

1941.

(SECOND SESSION.)

PARLIAMENT OF NEW SOUTH WALES.

ANNUAL REPORT

OF THE TRUSTEES OF THE AUSTRALIAN MUSEUM

FOR THE YEAR 1940-1941.

Ordered to be printed, 19 November, 1941.

ADOPTED BY THE BOARD OF TRUSTEES, 14TH AUGUST, 1941.

To His Excellency the Governor,—

The Trustees of the Australian Museum have the honour to submit to Your Excellency their eighty-seventh Annual Report for the year ended 30th June, 1941.

1. Trustees.

At the December Board Meeting Mr. F. S. Mance was re-elected President for the year 1941.

Professor Eric Ashby, D.Sc., A.R.C.S., D.I.C., was elected a Trustee on 12th July, 1940, to fill the vacancy resulting from the appointment of Mr. F. S. Mance as Crown Trustee.

Mr. G. M. Goldfinch was elected a Trustee on 12th December, 1940, to fill the vacancy caused by the resignation, on 27th August, 1940, of Dr. A. B. Walkom.

The Trustees suffered a sad loss in the death on 1st April, 1941, of the Hon. Dr. F. E. Wall, M.L.C., who had been a Trustee since October, 1926.

Sir Samuel Walder, Kt., M.L.C., was elected a Trustee on 8th May, 1941, to fill the vacancy caused by the death of Dr. Wall.

During the year leave of absence from Trustees' meetings was granted to Dr. G. H. Abbott on account of ill-health, and to Professor W. J. Dakin and Professor E. Ashby on account of National Service.

A list of the Trustees as at 30th June, 1941, is given in Appendix A.

2. Staff.

Towards the end of 1940 Dr. C. Anderson, who had been Director since 1921, entered on leave prior to retirement.

Dr. A. B. Walkom was appointed Director of the Museum and entered on duty on 1st November, 1940.

Mr. W. T. Wells, Secretary of the Museum since 1924, retired from the Service on 16th January, 1941.

Consequent on the non-replacement of the Secretary, certain staff rearrangements were made. The By-laws were amended to provide for the Director assuming those responsibilities of the Secretary set out therein; Mr. J. R. Kinghorn was appointed Assistant to the Director, with responsibility for the care of the zoological collections; Mr. T. Hodge-Smith was given control and direction of the work of the Preparatorial Staff; and Mr. R. D. Gill was appointed Accounts Clerk.

Mr. H. O. Fletcher was promoted to First Class Scientific Assistant in charge of Palaeontology.

The Director was elected President of the Linnean Society of New South Wales for the year 1941-42.

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Mr. G. P. Whitley was elected President of the Royal Zoological Society of New South Wales.

Miss E. C. Pope gained the degree of Master of Science in the University of Sydney.

The Warden of the New England University College, Armidale, applied for the services of Miss Pope for a period of three months during the absence of the Lecturer in Biology on military service, and leave of absence was granted to Miss Pope, in order that this application might be granted.

Messrs. G. P. Whitley and K. C. McKeown were granted permission to prepare books on Australian Fishes and Australian Insects respectively for publication by The Royal Zoological Society of New South Wales.

Mr. A. A. Livingstone, Second Class Scientific Assistant, entered on leave in March, prior to resignation from the Service, and Miss E. Bramell, M.A., Second Class Scientific Assistant, resigned on 1st May, 1941.

Mr. J. Kingsley, Assistant Articulator, resumed duty on 20th June, 1941, after twelve months' leave of absence during which he attended a school for preparators at the California Academy of Sciences under a grant made by the Carnegie Corporation of New York.

Messrs. T. Glazebrook (Night Attendant) and J. Lewis (Attendant) enlisted and are serving with the Australian Imperial Forces abroad.

3. Honorary Staff.

Mr. A. J. Marshall was reappointed Honorary Ornithologist for a term of five years.

4. Field Work and Collecting.

Mr. F. D. McCarthy accompanied Professor Elkin on an examination of groups of aboriginal rock carvings in the Burragurra-Wollombi district. Mr. McCarthy also visited the Warrah Sanctuary at Pearl Beach and mapped a series of aboriginal stone arrangements.

