

1929.

NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(ANNUAL REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30th JUNE, 1928.)

TO HIS EXCELLENCY THE GOVERNOR,

The Trustees of the Australian Museum have the honour to submit to your Excellency their seventy-fourth Annual Report, being for the year ended 30th June, 1928.

1. TRUSTEES.

The Board of Trustees suffered a great loss by the death of Professor Launcelet Harrison, Challis Professor of Zoology in the University of Sydney, who died on 20th January, 1928. He was elected to the Board on 4th April, 1924, and had taken a very active part in the affairs of the Trust. The Trustees placed on record their high appreciation of the services rendered by Professor Harrison to the Museum, to the University, and to zoological science. To fill the vacancy, Professor A. N. St. G. Burkitt, M.B., B.Sc., Professor of Anatomy in the University of Sydney, was elected on 4th April, 1928.

Sir Charles Rosenthal was re-elected President in December, 1927, and, in thanking his colleagues, he expressed the hope that during the ensuing year tangible results would be achieved in the extension of the Museum buildings.

On their return from extended trips abroad, Dr. T. Storie Dixson, Mr. O. C. Beale, and Mr. E. C. Andrews, were cordially welcomed by the President and members of the Board. Dr. Dixson took the opportunity of visiting some leading Museums in South Africa, Britain, and America, and made extensive observations and notes, which will be found very useful, particularly in the construction and lighting of group exhibits.

2. CENTENARY OF THE MUSEUM.

To mark the hundredth anniversary of the founding of the Museum the Trustees placed on the College-street facade a bronze memorial tablet bearing a suitable inscription. On 19th December, the Honorable T. R. Bavin, K.C., M.L.A., Premier, unveiled the tablet, and in the course of his remarks stated that the appeal of the Trustees for funds to extend the buildings deserved the support of the Government and the public. He spoke in appreciative terms of the services of the Museum to education, to the public, and to science, and promised that its claims to increased financial assistance would not be overlooked.

3. CHANGE OF TITLE.

The Trustees have submitted, through the Minister for Education, a petition for the right to change the title of the Museum to "The Royal Australian Museum." It was considered that this would add a distinction to the institution, and would fittingly mark its entry on the second century of its activities.

4. STAFF.

Awards under the Industrial Arbitration Act, 1912, and Industrial Arbitration (Amendment) Act, 1926, were completed in respect of employees of the various branches. In view of the effect of awards, the Trustees resolved to amend the Staff Instructions. A Special Committee was appointed to revise these Instructions, and the report of that committee is now being considered.

The resignation of Mr. C. M. G. Friend, Cadet, was accepted, and his engagement terminated on 30th June, 1928.

A list of the staff and of honorary officers will be found in Appendices A and B.

5. HONORARY CORRESPONDENTS.

Under By-law VII those who have rendered any service to the Museum or to the cause of science may be elected Honorary Correspondents. A list of Honorary Correspondents will be found in Appendix C.

During the year Mr. E. C. Andrews, Trustee, and Dr. C. Anderson, Director, were elected Corresponding Foreign Members of the American Museum of Natural History, New York.

C. BUILDINGS.

A deputation of the Board waited upon the Minister for Education on 12th July, 1927, and laid before him the urgent need for the extension of the buildings. The Minister assured the deputation that their appeal had his fullest sympathy, and promised to place the claims of the Museum before Cabinet. He could not, however, agree to make the site of the William-street Public School available for Museum purposes. The President has prepared sketch plans for the extension of the north wing eastward on the existing site, and hope is entertained that progressive amounts, spread over a number of years, will be placed on the Estimates for the very desirable extension.

7. ATTENDANCE OF VISITORS.

The attendance of the public during the year reached the total of 280,332, a slight decrease from last year. Statistics of attendances for the years 1917-1928 are appended:—

	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
1927-1928	204,437	75,895	280,332

8. LIBRARY.

Acquisitions totalled 513 volumes, besides loose parts and reprints. Notable amongst the acquisitions was the generous gift by Mr. George Robertson of a collection of water-colour drawings by Miss Stone of objects in Sir Ashton Lever's Museum, some of which are similar to specimens in our own collection of Cook relics.

Much assistance has been given to students, correspondents, and the press, the resources of the library being placed at their disposal, and information given on special subjects.

The Librarian has, as hitherto, given material assistance in editorial work, and has supervised the printing of official publications. He has been appointed to represent the Trustees on the Committee on Standard Typography, formed under the auspices of the Australian Commonwealth Association of Simplified Practice.

9. FIELD WORK.

Two collecting trips to the Colong district, near Yerranderie, New South Wales, by Dr. C. Anderson and Messrs. A. Musgrave, T. G. Campbell, and J. H. Wright, added a number of marsupials, bats, birds, frogs, insects, and spiders to the collection. At the invitation of Miss P. Sachs, Mr. T. Hodge Smith visited the molybdenite mines, Kingsgate, New South Wales, and collected a series of minerals and rocks from that locality. During and after the meeting at Hobart, Tasmania, of the Australian Association for the Advancement of Science, Dr. Anderson and Messrs. Musgrave and Whitley made a general collection comprising mammals, reptiles, frogs, fishes, and invertebrates. A number of short collecting trips in the neighbourhood of Sydney were made from time to time, chiefly during week-ends, and valuable information was thus obtained regarding the seasonal variation in the occurrence of marine organisms on our shores. Mr. J. R. Kinghorn made several trips to the Leeton Irrigation Area to study the food habits of wild ducks, particularly with reference to their alleged destructiveness to rice crops; this was in response to the request from the Water Conservation and Irrigation Commission.

10. LECTURES.

Lectures in the Museum comprise a regular series of popular evening discourses, open free to the public; a course of lectures to school children; occasional lectures to students of sundry institutions. In addition, outside (Extension) lectures are delivered at the request of various societies and organisations.

The total attendance at Museum lectures of all kinds during 1927-28 were as follows:—

17 Evening lectures	4,347
10 School lectures...	1,920
5 Lectures to deaf, dumb and blind Pupils	73
5 Lectures in Boys' High School	2,000
6 Special lectures in the Museum	100
7 Extension lectures	723
10 Unofficial lectures	600
	<hr/>
	9,763

Details of lectures and attendances will be found in Appendix D.

11. PUBLICITY.

Acting upon the suggestion of the Director the assistance of other State Museums in promoting the sale of the Australian Museum Magazine was sought, and the Museums of Adelaide, Brisbane, Hobart, and Perth have afforded publicity to the Magazine in their galleries.

The coloured postcards of Australian birds have proved a financial success, and the Trustees are now promoting the issue of a series of Ethnological postcards produced from the negatives of Captain Frank Hurley, and a series of coloured postcards of Australian mammals.

