In 1 vol. 4to. Jena, 1908-09.	Presented.



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
21886	ELDRIDGE, S. The Organisation of Life. With an introduction by H. S. Jennings. 1 vol. 8vo. New York, 1925.	Presented by Columbia Univ., N.Y.	22126	HEDLEY, C. A Check-list of the Marine Fauna of New South Wales, Pt. 1., Mollusca. ( <i>Journ. Proc. Roy. Soc. N.S.W.</i> , LI, pp. M1-120.) 1 vol. 8vo. Sydney, 1918.	Presented by Mrs. G. H. Hedley.
22243	ENCYCLOPÆDIA, THE AUSTRALIAN. Vol. I, A-Lys. 1 vol. 4to. Sydney, 1925.	Presented	22128	— Revision of the Australian Turridæ. ( <i>Rec. Austr. Mus.</i> , XIII, 6.) 1 vol. 8vo. Sydney, 1922.	Do.
21939	EXPEDITION SCIENTIFIQUE NÉERLAN-DAISE À LA NOUVELLE GUINEA, 1903. Nova Guinea, vol. IV. 1 vol. 4to. Leiden, 1917.	Purchased	22130	— and SUTER, H. Reference List of the Land and Freshwater Mollusca of New Zealand. ( <i>Proc. Linn. Soc. N.S.W.</i> (2), VII.) 1 vol. 8vo. Sydney, 1892.	Do.
22312	FAUNA OF BRITISH INDIA. ARROW, G. J. Coleoptera Clavicornia — <i>Erotylidae</i> , <i>Languriidae</i> , and <i>Endomychidae</i> , 1925.		21958	HENDERSON, J. R. A. Contribution to Indian Carcinology. ( <i>Trans. Zool. Linn. Soc. Lond.</i> (2) V, 10.) 1 vol. 4to. London, 1893.	Presented, Estate of late A. R. McCulloch.
22307-9	BAKER, E. C. S. Birds. 2nd ed. vols. I-III, 1922-26.		22124	HISTOIRE NATURELLE DE LA FRANCE. Pte. VI-VII, Mollusques, par A. Granger. 1 vol. 8vo. Paris.	Presented by Mrs. G. H. Hedley.
22310	ERUNETTI, E. Diptera. Vol. III. <i>Sipunculidae</i> , <i>Syrphidae</i> , <i>Conopidae</i> , <i>Astridae</i> , 1923.		22155	HOLMES, J. H. In Primitive New Guinea; an account of a quarter of a century spent amongst the primitive Ipi and Nama groups of tribes of the Gulf of Papua, with an interesting description of their manner of living, their customs and habits, feasts and festivals, totems and cults. With an introduction by A. C. Haddon. 1 vol. 8vo. London, 1924.	Purchased
22314	HARDING, W. A., and MOORE, J. P. Hirudinea, 1927.		22156	HOPKINSON, E. Records of Birds bred in Captivity. 1 vol. 8vo. London, 1926.	Purchased
22313	MAULIK, S. Coleoptera, Chrysomelidae ( <i>Chrysomelinae</i> and <i>Halticinae</i> ), 1926.		21872	HORNELL, J. The Outrigger Canoes of Indonesia. ( <i>Bull. Madras Fish. Dept.</i> , XII, p. 43.) 1 vol. 8vo. Madras, 1920.	Presented
22311	STEPHENSON, J. Oligochaeta, 1923. 8 vols. 8vo. London, 1922-27.	Purchased	21873	— The Common Mollusca of South India. ( <i>Bull. Madras Fish. Dept.</i> , XIV, p. 97.) 1 vol. 8vo. Madras, 1922.	Presented
22117	FISCHER, H. Notices de. 1 vol. 8vo. Paris.	Presented by Mrs. G. H. Hedley.	22280	HOSE, C. Natural Man, a record from Borneo. With a preface by G. E. Smith. 1 vol. 8vo. London, 1926.	Purchased
21991-2	FOWLER, H. W. Collected Papers on Ichthyology, vols I-II. 2 vols. 8vo. Various, 1903-23.	Presented, Estate of late A. R. McCulloch.	22000	HUBBS, C. H. Collected Papers on Ichthyology. 1 vol. 8vo. Various, 1918-24.	Presented, Estate of late A. R. McCulloch.