Miss J. Allan visited the Clarence River district for the purpose of making colour sketches of Opisthobranchs.

5. Gallery Improvements and Exhibits.

Improvements in exhibition of specimens have been carried out in various sections, including Mammals, Lower Invertebrates, Insects, Fossils and Anthropological material. Special exhibits have from time to time been placed on view in the Main Hall illustrating items of topical interest. These have included the Police dog "Tess," and exhibits of specimens illustrating the articles in current issues of the *Museum Magazine*.

all collections and gallery matters

6. Library.

During the year 419 volumes were added to the library, besides a number of loose parts and pamphlets. As would be expected, the unsettled condition of world affairs has affected the exchange of publications with many countries. It is pleasing to note, however, that publications from various learned institutions in the United Kingdom continue to arrive with a remarkable degree of regularity.

The library, though primarily one for the Museum staff, has been availed of by many others engaged in research work. Considerable help has been afforded many in other States. Apart from these the library has also been utilised by the Press and by commercial artists.

As in previous years the Librarian has rendered editorial assistance with the publications of this Museum.

7. Publications.

During the year Volume VII, Parts 5 to 8, of the "Australian Museum Magazine," were issued, and Volume XXI, No. 1, of the "Records of the Australian Museum," together with an index to Volume XX was completed and almost ready for distribution at 30th June.

Owing to shortage of paper the number of printed copies of each issue of the Magazine was reduced from 2,000 to 1,200.

8. Lectures.

The usual Popular Science Lectures and School Lectures were delivered. In the 1941 series of Popular Science Lectures the practice has been revived of having some of the lectures delivered by lecturers who are not members of the Museum staff. By this means it is hoped to widen the interest in these lectures.

In May a series of monthly screenings of natural history films was instituted in place of the gallery talks to which the public had not responded satisfactorily. Attendances to date indicate that these film screenings are likely to prove popular with the visiting public.

Mr. K. C. McKeown, Assistant Entomologist, delivered a short course of Nature Study Lectures to a summer school for Teachers of Subsidised Schools in January.

Attendances at the various series of lectures were as follows:—

12 Popular Science Lectures	1,846
10 School Lectures	2,242
2 Natural History Film Screenings	325

A number of members of the staff delivered voluntary talks to various scientific and educational bodies, as well as giving a number of broadcast talks on popular and educational subjects.

9. Carnegie Grant and Film Work.

Four additional films were completed by officers of the Museum and copies delivered to the Visual Education Committee of the Department of Education. Five other films are approaching completion. Copies of all the films made under the Carnegie Grant have been purchased by the Visual Education Committee of the Tasmanian Department of Education.

10. Buildings and Equipment.

No funds were made available for any work to be done on the extensions of the building in accordance with plans that had been submitted by the Government Architect and approved by the Trustees. In view of this, representations were made concerning the urgent need for additional and more suitable storage accommodation, as a result of which the Government Architect put in hand the preparation of sketch plans for a plain brick storage building of three storeys. It is hoped that some result may be obtained from these representations.

In order to provide means of improving the existing storage space and of remodelling much of the gallery exhibition space, an application was made for the services of three carpenters and/or labourers under a grant from Unemployment Relief Funds, but this was deferred for later consideration by the Works Co-ordination Committee.

Proposals were also submitted to the Department of Works and Local Government for improvement of the College-street Entrance to the Museum and of the arrangements for entrance and exit by the public. Sketch plans have been prepared in accordance with these proposals.

The Department of Works and Local Government carried out a number of improvements to the Board Room and Offices and also a number of essential works, including all external paint work. Two sections of the ceiling of the Mammal Gallery fell during the year; a thorough inspection revealed the necessity for repairing many of the panels, and arrangements have been made by the Department for replacement of the whole of the ceiling in this gallery.

11. Finance.

The total nett expenditure from Consolidated Revenue Fund for the year (excluding Statutory Endowment of £1,000) was £19,685 19s. 2d., compared with £17,871 17s. 0d. last year. Nett expenditure from Trustees' Account Funds (including Statutory Endowment) was £1,014 11s. 1d., compared with £1,264 8s. 5d. for 1939-40.