A reprint in enlarged form of "Aboriginal Words and their Meanings," by Mr. W. W. Thorpe, has been placed on sale in the galleries.

Publicity circulars and folders are now used as enclosures in correspondence, and the Trustees contemplate the issue of leaflets and a booklet describing various gallery exhibits. On occasions broadcasting talks have been given by members of the staff. The Secretary, Mr. W. T. Wells, discoursed on "The Early History of the Museum," Mr. W. W. Thorpe on "The Aborigines of Port Jackson" and "The Natives of the Solomon Islands." Mr. J. R. Kinghorn gave a series of twelve talks on natural history.

12. DONATIONS.

During the year donations in cash were received as follows:—

	£	s.	d.
Dr. G. H. Abbott	...	...	...
Dr. C. Gordon Macleod	...	...	...
Mr. M. S. Stanley	...	...	...
Broken Hill Mining Companies	...	...	...
Cremorne Club Limited	...	...	...
Mr. E. M. Sandy	...	...	...
Imperial Service Club	...	...	...
	£275	8	0

13. THE COLLECTIONS.

Mammals (E. Le G. Troughton in charge).—In number, variety, and range of localities, acquisitions were considerably in advance of the previous year.

Outstanding donations were a platypus, and spiny ant-eater, a number of marsupials, including a series of Matschie's tree kangaroo (*Dendrolagus matschiei*), indigenous and foreign rodents, and monkeys from the Toronga Park Zoological Trust. Many valuable acquisitions resulted from the personal exertions and expenditure of Mr. A. S. Le Souef, comprising marsupials and rodents from Tasmania and the islands of Bass Strait, and similar animals and bats from South-western Australia. Two very fine consignments were received from Mr. C. T. McNamara, Government Officer, Northern Division, Papua, the value of the specimens, which are mainly new to our collection, being greatly increased by the fact that they are accompanied by the native names and complete data. Mr. C. E. Hart, of Guadalcanal, Solomon Islands, added a collection of seven species of bats to the excellent material previously presented by him, and Mr. J. M. Nicol, Government Officer, Tanna, New Hebrides, supplied a series of the long-tailed fruit bat (*Notopteris macdonaldi*), the only spirit specimens of this species in the collection. Mr. G. A. V. Stanley, B.Sc., Department of Geography, University of Sydney, obtained a bat and several rats from Rennell Island, Solomon Group, a remote and seldom-visited locality. Small collections were also received from the estates of the late H. L. White, J. J. Fletcher, and C. Hedley.

An excellent series of rat kangaroos (*Potorous* and *Beltongia*) was received in exchange from Professor T. T. Flynn, D.Sc., University of Tasmania, and exchanges were also arranged with the University of Moscow, and Mr. G. E. Mason, London. A wallaroo, great grey kangaroo, and a water rat were obtained by purchase.

Collecting activities by the staff added large series of interesting material, including a collection of bats, rodents, and marsupials from the Colong district, near Yerranderie, New South Wales, collected by Dr. C. Anderson and Messrs. T. G. Campbell and J. H. Wright. A fine collection of thirty-five bats was secured in the cellars of "Elizabeth Bay House, Sydney," once the residence of Sir William Macleay, and a Tasmanian spiny ant-eater and a bat were obtained by Dr. Anderson and party when on a visit to Tasmania.

The comprehensive rearrangement of the mammal gallery, begun last year, was completed by Assistant Taxidermist W. Barnes. This involved the removal of superfluous fittings and specimens, renovation, and arrangement to better advantage.

New specimens, preserved or skinned, numbered 464. Three hundred and twenty-seven exhibits were restored and cleaned, and 107 specimens filled out. The stored collection of skins and mounted specimens was carefully overhauled, disinfected, and left in excellent condition. This work has been rendered increasingly difficult, owing to lack of suitable storage space and facilities, so that much consideration has been devoted to planning the shelving and cabinets to be installed in the new mammal storage room provided by the additions to the spirit house, which were completed during the year.

A bison's head was renovated and transferred to the Technological Museum, to be forwarded to a country branch, and a great grey kangaroo, platypus, and spiny ant-eater were sent to the Teachers' Training College.

Assistance was afforded to Customs officers, to the Chief Secretary's and Agricultural Departments, and to the Forestry Commission. Facilities and assistance were given throughout the year to Mr. A. S. Le Souef in examining skins and crania in connection with researches upon which he was engaged.

The cast of Risso's grampus, prepared last year by the Articulators, Messrs. G. C. Clutton and J. Kingsley, was coloured by Miss King and placed on view. A fine specimen of the Australian dugong, presented by Mr. W. W. McCullough, Superintendent of the Yarrabah Mission, Cairns, North Queensland, was cast by Messrs. Clutton and Kingsley. We are indebted to Mr. H. A. Longman, Director, Queensland Museum, for assistance in obtaining this specimen, and to Howard Smith, Limited, for bringing it to Sydney in cold storage free of cost.

Skeletons (E. Le G. Troughton in charge).—A useful series of skulls was prepared from marsupials, unsuitable for skinning, received from the Taronga Park Zoological Trust. From the dugong presented by the Superintendent, Yarrabah Mission, Cairns, North Queensland, a fine skeleton was completed. A series of crania, comprising those of the dingo, a seal, and various marsupials, was received from Mr. A. S. Le Souef; the skulls of a Copt and a Sudanese from Mr. E. O. Milne; of a wallaroo and a wallaby, from Mr. Michael Terry; the skulls of two aborigines from the collection of the late H. L. White.

By exchange we received four crania, representing three genera of seals, from the California Academy of Sciences; two skulls of the South Australian wallaroo, from the South Australian Museum, and a complete skeleton and a skull of rat kangaroo, Tasmania, from Professor T. T. Flynn. The skeleton of a tiger cat and the skull of a flying phalanger (*Petauroides volans*) were added to the osteological series as part of the collections made in the Colong district by Dr. C. Anderson and party.

A general overhaul of the osteological gallery involved the restoration and cleaning of specimens and the usual fumigation. Among the specimens dealt with during the year were over seventy skulls cleaned and placed in the collection, and the preparation of the large elephant skeleton was completed. "Old collection" crania were identified in the course of the study of new material, the collection of duplicate crania was rearranged, and several new labels were prepared for gallery exhibits.

On various occasions facilities for working on the collection of human crania were granted to Professor A. N. Burkitt, Mr. Dear, and students of the Anatomy Department of the University. Crania of the elephant seal were lent for study to the California Academy of Sciences.

Birds (J. R. Kinghorn in charge).—During the year ninety-two birds were presented, one purchased, and twenty collected. An interesting collection from Rennell Island, Solomon Group, was presented by Mr. G. A. V. Stanley.