21990	GILBERT, C. H., and Others. Collected Papers on Ichthyology. 1 vol. 8vo. Various, 1893-1920.	Do.	22132	IHERING, H. von. Les Mollusques Fossiles du Tertiaire et du Crétacé Supérieur de l'Argentine. ( <i>An. Mus. Nac. Buenos Aires</i> , XIV, pp. 1-611.) 1 vol. 8vo. Buenos Aires, 1907.	Presented by Mrs. G. H. Hedley.
21993	GILL, T. Collected Papers on Ichthyology. 1 vol. 8vo. Various, 1890-1909.	Do.	22133	INTERNATIONAL SCIENTISTS DIRECTORY, THE. Containing the names, addresses, special departments of study, &c., of amateur and professional naturalists, chemists, physicists, astronomers, &c., in America, Europe, Asia, Africa and Oceania. Compiled by S. E. Cassino. 1 vol. 8vo. Boston, 1882.	Do.
21918-25	GOLDSCHMIDT, V. Atlas der Krystallformen. Vols. III-IX. 9 vols. 4to. Heidelberg, 1916-23.	Purchased	22134	JOHNSTON, R. M. Provisional Aid to the Study of the Tasmanian Mollusca, containing a systematically arranged list of all the recorded species, together with a key to, and a brief description of, the various classes, orders, families, genera, and subgenera. 1 vol. 8vo. Hobart.	Do.
21956	GRIFFITH, J. W., and HENFREY, A. The Micrographic Dictionary. 1 vol. 8vo. London, 1856.	Presented, Estate of late A. R. McCulloch.	22134	— Further Observations upon the Fishes and Fishing Industries of Tasmania, together with a revised List of Indigenous Species. ( <i>Proc. Roy. Soc. Tasman.</i> , 1890 (1891), pp. 22-46.) 1 vol. 8vo. Hobart, 1891.	do
22279	HAMBLY, W. D. Origins of Education among Primitive Peoples; a comparative study in Racial Development. With a preface by C. Hose. 1 vol. 8vo. London, 1926.	Purchased	21944	JORDAN, D. S. A Classification of Fishes, including Families and Genera as far as known. ( <i>Jel. Stanf. Jr. Univ., Biol. Sci.</i> III, 2.) 1 vol. 8vo. Palo Alto, 1923.	Presented, Estate of late A. R. McCulloch.
21876	HAMILTON, G. E. H. B., and HINTON, M. A. C. Reports on Papers left by the late G. E. H. Barrett-Hamilton relating to the Whales of South Georgia, by M. A. C. Hinton. 1 vol. fol. London, 1925.	Presented			
22108	HARGRAVES, W. H. Catalogue of the "Hargraves Collection of Shells." 1 vol. 8vo.	Purchased			
22129	HEDLEY, C. The Mollusca of Funafuti. Pts. I-II and Supplement ( <i>Mem. Austr. Mus.</i> , III, 7-9.) 1 vol. 8vo. Sydney, 1899.	Presented by Mrs. G. H. Hedley.			
22127	— Scientific Results of the Trawling Expedition of H.M.C.S. "Tetis." Mollusca, pts. I-II. ( <i>Mem. Austr. Mus.</i> IV, 5-6.) 1 vol. 8vo. Sydney, 1902-03.	Do.			
22131	— Presidential Address (An Ecological Sketch of Sydney Beaches.) ( <i>Journ. Proc. Roy. Soc. N.S.W.</i> , XLIX.) 1 vol. 8vo. Sydney, 1915.	Do.			
22125	— A Preliminary Index of the Mollusca of West Australia ( <i>Journ. Roy. Soc. W. A.</i> , I). 1 vol. 8vo. Perth, 1916.	Do			



Reg. No.	Books.	How acquired	Reg. No.	Books.	How acquired
21941	JORDAN, D. S. Fishes. 1 vol. 4to. New York and London, 1925. Purchased		22320	MURRAY, J., and CHUMLEY, J. The Deep-sea Deposits of the Atlantic Ocean. Descriptions prepared under the direction of the late J. Murray, and discussion of the results by J. Chumley. ( <i>Trans. Roy. Soc. Edinb.</i> , LIV., 1.)	