The expenditure for the year from Trustees' Account (Carnegie Corporation Grant) was £48 14s. 4d.

The cash balance in Trustees' No. 1 Account at 30th June, 1941, was £476 8s. 10d., that in the Trustees' Carnegie Corporation Account £117 6s. 8d.

Statement of Receipts and Payments for the year will be found in Appendix B.

12. Public Attendances.

Statistics of attendances for the years 1932-33 to 1940-41 are appended.

	Week-days.	Sundays.	Total.
1932-33	166,749	53,901	220,650
1933-34	136,066	48,478	184,544
1934-35	150,481	58,734	209,215
1935-36	145,916	56,501	202,417
1936-37	145,860	52,283	198,143
1937-38	157,161	54,809	211,970
1938-39	155,751	52,154	207,905
1939-40	170,354	63,907	234,261
1940-41	194,249	75,994	270,243

The increased attendance for the year is very gratifying.

13. Publicity.

Throughout the year advantage has been taken of opportunities offering for the display of specimens illustrating the educational value of the Museum. Window displays have been installed from time to time in windows at the Government Printing Office, the Government Tourist Bureau, Sydney Ferries Ltd., St. James Railway Station, and Wynyard Railway Station.

Assistance was also given in Empire displays at the Royal Empire Show, 1941, particularly in the displays of Canada, Fiji, and the Mandated Territories.

14. National Emergency Services.

Arrangements were completed whereby the most valuable material in the Museum could be collected at short notice and transferred to a place of safety in the event of a national emergency.

An organised scheme has been worked out for protection of staff and of buildings in the event of an emergency, and weekly practices have been instituted in order that the whole of the staff may become accustomed to the procedure necessary in an emergency.

15. The Collections and Scientific Work.

During the year special attention has been paid to the care of the collections. Perhaps the greatest need of the Museum at the present time is additional storage space, and on this account the existing space has been surveyed with a view to re-arrangement in order that the best possible use may be made of the available accommodation. As a result some of the stored collections have been moved, and advantage has been taken of any such removal to ensure that the stored collections are in good order.

The quarters of the staff in charge of Lower Invertebrates and of the preparatorial staff have been re-arranged, and they are now more convenient and the conditions are conducive to more efficient work.

A large portion of the work of the scientific staff in all departments is occupied in work that may be described as routine. This includes attention to the collections in the care of each department, including the collections in store as well as those on exhibition, and preparation of reports and replies to inquiries.

The reports and replies to inquiries occupy much time. Inquiries come mainly from the general public and are received by letter, by telephone, and by personal application. They number some thousands per annum, and many of them require considerable investigation before an adequate reply can be prepared. Reports are furnished on various subjects for Commonwealth and State Departments, for scientific and educational societies and institutions, and for research workers both in Australia and overseas. The total amount of time occupied by these routine activities varies from year to year.

The staff also contributes to the educational activities in which the Museum is involved, including lectures to teachers and to school pupils, school broadcasts, contributions to the Australian Museum Magazine, and preparation of Natural History films for the Visual Education Committee of the Department of Education.

Birds. (J. R. Kinghorn in charge.)

Additions to the collection have been very few, chiefly due to the fact that the activities of collectors have been greatly curtailed on account of war conditions.

During the late winter and spring, mould again seriously attacked birds, eggs and cabinets in the basement. This was dealt with and it is now hoped that, as a result of improved ventilation and removal of partitions, the danger of mould attack has been minimised. Cabinets containing birds from New Guinea and Pacific Islands and the Australian parrots have been removed to the basement. Birds previously housed in boxes in the basement have been transferred to a new steel cabinet. The MacGillivray Collection of eggs has been examined but has not yet been replaced in the cabinets.

Many students of ornithology visit the department and receive assistance in their examinations of birds and with literature.

Special information has been furnished on the economic status of birds and general faunal matters, including the question of open season and importation of birds likely to become pests.

Reptiles and Batrachians. (J. R. Kinghorn in charge.)

The few specimens received during the year have all been identified and added to the collections. A thorough examination was made of certain genera of snakes, the results being set aside for publication at a later date. The reptiles collected by the Simpson Desert Expedition were examined and the report will be published in due course.

Mammals. (E. Le G. Troughton in charge.)