The collection of mounted and stored skins has been systematically overhauled and disinfected by the taxidermists, and is in good order. In addition to new skins prepared, 17 were mounted for exhibition in the gallery, and 20 for educational purposes; 44 exhibits were restored, and 88 old skins cleaned. In continuation of the work of replacing inferior exhibits, the group of wrens was removed from the gallery and new and better specimens substituted. A "light and shade" exhibit, illustrating Thayer's theory of concealment by colouration, has been placed in the gallery; this work was done by Mr. H. S. Grant, Senior Taxidermist, and Miss E. A. King, Artist.

During the year, Mr. Kinghorn was frequently called upon to give advice to the Chief Secretary and the Customs Department regarding the protection and the exportation and importation of birds, and he also represented this State at the conference held at Melbourne in April to make recommendations regarding the protection and the export of Australian animals.

It is to be regretted that some recent fine accessions, such as the Grant collection of Australian and foreign birds, cannot be displayed for lack of floor space. Exhibits of Australian bird life are both educative and attractive, and it is to be hoped that provision will be made in the near future for exhibition of the many fine specimens which are now stored away. Meantime, every care is being taken to preserve these recent acquisitions in the best condition.

In course of preparation is an exhibit of lyre-birds (*Menura superba*) in the nesting season. It is intended that this shall be a realistic representation; the actual nest, the parent birds, and the natural surroundings will be shown as faithfully as possible.

Reptiles and Batrachians (J. R. Kinghorn in charge).—Acquisitions during the year numbered 243, of which 230 were presented and 13 collected. The chief donations were made by Mr. K. C. McKeown, Leeton, New South Wales, Mr. C. T. McNamara, Northern Division, Papua, and Miss Betty Morrisby, Ashford Downs, Queensland.

Fishes (G. P. Whitley in charge).—The more notable additions include a number of foreign aquarium fishes from Mr. A. Royce, mosquito-destroying species, presented by Dr. R. Hamlyn Harris, many small collections, containing rare forms, received from trawling vessels, and a series of elvers from various donors. Collections have been received from Mr. L. B. Wilson, Darwin, North Australia, a number of Queensland forms from Commander H. T. Bennett, R.A.N., Dr. Pritchard, and Mr. Melbourne Ward. From Mr. R. E. Baxter we received a number of Lord Howe Island fishes, and Mr. W. Driscoll presented a series from Bermagui, New South Wales. From Professor T. T. Flynn we received a number of Tasmanian forms.

The whole of the fish gallery was completely renovated, the interior of the cases repainted, and the wooden fittings were removed and replaced by glass shelving. The spirit-house collection was overhauled and rearranged to conform with the classification adopted in McCulloch's "Check-list of the Fishes of New South Wales." Many duplicate or inferior exhibits were removed, a number being transferred to other educational institutions. The remainder of our collection of freshwater eels was received back from Dr. Johannes Schmidt, Carlsberg Laboratory, Copenhagen, his report on the whole collection having been completed.

Numerous inquiries from Government departments and institutions and from the public have been dealt with as in former years. Sardines and their allies have been identified for Customs officers and importers, and data relative to the shark-fishing industry have been supplied. Fishes which destroy mosquito larvae have been identified for the Brisbane City Entomologist, and a list of works relating to Australian fishes and fisheries was compiled by Mr. Whitley at the request of the Development and Migration Commission.

Mr. C. T. Marshall, of the Queensland Museum, Brisbane, visited the Museum in November, to study museum methods, particularly in regard to the work of this Department.

Insects and Arachnids (A. Musgrave in charge, T. G. Campbell, Assistant).—The most important donations received were collections from Mr. C. E. Hart, Guadalcanal, Solomon Islands, the Rev. J. Done, Mitchell River Mission Station, Gulf of Carpentaria, and Mr. C. T. McNamara, Northern Division, Papua. Collections of insects from Queensland localities were presented by Mrs. P. Macarthur, Mr. W. D. Campbell, Mr. H. J. Carter, and Mr. C. E. Sims. Dr. P. A. Buxton, London School of Tropical Medicine, presented a valuable collection of Pacific Island insects. Fine series of bat parasites were secured by members of the Museum staff at "Elizabeth Bay House," Sydney, and in a tunnel at Prospect Reservoir, near Parramatta. A number of insects and spiders were collected at Colong, near Yerranderie, and at various localities in Tasmania. A fine collection of butterflies from Moa Island, Torres Strait, was purchased from the Rev. J. W. Schomberg.

During the year the principal work of the Department has been the identification, registration, and labelling of the large collections received, and the supplying of information to visitors and correspondents, chiefly on noxious insects and spiders. Many groups have been revised and brought up to date, and others sent abroad to various specialists for study and determination.

Conchology (T. Iredale in charge, Miss J. Allan, Assistant).—The acquisitions for the year number 3,708, of which 3,243 were presented, 8 secured by exchange, and 457 collected. Our regular correspondents, the Rev. Percy Hubbard, Innisfail, Queensland, Messrs. E. Bardswell, Perth, Western Australia, G. MacAndrew, Shellharbour, New South Wales, H. S. Mort and Melbourne Ward, Sydney, have continued their contributions of valuable material. Mr. J. H. L. Waterhouse, Roviana, British Solomons, has sent some interesting specimens from that locality, and Mr. H. Howell has contributed a number of specimens trawled off the coast of New South Wales, adding materially to our knowledge of forms of great scientific interest.

The collections have been overhauled in connection with the preparation of various lists of mollusca, and work on the spirit collection has also been continued. The latter is now awaiting transfer to the new spirit-house room. Systematic work on the reference collection of shells is greatly hampered by the fact that, owing to exigencies of space, part is stored in the cellar and part on the top floor.

In addition to her other duties, Miss Allan has prepared many drawings to illustrate papers on mollusca, mammals, insects, and fossils; these greatly increase the value of the Museum "Records."

Marine Invertebrates (F. A. McNeill in charge, A. A. Livingstone and W. Boardman, Assistants).—The yearly accessions totalled 1,074, and much routine work was involved in their determination, registration, and incorporation in the reference collection. Prominent among the acquisitions was a collection of Alcyonaria, made by the Mawson Antarctic Expedition and recently returned by Professor J. Arthur Thomson, University of Aberdeen. Another valuable donation was made by Mr. Melbourne Ward, as a result of his trip across the Pacific, through the Western States of America, the Canal Zone, and Cuba.

The collection of echinoderms has been completely overhauled and put into systematic order. The storage conditions of the dry section of this collection is unfortunately unchanged, and continual vigilance is necessary to check the attacks of mould encouraged by the damp condition of the storage sheds. A further batch of Bryozoa from the large donation made by Mr. W. H. Wooster has been revised prior to incorporation in the reference collection, and the identification of the Oligochaeta, presented by the late J. J. Fletcher, has been reviewed. The invertebrates collected by Messrs. E. Le G. Troughton and A. A. Livingstone in the Santa Cruz Group have been sorted, determined, and registered.