21994	— Collected Papers on Ichthyology. 1 vol., 8vo. Various, 1902-23. Presented.	Estate of late A. R. McCulloch.	21989	NOBILI, G. Collected Papers on Crustacea. 1 vol. 8vo. Various, 1900-06. Presented	Estate of late A. R. McCulloch.
21995	— and Others. Collected Papers on Ichthyology. 1 vol. 8vo. Various, 1904-20. Do.		22144	ODHNER, N. H. Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia, 1910-13. XVII. Mollusca. 1 vol. 4to. Stockholm, 1917. Presented	by Mrs. G. H. Hedley.
21943	— and EVERMANN, B. W. The Aquatic Resources of the Hawaiian Islands. Sec. II. Deep-sea Fishes, by C. H. Gilbert. ( <i>Bull. U.S. Fish. Comm.</i> , 1903, 2.) 1 vol. 4to. Washington, 1905. Do.		21917-8	OGILBY, J. D. Collected Papers on Fishes, I-II. 2 vols. 8vo. Various, 1903-22. Presented	Estate of late A. R. McCulloch.
22207	— and GILBERT, J. Z. Fossil Fishes of Southern California. Parts I-III. ( <i>Lel. Stanf. Jr. Univ. Publ. Univ. Series.</i> ) 1 vol. 8vo. Palo Alto, 1919. Do.		22145	PALLAS, P. S. Charakteristik der Thierpflanzen, worin von den Gattungen derselben allgemeine Entwürfe, und von denen dazugehörigen Arten kurze Beschreibungen gegeben werden, nebst den vornehmsten Synonymen der Schriststeller . . . Lateinischen übersezt . . . O. F. Wiltens . . . und nach einem Tode herausgegeben J. F. W. Herbst. 1 vol. 4to. Nurnberg, 1787. Presented	by Mrs. G. H. Hedley.
21942	— and SEALE, A. The Fishes of Samoa. Description of the Species found in the Archipelago, with a provisional Check-list of the Fishes of Oceania. ( <i>Bull. U.S. Bur. Fish.</i> , XXV, pp. 173-455.) 1 vol. 4to. Washington, 1906. Do.			PAMPHLETS.	
21945	— TANAKA, S., and SNYDER, J. O. A Catalogue of the Fishes of Japan. ( <i>Journ. Coll. Sci. Tokyo Imp. Univ.</i> , XXXIII, 1.) 1 vol. 8m. 4to. Tokyo, 1913. Do.		22167	8vo. Series, vol. CXXXII, CLII, General Zoology, No. 7-8.	
22135	LAMY, E. Révision des <i>Arca</i> vivants du Muséum d'Histoire de Paris. ( <i>Journ. d. Conchyl.</i> , LV.) 1 vol. 8vo. Paris, 1907. Presented	by Mrs. G. H. Hedley.	21964-81	CXLVIII-CLII, CLVII-CLXV, Presented Fishes, Nos. 7-18. CLIII-CLVII, Crustacea, Nos. 7-11. 19 vols. 8vo. Various.	Estate of late A. R. McCulloch
22157	LEGGATT, W. E. The Romance of Evolution. Being a scientific review of the Phenomena surrounding the mysteries of evolution and the advent of man; also the phenomena of evolution throughout nature, embodying some indelible facts of science and philosophy respecting organic, botanic, and stellar evolution. 1 vol. 8vo. Sydney, 1926. Presented		21981-7	Folio Series, vol. XXXI-XXXIII, Crustacea, Nos. 3-5i	
21940	McCULLOCH, A. R. Check-list of the Fishes and Fish-like Animals of New South Wales. ( <i>Handb., Roy. Zool. Soc. N.S.W.</i> , I.) 1 vol. 4to. Sydney, 1922. Presented,	Estate of late A. R. McCulloch.	22008	XXXIV-XXXVI, Fishes, Nos. 1-3. XXXVII, General Zoology, No. 1.	