Interesting accessions which had some bearing on medical and economic investigations in Queensland and New Guinea included a series of wallabies, rodents and bats from Dr. C. Gunther, Bulolo; a series of rats submitted by Dr. E. H. Derrick in connection with investigations into "Q" fever and Weil's Disease; and a series of rats, sent by Dr. W. G. Heaslip, who is dealing with cane-field problems. Other acquisitions included Matschie's Tree Kangaroo from the Huon Peninsula, New Guinea; a Red Kangaroo from the Taronga Park Trust; and a small collection of marsupials and bats from Dr. I. M. Mackerras.

In the exhibition galleries re-arrangement of the Australasian section of the Mammal gallery was undertaken, the entire kangaroo section being dealt with and the two dolphin casts completely reset.

Mr. Troughton has acted as the representative of the Museum on the Fur Farming Committee convened in April, 1941, by the Under Secretary, Department of Agriculture, for the purpose of encouraging fur farming in New South Wales.

Research has been limited as a result of the attention given to the collections and curatorial work. For the Solvol Animal Book descriptions of fifty-two indigenous mammals were prepared; further work was done for the publication "Furred Animals of Australia"; and records of dimensions were made of individual specimens and of series, and these, together with notes on the specimens, will be used in future publication of results of research work.

Skeletons. (E. Le G. Troughton in charge.)

Accessions of special interest included a human skull from Norfolk Island, presented by Mr. A. J. McGrath; the skull of a grey kangaroo from Cunnamulla, Q.; an immature dental series of skates and shark jaws from South Africa, sent by Dr. F. G. Cawston; and the skull of a crossbred dingo from the Bega district, N.S.W., presented by Mr. F. Kewin.

Fishes. (G. P. Whitley in charge.)

Accessions included more than 1,000 specimens which have been added to the reference collections. Noteworthy donors included Messrs. Melbourne Ward, Hugh Ward, A. A. Cameron, Captain Knud Moller, and the C.S.I.R. Marine Biological Laboratory at Cronulla. The material presented by Rev. W. S. Chaseling in 1939 was identified, as also was the collection of fishes made at Shark's Bay by Mr. Whitley in 1939.

Research has included the determination of many previously unidentified specimens in the "Endeavour" and reference collections. Commercially important fishes, such as herrings, anchovies, mullet, and the young stages of several kinds of morwong have been revised in some detail with a view to later publication of the results. A paper on freshwater fishes of Central Australia was prepared for inclusion in the report of the Simpson Desert Expedition. Preparatory work has been done for Parts II and III of "The Fishes of Australia," of which Part I was published in July, 1940.

Insects and Arachnids. (A. Musgrave in charge; K. C. McKeown and Nancy B. Adams, Assistants; Dr. G. A. Waterhouse, Honorary Entomologist.)

Several large collections were presented to the Museum, the most notable being the J. Parkes collection of Lepidoptera and the H. Ashton collection of Cicadidae, which contains the

author's types. The K. K. Spence collection of Coleoptera, which was acquired by the Museum, is a valuable addition to the collections.

Mr. Musgrave carried out research on the Pentatomidae of Australia and the Pacific Islands, and also investigated the occurrence of certain caterpillars whose hairs caused papulo-urticarial rashes on men working under gum trees infested by the insects. A paper on this latter investigation is ready for publication.

Mr. McKeown has conducted researches on Australian Cerambycidae; the Food of Trout in Australia; the alleged destruction of fish by Cormorants; and the fauna of birds' nests.

Dr. Waterhouse has prepared several short papers on Museum material, and has others in preparation. One of the most important additions was a new butterfly from Australia. A collecting trip to Burleigh Heads resulted in the addition of a number of specimens to the collection.

Shells. (T. Iredale in charge; Joyce Allan, Assistant.)

The Reference collection is still in course of complete re-arrangement, the species being examined and systematically re-arranged. The spirit house collections have been completely overhauled and are now in excellent condition. A considerable amount of research work has accompanied the examination of the collections and a number of papers have been published, both by Mr. Iredale and Miss Allan. Particular attention has been paid to two important groups—Thaisidae and Mitridae—and the results will be published later. A collection of land shells of Papua brought by Rev. H. K. Bartlett was studied, and a list of the literature prepared. Miss Allan has worked on the Opisthobranchiate Mollusca and the Lamellariidae, and in connection with this study she visited the Clarence River for the purpose of making colour sketches of these animals whose preservation is very difficult.