A number of crustaceans were restored and presented to the North Bondi Public School for the school museum.

Ethnology (W. W. Thorpe in charge, S. G. Gray, Assistant).—The most important donations were a collection of shell and bone nose ornaments from Collingwood Bay, Papua, by Mr. M. S. Stanley; aboriginal flaked implements from Lake Macquarie district, New South Wales, by the Rev. A. J. Barrett; aboriginal handiwork from Central and North Australia, by Mr. A. H. E. White; a dug-out canoe from Melville Island, by Commander H. T. Bennett, R.A.N.; collections of aboriginal flake-work from Morna Point and Anna Bay, near Port Stephens, New South Wales, by Mr. Thorpe. A collection of weapons and stone implements from Walgett, New South Wales, was bequeathed by the late A. G. Fox, and Mr. G. J. Waterhouse presented a number of weapons, utensils, and inlaid work from the Solomon Islands and Papua, some of which were not previously represented in our collection. Mr. G. A. V. Stanley, B.Sc., presented a fine series of specimens collected by him on Rennell Island, Solomon Group, and Mr. R. Mead a collection of weapons and other articles from Melanesia.

Purchases included an inlaid skull from Roviana, Solomon Islands, an Incan pottery vessel, and a hand-woven mat garment from Samoa.

Several minor changes have been made in the exhibition galleries, and a few specimens added; no extensive additions can be made to the exhibited collection until the building is extended. The contents of the ethnological stores are being overhauled and catalogued.

Small collections were presented to the Mosman and Wollongong Boy Scouts, and ethnological specimens were lent to the Girls' Week Celebration Committee, and to the Young Women's Christian Association.

Numismatics (W. W. Thorpe, in charge, S. G. Gray, Assistant).—Several donations were received during the year, the most important being a series of Australasian tokens presented by Mr. J. Kenderdine, Auckland, New Zealand.

By exchange, 180 coins and tokens were added to the collection, and four medals commemorating Hinkler's flight from England to Australia were acquired by purchase.

The exhibits on view near the main entrance have been regularly changed throughout the year; in this manner an extensive series of coins and medals has been exhibited to the public.

Over 800 coins and tokens were identified for correspondents and callers.

Palaeontology (C. Anderson in charge, H. O. Fletcher, Assistant).—An important donation was received from Mr. T. H. Pincombe, who presented the type specimens of insects collected by him in the Lake Macquarie district, New South Wales, and described by Dr. R. J. Tillyard, F.R.S. Mr. C. F. Laserson presented the types, figured, and other specimens which formed the subject of two papers written by him, and valuable collections were received from the Technological Museum, Sydney, and from Mr. W. S. Dun, who presented a series of the coral *Trachypora wilkinsoni*. Collections of fossil fishes from the Beacon Hill quarry, Brookvale, near Manly, were presented by Mr. M. S. Stanley and Dr. C. Anderson, respectively. Additional shale material from the Lake Macquarie district was presented by the Rev. A. J. Barrett. This shale is being closely examined for fossils, particularly insects, a work in which valuable assistance has been given by Mr. T. H. Pincombe. An interesting collection of the bones of the extinct turtle, *Meiolania platyceps*, was collected at Lord Howe Island by Mr. E. Le G. Troughton.

Mr. Fletcher has continued the work of sorting and registering the Varney Parkes collection, over 3,000 specimens having been registered during the year. The work of cataloguing and rearranging the general collection of fossils is progressing steadily.

Mineralogy (T. Hodge Smith in charge, C. M. G. Friend, Assistant).—Registrations during the year number 2,227. A small collection of choice foreign minerals was presented by Dr. O. Paul, and valuable additions were made by Mr. G. W. Card, A.R.S.M. Miss P. Sachs and Mr. H. Marshall presented a number of specimens from Kingsgate, New South Wales. During a visit to New England Mr. Smith collected a number of specimens, chiefly from the Kingsgate molybdenite mines. The most important addition was the collection of minerals purchased from Mr. George Smith. Half the cost of this valuable collection was generously presented by the North Broken Hill, Ltd., Broken Hill South, Ltd., and the Zinc Corporation, Ltd. Most of the specimens are from New South Wales, and many of the species have not hitherto been adequately represented in any collection, and are not likely to be obtained again. The most noteworthy of these are marshite, willyamite, raspite, stolzite, dycrasite, silver haloids, antimony, silver and gold. Other Australian minerals of special interest included in the collection are chillagite, autunite, nagyagite, crocoite, fergusonite, stibio-tantalite, and stichtite. Some rare foreign minerals are also included. The value of the collection is considerably enhanced by the fact that a number of the specimens have been described and figured in publications of the Australian Museum and the Geological Survey of New South Wales.

The following species not previously represented have been added during the year: bayldonite, hancokite, hydrochloro-humite, kjerulfine, meta-hewillite, and stevensite.

Three collections were prepared and delivered to schools, and the collections of the St. Leonards Public School were placed in order by Mr. Smith, who also examined and checked the collection of minerals in the Sydney Technical College.

Petrology (T. Hodge Smith in charge, C. M. G. Friend, Assistant).—The most important addition was a portion of the Yenberrie meteorite, North Australia, presented by the Hon. the Minister for Home and Territories. A number of rocks, including a series of obsidianites and a billitonite, were purchased in the George Smith collection. A series of rocks was collected by Mr. Smith in the Kingsgate district, New South Wales.

Owing to the lack of storage space many rocks are still packed away, unsectioned and undetermined.

14. GENERAL.

The Trustees were represented at the Hobart meeting of the Australian Association for the Advancement of Science by Dr. G. A. Waterhouse, Trustee, and Dr. C. Anderson, Director.

In response to a request by the Tourist and Progress Association, Burnie, Tasmania, a number of specimens, comprising mammals, birds, fishes, crustacea, mollusca, minerals, and fossils, was forwarded as a gift to the Burnie Museum.

A collection of trophies, including mounted ungulate heads, reptiles, and ethnological and other specimens was identified, catalogued, and valued for the Imperial Service Club.

In conjunction with officers of the Harbour Trust, Messrs. F. A. McNeill and T. Iredale have during the year made regular inspections of wharf piles and test pieces of timber placed in the harbour in order to gain knowledge regarding the depredations by *Teredo* and various crustacean wood-boring pests. Many new and interesting observations have been made, and they will be embodied in a joint report, which will, it is hoped, be of distinct value.

The Common Seal of the Museum was hereunto affixed by order of the Board, this thirteenth day of February, 1929.

CHARLES ROSENTHAL, President.
W. T. WELLS, Secretary.

APPENDIX A.

STAFF OF THE AUSTRALIAN MUSEUM AT 30TH JUNE, 1928.