22001-4	— Collected Papers on Fishes, Crustaceans, &c. 4 vols. 8vo. Various, 1906-26. Do.		22142	PELSENÉER, P. Introduction a l'Etude des Mollusques. <i>Mem. Soc. Roy. Mal. Belg.</i> , XXVII.) 1 vol. 8vo. Bruxelles, 1894. Presented	by Mrs. G. H. Hedley.
22300	MARENZELLER, E. VON. Rifkorallen. ( <i>Exped. S. M. Schiff "Pola" in das Rote Meer</i> , . . . 1985-98, <i>Zool. Ergeb.</i> , XXVI.) 1 vol. 4to. Wien, 1906. Do.		21963 } 22005 }	RATHBUN, M. J. Collected Papers on Crustacea. Vols. I-II. 2 vols. 8vo. Various, 1893-1924. Presented	Estate of late A. R. McCulloch
22136	MARTENS, E. VON and PFEFFER, G. Die Mollusken von Süd-Georgien nach der Ausbeute der Deutschen Station, 1882-83. ( <i>Jahrb. Wiss. Anstalt. Hamburg</i> , III, 1885.) 1 vol. 8vo. Hamburg, 1886. Presented	by Mrs. G. H. Hedley.	21952 } 21996 }	REGAN, C. T. Collected Papers on Ichthyology. Vols. I-II. 2 vols. 8vo. Various, 1903-24. Do	
22137-8	MAY, W. L. A Check-list of the Mollusca of Tasmania; Illustrated Index of Tasmanian Shells. In 1 vol. 8vo. Hobart, 1921-28. Do.		22158	RIVERS, W. H. R. Psychology and Ethnology. Edited, with preface and introduction, by G. E. Smith. 1 vol. 8vo. London, 1926. Presented	
22139	— and PETTERD, W. F. Revised Census of Tasmanian Fluvial Mollusca; Revised Census of the Terrestrial Molluscas of Tasmania. In 1 vol. 8vo. Hobart and Sydney, 1909-20. Do.		22159	ROUT, E. A. Maori Symbolism; being an account of the Origin, Migration, and Culture of the New Zealand Maori as recorded in certain Sacred Legends. Report made by . . . from the evidence of Hohepa te Rake (an Arawa Noble). With a preface by A. W. Lane. 1 vol. 8vo. London, 1926. Do	
22319	MOREIRA, C. Crustaceos do Brazil. ( <i>Arch. Mus. Nac. Rio de Janeiro</i> , XI.) 1 vol. Fol. Rio de Janeiro, 1901. Presented,	Estate of late A. R. McCulloch.	22141	SCHWARTZ VON MOHRENSTERN, G. Über die Familie der Rissoiden und insbesondere die Gattung. [I] <i>Rissoina</i> . [II] <i>Rissoa</i> . ( <i>Denk. Math. Nat. Cl. K. Ak. Wiss. Wien</i> , XIX, XXIII.) In 1 vol. 4to. Wien, 1860-64. Presented	by Mrs. G. H. Hedley
21946	MÜLLER, F. Facts and Arguments for Darwin . . . with additions by the author. Translated from the German by W. S. Dallas. 1 vol. 8vo. London, 1869. Do.		22180 } 22299 }	SIBOGA-EXPEDITION. Monographie XVI and XXVIII. 2 vols. 4to. Leiden, 1902-26. Purchased	
22143	MURRAY, J. On the Deep and Shallow Water Marine Fauna of the Kerguelen Region of the Great Southern Ocean. ( <i>Trans. Roy. Soc. Edinb.</i> , XXXVIII, 2.) 1 vol. 4to. Edinburgh, 1896. Presented	by Mrs. G. H. Hedley.			



Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
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22149	SMITH, E. A. On the Fresh-water Shells of Australia. ( <i>Journ. Zool., Linn. Soc. Lond.</i> , XVI, pp. 255-324.) 1 vol. 8vo. London, 1883.	Do	21949-51	— Collected Papers on Ichthyology. Vols. I-III. 3 vols. 8vo. Various, 1894-1923.	Do.