Important additions to the collection included a fine series of Bali shells from Mr. T. Dranga, and much material from the Clarence River beaches sent by Mr. A. A. Cameron.

Lower Invertebrates. (F. A. McNeill in charge; A. A. Livingstone and Elizabeth C. Pope, Assistants.)

Principal donations were a collection of named worm parasites from sheep presented by Mr. I. W. Montgomery, and a series of parasitic worms from various Australian native animals, presented by the executors of the estate of the late L. Gallard. The extensive collection of Australian Echinodermata received the previous year from Dr. H. L. Clark was examined and registered.

Two visitors who worked in the department were Mr. M. W. F. Tweedie, Curator of the Raffles Museum, Singapore, who worked on the crustacean collections for a period of six weeks, and Miss M. Hardy, B.Sc., from the University of Queensland, who worked on the Sponge collection.

A considerable portion of the gallery exhibits was re-organized. Collaboration with Mr. R. A. Johnson on "Destruction of Timber by Marine Organisms" was continued, and supplementary Report No. 2 on this subject was completed. Preliminary work was done on the collection of Turbellaria made by the British, Australian and New Zealand Antarctic Research Expedition.

Miss Pope was on loan to the New England University College, Armidale, for a period of three months.

Mr. McNeill did a considerable amount of work editing and titling films which are still incomplete.

Minerals. (T. Hodge-Smith in charge; R. O. Chalmers, Assistant.)

Additions for the year numbered only ninety-five specimens, and included a large specimen of manganhedenbergite presented by the Broken Hill South Mine Ltd., some fine arborescent copper from Mount Isa Mines Ltd., stilbite and pyroxmalite from Broken Hill, presented by Mr. M. Mawby, and a small collection of American minerals from Mr. G. Smith.

Re-arrangement of the display in the wall cases has been completed and the relabelling is proceeding. Preliminary work has been commenced on a relief model of the Sydney district which, when completed, will be displayed in the mineral gallery.

Research work included crystallographic studies of mimitite and bustamite from Broken Hill and chemical analyses of various wolframites.

Since December, 1940, Mr. Hodge-Smith has been in charge of the work of the preparators, and he has also been appointed Building Warden for the Museum in connection with National Emergency Services.

Rocks. (T. Hodge-Smith in charge; R. O. Chalmers, Assistant.)

The most important acquisitions have been a series of building stones presented by the Kanimbla Granite Company, F. Arnold and Sons, and Gamble and Dreiln Pty. Ltd., and specimens of four meteorites—Murnpeowie (South Australia), Moorleah (Tasmania), Tawallah Valley (Northern Territory), and Pinnaroo (South Australia). Of these meteorites the Moorleah and Tawallah Valley were analysed and described, Dr. A. B. Edwards carrying out mineragraphic studies of the latter. Mr. Chalmers completed a paper on the Petrology of the Five Islands, which has been included in the "Records."

Fossils. (H. O. Fletcher in charge.)

Important acquisitions include a series of figured specimens of fossil insects described by the late R. J. Tillyard, some Lower Ordovician graptolites from Narrandera, types of a new brachiopod from New South Wales, and a series of fossils from the Upper Marine Series at Rylstone, which includes a new genus of gastropod.

Considerable re-arrangement of the storage of the collections was carried out, and a search made for types of described species, many of which appear to have been mislaid.

Research has been carried out on the genus *Conocardium* and on revision of the genus *Nuculana* and a new genus. Papers on both these subjects are approaching completion.

Mr. Fletcher spent about nine weeks on military duty with the 1st Anti-Aircraft Brigade at George's Head.

Anthropology. (F. D. McCarthy and Elsie Bramell (resigned 1st May, 1941), Assistants.)

Accessions for the year totalled 971, noteworthy donations including seventy-three microliths from Singleton (Mr. W. J. Enright), twenty-four stone implements from the Mid-Darling River (Mr. L. O'Donahoo), a Jivaro preserved head (Mr. W. G. Preston), and Pacific Island material.