Director	C. Anderson, M.A., D.Sc.
Administrative Staff—	
Secretary	W. T. Wells, A.I.A.V.
Clerks	J. A. Trimble. J. S. Rolfe.
Stenographer	Miss G. E. Johnstone.
Scientific Staff—	
Department of Anthropology ...	W. W. Thorpe, Ethnologist, Numismatist. S. G. Gray, Cadet.
Department of Zoology	J. R. Kinghorn, Ornithologist, Herpetologist, E. Le G. Troughton, Mammalogist, F. A. McNeill, Lower Invertebrates. A. A. Livingstone, Assistant. W. Boardman, Cadet. T. Iredale, Conchologist. Miss C. M. J. Allan, Assistant. G. P. Whitley, Ichthyologist.
Department of Entomology	A. Musgrave, Entomologist. T. G. Campbell, Assistant.
Department of Mineralogy	T. H. Smith, Mineralogist, Petrologist. C. M. G. Friend, Cadet.
Department of Palaeontology	*H. O. Fletcher, Assistant Palaeontologist.
Library Staff—	
Librarian	W. A. Rainbow.
Assistant Librarian	F. D. McCarthy.
Preparatorial Staff—	
Articulator	G. C. Clutton.
Assistant Articulator	J. Kingsley.
Taxidermist	H. S. Grant.
Assistant Taxidermist	J. H. Wright. *W. Barnes.
Mechanical Staff—	
Chief Mechanic	T. A. Henson.
Assistant Mechanic	H. Jackson.
Printer	J. Woodhead.
Attendants and General Staff—	
Chief Attendant	T. A. Murphy.
Senior Attendant	J. Watson.
Attendants	A. Mackay, E. T. Hill, D. Massey, A. B. Welsh, E. G. Morris, W. A. Medway, H. W. Stein, J. Melver, Miss G. Barnes.
Night Attendants	F. L. Haylings, T. Glazebrook.
Yardman Labourer	C. Jackson.

APPENDIX B.

HONORARY STAFF OF THE AUSTRALIAN MUSEUM AT 30TH JUNE, 1928.

Professor T. Harvey Johnston, M.A., D.Sc., Hon. Zoologist.
Edw. F. Hallmann, B.Sc., Hon. Zoologist.
A. F. Basset Hull, Hon. Ornithologist.
G. A. Waterhouse, D.Sc., B.E., Hon. Entomologist.
H. J. Carter, B.A., Hon. Entomologist.
E. A. Briggs, M.Sc., Hon. Zoologist.
W. S. Dun, Hon. Palaeontologist.
H. Leighton Kesteven, D.Sc., M.D., Hon. Zoologist.

APPENDIX C.

HONORARY CORRESPONDENTS OF THE AUSTRALIAN MUSEUM AT 30TH JUNE, 1928.

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

* Servs not continuous.

APPENDIX D.

LECTURES DELIVERED DURING THE YEAR ENDED 30TH JUNE, 1928.

Popular Science Lectures.

Date, 1927.	Subject.	Lecturer.	Attendance.
14 July	The Value of Wild Life	J. R. Kinghorn	291
28 "	Cruising in the Santa Cruz	E. Le G. Troughton	329
4 Aug.	" (repeated)	"	203
11 "	In the Macpherson Range, Queensland	A. Musgrave	285
25 "	Animal Camouflage	W. Boardman	219
8 Sept.	Some Native Races and their Customs	W. W. Thorpe	234
22 "	Marine Boring Organisms and their Work	F. A. McNeill	155
29 "	A Journey Across Europe	Sir Chas. Rosenthal	278
13 Oct.	Early Migrations in the Western Pacific	Professor Griffith Taylor	280
27 "	The Capture of Fish	T. C. Roughley	252
10 Nov.	Gould and his Birds	T. Iredale	282
1928.			
26 April	Zoological Exploration in Australia	T. Iredale	218
10 May	Australian Mangroves and their Inhabitants	A. Musgrave	280
24 "	Nature and Sport on the Great Barrier Reef	E. F. Pollock	350
31 "	" (repeated)	"	251
7 June	Diamonds	T. H. Smith	265
24 "	Nature's Realm by the Shore	W. Boardman	246

4,347

School Lectures.

1927.			
12 July	Insects and Spiders of the Sydney Bush	A. Musgrave	275
26 "	" " "	"	256
9 Aug.	Shore Life	F. A. McNeill	215
23 "	" " "	W. Boardman	240
12 Sept.	Reptiles	J. R. Kinghorn	158
2 "	" " "	"	214
1928.			
15 May	Birds	J. R. Kinghorn	196
29 "	" " "	"	179
12 June	Mammals	E. Le G. Troughton	36
19 "	" " "	"	151

1,920

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

1927.			
2 Aug.	Fiji and the Fijians	W. W. Thorpe	16
13 "	The New Hebrides	"	15
2 Sept.	Mammals	E. Le G. Troughton	14
6 "	A Marine Miscellany	W. Boardman	14
27 "	Shells	Miss J. Allan	14

73

Lectures at Boys' High School, Ultimo.

1927.			
21 July	A Naturalist on the Nepean	A. Musgrave	500
1 Sept.	Sea-Shore Life	W. Boardman	500
22 "	Nature, the Master Sculptor	T. H. Smith	500
24 Nov.	Cruising in the Santa Cruz	E. Le G. Troughton	250
8 Dec.	Romance of Ocean Depths	T. Iredale	250

2,000

Pupils of Presbyterian Ladies' College, Croydon.

1927.			
21 Feb.	Fossils	C. Anderson	16
21 "	Minerals	T. H. Smith	16

32

Students of Sydney Kindergarten Training College.

1928.			
15 Feb.	Evolution	C. Anderson	15
22 "	Prehistoric Animals	"	17
29 "	Primitive Man	W. W. Thorpe	17
7 Mar.	Ancient Egypt	"	19

68

Extension Lectures.

The following official lectures, outside the Museum, were delivered during the year:

Date, 1927.	Subject.	Lecturer.	Attendance.
22 Aug.	Cruising in the Santa Cruz (St. Mark's Church, Long Bay.)	A. A. Livingstone	163
7 Sept.	Lord Howe Island (Matheson Church, Croydon.)	A. Musgrave	100
12 Oct.	Our Feathered Friends (Presbyterian Ladies' College, Croydon.)	J. R. Kinghorn	230
9 Nov.	The Wonders of the Deep (St. Andrews' Cathedral Guild.)	T. Iredale	75
30 "	Some Native Races and their Customs (Cremorne Club, Ltd., Cremorne.)	W. W. Thorpe	60
1928.			
30 Mar.	Birds in Relation to Agriculture (Griffith Research Bureau.)	J. R. Kinghorn	35
10 April	Golden Eggs (Royal Agricultural Society's Show.)	"	60

723

Unofficial Lectures.