22100	SMITH, H. M. The Fishes of North Carolina. ( <i>Nth. Carolina Geol. Econ. Surv.</i> , II.) 1 vol. 4to. Raleigh, 1907.	Presented, Estate of late A. R. McCulloch.	22289-96	WATTS, H. A Dictionary of Chemistry and the Allied Branches of other Sciences. Vols. I-VIII, pt. 1. 8 vols. 8vo. London, 1875-79.	Presented by Mrs. M. S. Steel.
21997	SNYDER, J. O. Collected Papers on Ichthyology. 1 vol. 8vo. Washington, 1900-24.	Do	22006	WEBER, M. Die Fische der Siboga-Expedition. ( <i>Siboga Exped. Mon.</i> , LVII.) 1 vol. 4to. Leiden, 1913.	Presented, Estate of late A. R. McCulloch.
22162	SOUF, A. S. Le and BURRELL, H. The Wild Animals of Australasia, embracing the Mammals of New Guinea and the nearer Pacific Islands. With a Chapter on the Bats of Australia and New Guinea, by E. Le G. Troughton. 1 vol. 8vo. London, &c., 1926.	Purchased	22161	WHEELER, G. C. Mono-Alu Folklore (Bougainville Strait, Western Solomon Islands). 1 vol. 8vo. London, 1926.	Presented
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21990	STEBBING, T. R. R. Collected Papers on Crustacea. 1 vol. 8vo. Various, 1898-1908.	Do	22151	VERRILL, A. E. A Study of the family Pectinidae, with a Revision of the Genera and Subgenera. ( <i>Trans. Conn. Acad. Sci.</i> , X.) 1 vol. 8vo. New Haven, 1897.	Presented by Mrs. G. H. Hedley.
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22148	STURANY, R. Berichte der Commission für Tiefsee-Forschungen, XVIII. Zoologische Ergebnisse, VII. Mollusken, I (Prosobranchier und Opisthobranchier; Scaphopoden; Lamellibranchier) gesammelt von S. M. Schiff <i>Pola</i> 1890-94. ( <i>Denk. Math. Nat. Cl., K. Ak. Wiss. Wien.</i> , LXIII, pp. 1-36.) 1896. Berichte der Commission für Océanographische Forschungen. Expedition S. M. Schiff <i>Pola</i> in das Rothe Meer Nördliche und Südliche Hälfte, 1895-96 und 1896-98. Zoologische Ergebnisse, XIV. Lamellibranchier. XXIII. Gastropoden. ( <i>Loc. cit.</i> , LXIX, 1899; LXXIV, 1903.) In 1 vol. 4to. Wien, 1896-1903.	Do	Commonwealth of Australia.		
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21960	AUSTRALIAN MUSEUM. Catalogue of the Stalk- and Sessile-eyed Crustacea, by W. A. Haswell. 1 vol. 8vo. Sydney, 1882. Presented, Estate of late A. R. McCulloch.		21928	BRITISH MUSEUM (NATURAL HISTORY). Synonymy of the British Non-marine Mollusca Recent and Post-Tertiary. Compiled and annotated by A. S. Kennard and B. B. Woodward. 1 vol. 8vo. London, 1926. Presented	
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General Expenses	171	7	1			
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Salaries and Sundry Expenses	1,041	9	1			
			1,041	9	1	
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Artificers—Salaries and Stores	690	1	3			
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Working Expenses, Stores and Supplies	253	12	9			
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Lectures—Fees and Expenses	213	8	1			
			213	8	1	
Pensions	156	0	0			
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Depreciation—Equipment, Furniture and Plant	123	15	9			
			123	15	9	
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Magazine—Publication and Distribution	656	14	9			
Less Stocks on hand	250	14	5			
			406	0	4	
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Publication and Distribution	486	1	8			
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			199	8	8	
"Records," &c., Publication			292	4	2	
			£19,580	14	2	
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[1 plate (photos).]

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