A large number of stone implements was collected at Belambi. Mr. C. C. Towle has arranged to bequeath to the Museum his fine collection of South-East Australian stone implements.

Work in the exhibition galleries included the preparation of Pacific Island fishing gear, and additions to the "Study of Man" exhibit.

Short papers were completed for publication on stone-implement sites at Yamba and Crescent Head, and on a quarry at Moor Creek, Tamworth. Additional information was gathered for work on the stone artifacts of Australia.

Arrangements were nearly completed for an exhibition to demonstrate the application of Australian Aboriginal Art Motifs to be held in August, 1941.

Numismatics.—(F. D. McCarthy and Elsie Bramell (resigned 1st May, 1941), Assistants).

Accessions totalled 1,350 coins, medals and tokens, including 130 ancient Roman coins donated by Mr. R. Klein, and the balance of the Mitchell Library transfer collection. The card-cataloguing of the latter collection was completed.

Department of Preparation. (T. Hodge-Smith in charge; G. C. Clutton, Articulator; H. S. Grant, Taxidermist; J. Kingsley, J. H. Wright and W. Barnes, Assistants.)

During the year the preparators were brought under the control and direction of Mr. T. Hodge-Smith.

More than 2,100 photographic prints, 208 negatives and 116 lantern slides were prepared. Ten casts were made and coloured. One wallaroo was mounted, forty-six study skins and twenty-one skulls were prepared. Considerable time has been spent on re-arrangement and renovation of the Spirit House collections. Several films were completed and a number of others are in various stages of preparation.

Special work in the galleries included re-arrangement of portion of the Mammal Gallery, preparation of giant crab and other exhibits for the Lower Invertebrate Gallery, and renovation of large fossil vertebrates. The police dog "Tess" was mounted for the Commissioner of Police, and an albino kangaroo for the Taronga Park Trust. Two wallabies were mounted for the Matson Line, and a red kangaroo prepared for the Nottingham Museum.

Mr. Clutton assisted in some confidential Government work and Mr. Grant helped in the initial work of the Papier Maché Auxiliary of the Red Cross Society.

Many exhibits were prepared for the window displays of Museum material in the city, and a considerable number of specimens were lent to business houses for window displays.

Mr. Kingsley was absent for practically the whole year, attending a school for preparators at San Francisco, U.S.A.

Accessions for the year 1940-41 totalled:—

Vertebrata	1,375
Invertebrata	27,005
Geological	607
Ethnological	2,322
Miscellaneous	864
	<hr/> 32,173

Dr. Waterhouse Collection 471

Total 32,644

Papers and articles prepared and published during the year 1940-41 totalled:—

<i>Records of the Australian Museum</i>	12
<i>Australian Museum Magazine</i>	30
Other Publications	15

The Common Seal of the Museum was hereunto affixed by Order of the Board this twenty-eighth day of August, 1941.

F. S. MANCE, President.

A. B. WALKOM, Director.

APPENDIX A.

TRUSTEES OF THE AUSTRALIAN MUSEUM AT 30TH JUNE, 1941.

Crown Trustee	F. S. Mance, A.I.C.A.
Statutory	His Honour the Chief Justice. The Hon. the Colonial Secretary. The Hon. the Attorney General. The Hon. the Colonial Treasurer. The Auditor General (Mr. John Spence, C.M.G.) The President of the Medical Board.
Appointed	The Hon. the President of the Legislative Council. The Crown Solicitor. The Surveyor General and Chief Surveyor. The Hon. the Minister for Works. The Hon. the Minister for Education.
Elective	G. H. Abbott, B.A., M.B., Ch.M. E. C. Andrews, B.A. C. Gordon MacLeod, M.A., M.D., Ch.M. G. A. Waterhouse, D.Sc., B.E., F.R.E.S. Professor A. N. Burkitt, M.B., B.Sc. Professor W. J. Dakin, D.Sc. F. W. Marks, C.B.E., F.C.A. (Aust.). H. B. Mathews, B.A. Frank B. Spencer. Professor Eric Ashby, D.Sc., A.R.C.S., D.I.C. G. M. Goldfinch. Sir Samuel Walder, Kt., M.L.C.