Date.	Subject.	Lecturer.	Attendance.
1927.			
24 Oct.	Birds with Reference to Rod Fishing (New South Wales Rod Fishers' Association.)	T. Iredale	50
5 Dec.	Marine Animal Camouflage (Royal Zoological Society, New South Wales.)	W. Boardman	20
13 "	Wonders of the Sea-shore (Church of Christ, Crow's Nest.)	"	60
14 "	Animal Camouflage (Long Bay Progress Association.)	"	30
1928.			
7 Jan.	Captain Cook and his Voyages (Manly Methodist Guild.)	T. Iredale	100
20 Mar.	Insects and Spiders of the Sydney Bush (Girl Guides' Association, Dowling-street Branch.)	T. G. Campbell	60
8 Feb.	Captain Cook and his Voyages (Long Bay Progress Association.)	T. Iredale	30
16 April	The Isles and People of Santa Cruz (Ye Idlers' Club.)	A. A. Livingstone	140
15 May	Origins and Survivals (New South Wales Feminist Club.)	W. W. Thorpe	50
25 June	Camouflage in the Sea (New South Wales Rod Fishers' Association.)	W. Boardman	60
			600

In addition the following lectures, of which statistics of attendance are not available, were delivered by members of the Scientific Staff:—

- "Ancient Egypt," by W. W. Thorpe (St. Stephens' Literary and Debating Society, 4th October, 1927).
- "Golden Eggs," by J. R. Kinghorn (Annual Meeting, Wild Life Preservation Society).
- "Value of Wild Life," by J. R. Kinghorn (Lyceum Hall).
- "Bryozoa," by A. A. Livingstone (Microscopical Society of New South Wales).
- "Natural History of the Sea-shore," by A. A. Livingstone (Workers' Educational Association of New South Wales).

APPENDIX E.

19. SCIENTIFIC PAPERS AND ARTICLES PUBLISHED OR PREPARED DURING THE YEAR.

- "A new Genus, Species and Sub-species of Marsupial Mice (Family Dasyuridae)." E. Le G. Troughton, *Rec. Aust. Mus.*, XVI, 6, 1928.
- "Last Days at Santa Cruz." E. Le G. Troughton and A. A. Livingstone, *Aust. Mus. Magazine*, III, 4, 1927.
- "Sea-Cows: the Story of the Dugong." E. Le G. Troughton, *Aust. Mus. Magazine*, III, 7, 1928.
- "Hints to Collectors—Mammals." E. Le G. Troughton, assisted by H. S. Grant, *Aust. Mus.*, 1928.
- "The Herpetology of the Solomon Islands." J. R. Kinghorn, *Rec. Aust. Mus.*, XVI, 3, 1928.
- "Notes on Some Reptiles and Batrachians from the North Division of Papua, with descriptions of new Species of *Apistocalamus* and *Leposoma*." J. R. Kinghorn, *Rec. Aust. Mus.*, XVI, 6, 1928.
- "Notes on a Collection of Birds from South and South-west Australia." J. R. Kinghorn and H. O. Fletcher, *Emu*, XXVII, Oct., 1927.
- "Bird Notes from the Australian Museum." J. R. Kinghorn, *Emu*, XXVII, April, 1928.
- "Hints for Collectors—Birds." J. R. Kinghorn, assisted by H. S. Grant, *Aust. Mus.*, 1928.
- "The Freshwater Eels of Australia, with some Remarks on the Short-finned Species of *Anguilla*." Dr. Johannes Schmidt, *Rec. Aust. Mus.*, XVI, 4, 1928.
- "Exhibition of *Iso rhathophilus*." G. P. Whitley, *Proc. Linn. Soc. N. S. Wales*, LII, 1927, Abstr. p. xlviii.
- "Angler Fishes." G. P. Whitley, *Aust. Mus. Magazine*, III, 3, 1927.
- "A Census of Australian Fishes." G. P. Whitley, *Aust. Mus. Magazine*, III, 3, 1927.
- "The Queensland Gopher." G. P. Whitley, *The Leisure Hour*, I, 10, 1927.
- "The Fishes of Michaelmas Cay, North Queensland." G. P. Whitley, *Rec. Aust. Mus.*, XVI, 1, 1927.
- "The Flower of the Wave." G. P. Whitley, *Aust. Mus. Magazine*, III, 11, 1927.
- "A Remarkable Fish Parasite." G. P. Whitley, *Aust. Mus. Magazine*, III, 4, 1927.
- "William Edward John Paradise, M.B., Ch.M., Surgeon Lieut.-Commander, R.A.N." (Obituary notice and bibliography.) G. P. Whitley and F. A. McNeill, *Aust. Zoologist*, V, 1, 1927.
- "A Guide to some of the more Important Papers on Australian Fish and Fisheries." G. P. Whitley, *Rept. Aust. Fisheries Conference*, 1927 (Melbourne Govt. Printer).
- "A Check-list of the Fishes of the Santa Cruz Archipelago, Melanesia." G. P. Whitley, *Journ. Pan-Pacif. Research Institute*, III, 1, 1927.
- "The late W. E. J. Paradise and the Australian Museum." G. P. Whitley, *Aust. Mus. Magazine*, III, 5, 1928.
- "Hints for Collectors—Fishes." G. P. Whitley, *Aust. Mus.*, 1928.
- "Fishes from the Great Barrier Reef collected by Mr. Melbourne Ward." G. P. Whitley, *Rec. Aust. Mus.*, XVI, 6, 1928.
- "R. M. Johnston's Memoranda relating to the Fishes of Tasmania." G. P. Whitley (to be published *Proc. Roy. Soc., Tas.*).
- "Feathers and Fins." T. Iredale and G. P. Whitley, *Aust. Mus. Magazine*, III, 7, 1928.
- "Check-list of the Fishes recorded from Australian Waters, Part 1." (The late) A. R. McCulloch (revised by G. P. Whitley), *Aust. Mus. Memoirs* (in the press).
- "Contributions to the Cranial Osteology of the Fishes, No. 6—Some Percomorph Skulls." Dr. H. L. Kesteven, *Rec. Aust. Mus.* (in the press).
- "Harmful Australian Spiders." A. Musgrave, *Aust. Mus. Magazine*, III, 4, 1927.
- "In the Macpherson Range." A. Musgrave, *Aust. Mus. Magazine*, III, 5, 1928.
- "The late John Hopson: An Appreciation." A. Musgrave, *Aust. Mus. Magazine*, III, 7, 1928.
- "Water Bugs." T. G. Campbell, *Aust. Mus. Magazine*, III, 3, 1927.
- "On *Enhydryus froggatti* Macleay." George Ochs, *Rec. Aust. Mus.*, XVI, 1, 1927.
- "On Diplopoda in the Australian Museum, Sydney." Dr. K. W. Verhoeff, *Rec. Aust. Mus.*, XVI, 2, 1928 (translated by C. Anderson).