To His Excellency the Governor -

The Trustees of the Australian Museum have the honour to submit to Your Excellency their ninety-first Annual Report for the year ended 30th June, 1945.

1. TRUSTEES.

At the December Meeting Mr. F. S. Manoe, A.I.C.A. was unanimously re-elected President of the Board of Trustees for the year 1945.

Further leave of absence was granted to Professor A. N. Burkitt, Dr. G. A. Waterhouse, and Professor W. J. Dakin. Professor Eric Ashby was also granted leave of absence on account of his appointment for twelve months as Scientific Attache to the Australian Legation at Moscow.

A list of the Trustees at 30th June, 1945, is given in Appendix A.

2. HONORARY CORRESPONDENTS.

Dr. H. O. Lethbridge, Honorary Correspondent, died on 5th November, 1944.

Mr. Frank W. Hill and Mr. O. Le M. Knight were elected Honorary Correspondents of the Museum in recognition of their valuable services to the institution. Mr. Hill has completed the arrangement of the Victory Stamp Collection for exhibition. Mr. Knight, in addition to presenting a series of Permian fossil insects, has done valuable work in sorting and classifying the extensive collection of fossil insects.

3. STAFF.

Dr. Charles Anderson, former Director of the Museum, died on 25th October, 1944.

Mr. T. Hodge-Smith, First Class Scientific Assistant, in charge of the Department of Mineralogy and Petrology, and the Department of Preparation, died suddenly on 8th June, 1945. He had been in the service of the Museum since 1921 and was one of the ablest mineralogists Australia has had.

The services of Mr. E. Le G. Troughton, First Class Scientific Assistant, were made available on loan to the Commonwealth Scientific Liaison Bureau for a period of about three months, for work in connection with rat problems for the U.S. Typhus Commission in New Guinea and adjacent islands. Mammal-hosts and mite-vectors of scrub typhus were collected and a study was made of the ecological factors in various operational areas.

Mr. T. Iredale, First Class Scientific Assistant, in charge of the Department of Conchology, retired, having been a member of the staff since 1924.

Miss G. E. Johnstone, Clerk, retired after twenty years of service at the Museum.

Mr. T. Glazebrook, Night Attendant, was discharged from the Army and resumed duty. Mr. J. Lewis, Attendant, was also discharged from the Army and resumed duty, but subsequently resigned from the Public Service. Mr. H. M. Arnold, Night Attendant, resigned from the service.

Mr. E. Le Troughton paid two visits to Mt. Irvine and collected a valuable series of mammals.

Miss E. C. Pope accompanied Professor Dakin on several field trips, and also conducted a collecting party over the tidal flats at Gunnamatta Bay, Port Hacking.

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4. HONORARY STAFF.

Mr. A. J. Marshall was reappointed as Honorary Ornithologist for a further period of five years.

Mr. T. Iradale was appointed Honorary Zoologist for a period of five years from 25th May, 1945.

5. FIELD WORK.

Mr. T. Hodge-Smith visited Nundle and examined the occurrence of scheelite crystals.

Mr. H. O. Fletcher paid two visits to Geurie, in company with Mr. C. Robertson, M.L.A., for the purpose of investigating previously unrecorded cave-earth deposits of Pleistocene age. A collection was made of important vertebrate fossil remains from these deposits. The Wellington Caves were also visited and fossil remains from newly developed caves were identified.

Mr. Fletcher visited the Kempsey-Taree District to examine the Permian succession and collect fossils from various horizons in the series. He also visited the Boorook-Drake District in Northern New South Wales, to examine the complete Permian sequence there, paying special attention to the junction of the Permian beds with the underlying Carboniferous rocks. During this visit the Permian beds in the Silverwood and Lucky Valley area in southern Queensland were inspected with the object of correlating them with the succession in the Drake-Boorook area.

In June 1945, Mr. Fletcher paid a visit to Tibbooburra and Lake Callabonna, collecting Jurassic and Cretaceous fossils from Tibbooburra and examining deposits of vertebrate remains at Lake Callabonna.