SCIENTIFIC PAPERS AND ARTICLES PUBLISHED OR PREPARED DURING THE YEAR.—*continued.*

- "New Mollusca from Vanikoro." T. Iredale, *Rec. Aust. Mus.*, XVI, 1, 1927.
- "A Wave-guarded Kingdom of Birds." T. Iredale, *Emu*, XXVII, April, 1928.
- "Avifaunal Districts of Australia." T. Iredale, *Rept. Aust. Assoc. Adv. Sci.* (in the press).
- "War against Pests." F. A. McNeill and T. Iredale, *Aust. Mus. Magazine*, III, 6, 1928.
- "Studies on Australian Bryozoa, No. 5." A. A. Livingstone, *Rec. Aust. Mus.*, XVI, 1, 1927.
- "A Lilliputian Marine Battle." F. A. McNeill and H. M. Hale, *Aust. Mus. Magazine*, III, 4, 1927.
- "Hidden Dwellers of the tidal Flats." F. A. McNeill and A. A. Livingstone, *Aust. Mus. Magazine*, III, 7, 1928.
- "Sea Anemones and their Associates." A. A. Livingstone, *Aust. Mus. Magazine*, III, 7, 1928.
- "An Unwelcome Guest of Man." W. Boardman, *Aust. Mus. Magazine*, III, 6, 1928.
- "On the Genus *Stratiodrilus*, with a Description of a new Genus from Madagascar." (The late) Professor L. Harrison, *Rec. Aust. Mus.*, XVI, 2, 1928.
- "Supplementary Report upon the Bryozoa collected by Sir Douglas Mawson Antarctic Expedition, 1911-1914." A. A. Livingstone (Govt. Printer, Sydney—in the press).
- "Ethnological Notes, No. 1." W. W. Thorpe, *Rec. Aust. Mus.*, XVI, 5, 1928.
- "Aboriginal Axes." W. W. Thorpe and M. S. Stanley, *Aust. Mus. Magazine*, III, 6, 1928.
- "Water Supply of the Aborigines." W. W. Thorpe, *Aust. Mus. Magazine*, III, 7, 1928.
- "Some Aboriginal Flakes from Morna Point, New South Wales." Miss Lesley D. Hall, *Rec. Aust. Mus.*, XVI, 5, 1928.
- (Obituary of H. L. White.) C. Anderson, *Aust. Mus. Magazine*, III, 3, 1927.
- "A Gigantic Extinct Lizard." C. Anderson, *Aust. Mus. Magazine*, III, 4, 1927.
- "The Irish Deer." C. Anderson, *Aust. Mus. Magazine*, III, 5, 1928.
- (Obituary Professor Archibald Liversidge.) C. Anderson, *Aust. Mus. Magazine*, III, 5, 1928.
- (Obituaries Edgar R. Waite, Professor L. Harrison.) C. Anderson, *Aust. Mus. Magazine*, III, 6, 1928.
- "Burratorang Valley and Beyond." C. Anderson and T. G. Campbell, *Aust. Mus. Magazine*, III, 6, 1928.
- "Palaeontological Notes, No. 1." C. Anderson, *Rec. Aust. Mus.* (in the press).
- "The Food Habits of *Thylacoleo carnifex*." C. Anderson, *Rept. Aust. Assoc. Adv. Sci.* (in the press).

APPENDIX F.

List of Specimens acquired during the year ending 30th June, 1928 :—

Department.	Donation.	Exchange.	Purchase.	Prepared.	Collection.	Total.
Vertebrata—						
Mammalia	237	6	4	...	105	352
Aves	92	...	1	...	20	113
Reptilia	230	...	...	...	13	243
Pisces	497	...	...	...	64	561
Skeletons	33	6	1	...	2	42
	1,089	12	6	...	204	1,311
Invertebrata—						
Mollusca	3,243	8	...	...	457	3,708
Insects and Arachnida	2,102	...	...	...	499	2,601
Crustacea	221	...	...	...	359	580
Echinodermata	42	4	...	...	8	54
Polyzoa	1	...	...	...	...	1
Vermetes	1,031	...	...	...	32	1,063
Hydroids .....	...	...	...	...	...	...
Sponges and Foraminifera	3	17	...	...	...	20
Other Invertebrata	16	...	...	...	...	16
	6,659	29	...	...	1,355	8,043
Fossils	187	...	970	...	10	1,167
Minerals	110	...	1,954	...	163	2,227
Rocks	6	...	49	...	4	59
	303	...	2,973	...	177	3,453
Ethnological, &c.—						
Ethnological	690	...	9	...	...	699
Historical	1	...	...	...	...	1
Numismatical	70	180	5	...	...	255
	761	180	14	...	...	955
Miscellaneous—						
Micro Sections .....	...	...	...	...	4	4
Casts .....	...	1	...	7	...	8
Moulds .....	...	...	...	10	...	10
Photo Negatives .....	...	...	...	111	...	111
Lantern Slides .....	...	...	...	445	...	445
Photographs	22	...	...	5	...	27
	22	1	...	582	4	605
Vertebrata	1,089	12	6	...	204	1,311
Invertebrata	6,659	29	...	...	1,355	8,043
Fossils and Minerals	303	...	2,973	...	177	3,453
Ethnological	761	180	14	...	...	955
Miscellaneous	22	1	...	582	...	605
	8,834	222	2,993	582	1,736	14,367

APPENDIX G.

THE AUSTRALIAN MUSEUM.

STATEMENT of Receipts and Expenditure for the Year ended 30th June 1928.

Receipts.	Endow- ment Account	Public Account.	Total.	Expenditure.	Endow- ment Account.	Public Account	Total.
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
To Balance brought forward—				By Salaries—			
Commercial Banking Co.	2 17 0			Director	1,100 0 7		
Advance Account	24 15 0			Secretary	800 0 7		
Petty Cash	10 0 0		37 12 0	Clerical Staff	922 5 6		
Treasury Appropriations—				Library Staff	28 11 3		
Salaries and Adjustments		17,150 12 11		Scientific Assistants, Cadets, &c.	6,461 1 11		
State Superannuation—				Preparators	2,145 0 1		
Trustees Contributions		1,094 19 6		Mechanics	1,263 11 5		
Contingencies		4,579 2 10	22,824 15 3	Attendants	3,506 6 10		
Refund—Overpayment of Over- time		0 11 9	0 11 9	Relieving Night Attendants	194 4 6		17,150 12 11
Statutory Endowment	1,000 0 0		1,000 0 0	Superannuation—			
Sales of Publications—				Trustees Contributions	1,094 19 6		1,094 19 6
Magazine Sales and Subs.	372 19 1			Contingencies—			
Advertisements	180 10 0			Overtime and Sunday Pay	1,699 18 9		
Binding Cases	2 12 8			Family Endowment Contribu- tions	133 4 1		
Postcards—Sales	102 8 3			Materials and Incidental Ex- penses	500 0 0		
Other Publications, "Records," &c.	29 6 5		688 6 5	Book-binding	375 0 0		
Sales of Photographs	0 10 0		275 8 0	Insurance	300 0 0		
Donations	275 8 0		275 8 0	George Smith Mineral Col- lection	250 0 0		
Interest—				Centenary Celebrations	100 0 0		
City Council—Funds on deposit	8 5 0			Pensions	156 0 0		
Commonwealth 5% Loan	10 0 0		19 5 6	Compassionate Allowance	65 0 0		3,579 2 10
State Funded Stock 5½%	1 0 6		400 0 0	Refund to Treasury—			
Commonwealth Loan—				Overpayment of Overtime	0 11 9		0 11 9
Investment matured	400 0 0		400 0 0	Statutory and Additional Endow- ment—			21,825 7 0
Sundry Debtors—				Stores, Supplies and Services—			
Telephone calls overcharged, refunded	14 6 11		14 6 11	Scientific Administration	50 11 10		
Sundry Refunds—				Artificers	26 11 9		
Electric Light	12 17 6			Taxidermists	28 11 3		
Freights and Charges	2 7 0			Articulators	27 0 1		
Expenses—Field Collecting	1 13 0		17 3 5	Printer	18 8 3		
Employees Superannuation Contribution	0 5 11		12 15 6	Working Expenses	151 9 4		303 1 6
Sale of Assets—				University Fees—Cadets	8 8 0		
Obsolete Material	12 15 6		12 15 6	Photography and Slides	64 13 5		
Miscellaneous—				Collecting Specimens	44 13 7		
Telephone Trunk Calls	0 2 10			Purchase of Specimens	378 13 3		
Royal Australian Ornitholo- gists' Union	0 5 0			Preservation of Specimens	37 12 2		
Exchange and Bank Discount	1 6 8			Scientific Equipment	54 14 11		588 15 4
Key Fines	0 6 0			Freights, Cartages and Charges	49 4 1		49 4 1
Loan of Collecting Material	4 14 6		7 10 0	Lectures	141 2 10		
Sale of Old Stores	0 15 0			Library Administration	0 18 9		
				Library—Purchase of Publica- tions	445 15 7		587 17 2
				Magazine, Publication and Dis- tribution	383 2 5		
				Magazine Advertising	130 6 9		513 9 2
				Publicity	8 12 4		8 12 4
				Postcards—Publication	11 17 0		
				Postcards—Advertising	2 15 0		14 12 0
				Publications, "Records," &c.	430 14 2		430 14 2
				Centenary Celebrations	25 8 5		
				Telephone Charges	1 9 9		
				Gallery Exhibits	33 16 11		
				Refund to Treasury—			
				Sale of Assets, &c.	24 9 11		
				Sundry Repairs and Maintenance	13 4 8		
				Electric Repairs and Renewals	12 10 7		
				Electric Light, Power and Gas	145 7 1		
				Office General Expenses	114 8 7		
				Stationery	68 12 7		
				Electric Fittings and Installa- tions	5 3 4		
				Fixtures and Fittings	12 7 7		
				Office Furniture	8 9 11		
				Office Equipment	8 0 0		
				Plant and Tools	6 12 4		480 1 8
				State Funded Stock—5½%— Re-investment of Funds	400 0 0		400 0 0
				State Superannuation Board— Employees' Contributions	0 5 11		0 5 11
							25,202 0 4
				By Balance, Cash in Bank—			
				Commercial Banking Co., Ltd.	60 14 5		
				Advance Account	25 0 0		
				Petty Cash	10 0 0		95 14 5
			£ 25,297 14 9				£ 25,297 14 9

I have examined the books, accounts and vouchers of the Australian Museum, and I hereby certify that the above is a correct statement of Receipts and Expenditure for the financial year ending 30th June, 1928.

(Sgd.) JAMES B. CRUM,
Inspector of Public Accounts.

APPENDIX H.

THE AUSTRALIAN MUSEUM.

REVENUE ACCOUNT.

Dr.

Period 1st July, 1927, to 30th June, 1928.

Cr.

	£	s.	d.	£	s.	d.	By Interest—	£	s.	d.	£	s.	d.
To Scientific Administration—							Funds Invested—						
Scientific Staff, Salaries, &c., Overtime, Stores	8,280	10	7				Sydney City Council	...	...	8	5	0	
Articulators—Salaries, &c., Overtime, Stores	904	11	10				New South Wales Government	...	...	12	0	6	
Taxidermists—Salaries, &c., Overtime, Stores	1,303	0	1				Commonwealth Loan	...	...	9	3	4	
Collecting Specimens	36	0	7										29 8 10
Preservation of Specimens	41	9	3				Donations	...	...				8 8 0
Freights and Charges, Specimens	54	14	4				Sales of Publications—	...	...		
Photography and Slides	146	0	9				Museum Magazine	...	...	375	8	5	
				10,766	7	5	Museum Postcards	...	...	106	2	9	
Office Administration—							"Records," &c.	...	...	38	19	7	
Office Staff, Salaries, &c.	1,810	14	7				Balance	...	...				520 10 9
Publicity	42	11	0										22,462 3 2
General Expenses	144	13	9										
Stationery	111	6	3										
Insurances	273	5	3										
Electric Light and Gas	125	14	10										
				2,508	5	8							
Library Administration—													
Salaries, &c., and Sundry Expenses	1,183	9	10										
				1,183	9	10							
General Administration—													
Artificers—Salaries, &c., Stores	726	0	9										
Printing Office—Salaries, &c., Stores	444	4	4										
Attendants—Salaries, &c., Stores	5,269	8	4										
Working Expenses—Stores and Supplies	236	0	7										
Building Repairs and Maintenance	133	15	3										
Electric Fittings, Repairs and Maintenance	41	6	4										
				6,850	15	7							
Family Endowment Contributions				133	4	1							
Centenary Celebrations, cost of Memorial Tablet, &c.				125	18	9							
Lectures, Fees and Expenses				210	6	6							
Pensions				156	0	0							
Compassionate Allowance				65	0	0							
Depreciation—Furniture, Equipment, Plant				136	5	6							
Publications, Magazine—													
Cost of Publishing and Distributing	606	0	3										
Less Stocks on hand	249	11	3										
				356	9	0							
Postcards, Initial Stocks, &c.	300	18	0										
Less Stocks on Hand	234	0	9										
				66	17	3							
"Records"—Cost of Publishing and Distributing	461	11	2										
				461	11	2							
				£	23,020	10	9				£	23,020	10 9