Mr. F. D. McCarthy recorded groups of aboriginal rock engravings and inspected aboriginal relics at Faulconbridge and Hazelbrook. He also inspected and made records of a number of groups of rock engravings in the Somersby district, and at Brookvale. In April 1945, he visited Port Macquarie to make inquiries about the local aborigines and to collect stone implements from Point Plomer in continuation of his studies on the implements of the coast of New South Wales.

6. GALLERY IMPROVEMENTS AND EXHIBITS.

The restoration of the extinct Giant Kangaroo (*Palorchestes*), was placed in the galleries and constitutes a notable exhibit. A series of life-size models of spiders was also completed and placed on exhibition.

Casts were made, for exhibition, of a specimen of a rare Oar-fish washed ashore at Maroubra, and also of a large Salmon, a record in size for Eastern Australia.

Some specimens of rare Birds of Paradise from New Guinea were presented to the Museum and some of them mounted for exhibition purposes.

A large collection of birds of British Columbia was received from Mr. W. J. Plowden-Wardlaw, Honorary Correspondent.

An exhibit illustrating the life cycle of the Tapeworm has been prepared.

7. LIBRARY.

During the year 250 volumes were added to the Library, apart from a number of loose parts and pamphlets. The year has seen a partial resumption of exchange relationships with overseas institutions.

The library, though primarily one for the Museum staff, has been utilised by many outside research workers as well as Commonwealth and State departments, both in New South Wales and in other States. Its resources, also, have been directly linked with the prosecution of the war. The Press, publishers, students, and artists realize the assistance that only such a specialized library can afford, and make considerable use of the facilities available.

As in previous years the Librarian has rendered editorial assistance with the publications of the Museum.

8. PUBLICATIONS.

During the year, Volume VIII, Parts 8 to 11 of the "Australian Museum Magazine" were issued.

Volume XXI, No. 6 of the "Records of the Australian Museum" was published, and the final part of Memoir VIII was issued.

A further edition of the Guide to the Contents of the Australian Museum was issued. It is gratifying to record the continued interest of the public in this Guide, as indicated by the regular demand for it. The publication of this edition was made possible by the Commonwealth Book Sponsorship Committee which sponsored the publication thus making it possible to obtain the necessary paper from the Commonwealth reserve pool.

9. LECTURES.

The Popular Science Lectures were continued and attendances continued to be satisfactory.

The series of Lectures to school children again proved to be of considerable interest to the pupils, and many expressions of appreciation were received.

The attendances at the lectures were as follows:-

13 Popular Science Lectures	1268
12 School Lectures	2596



Members of the Staff also delivered a number of voluntary lectures to various scientific societies and other institutions.

10. BROADCASTING.

During the latter half of 1944 several members took part in the series of Junior School Broadcasts arranged by the Australian Broadcasting Commission. In 1945 a change was made by the Commission with the object of having all these broadcasts delivered by the one announcer, and consequently they are now delivered by Mr. J. R. Kinghorn and prepared jointly by Mr. Kinghorn and Mr. K. C. McKeown in consultation with other members of the Staff. In association with these broadcasts Mr. Kinghorn has been responsible for the institution of Young Naturalists' Clubs in schools, and there are now some eighty of these Clubs with a total membership of approximately 2800.

From time to time members of the staff contribute to special series of broadcasts dealing with natural history or Museum activities.

11. CARNEGIE GRANT AND FILM WORK.

The Carnegie Grant was exhausted in completion of some of the film work in hand. The Trustees have approved of some continuation of the work of preparing natural history films as an addition to the educational work of the Museum. Such films are very valuable for the purpose of illustrating lectures, especially those delivered to school children. Films in

preparation deal with Reptiles, Mammals, and Building Stones. During the year officers visited Sodwalls and obtained views of quarrying operations on the granite which is used to a considerable extent in Sydney buildings. Views were also obtained of the processes of preparation of this stone in the works of Messrs. Loveridge and Hudson, through the courtesy of Mr. C. Hudson.

Arrangements were also made to acquire copies of two Australian films prepared by Mr. C. P. Mountford.

Some assistance was rendered to the Army Authorities in their preparation of a film illustrating the ravages of marine boring organisms in the South-west Pacific area.

A copy of one of the natural history films prepared at the Museum was purchased by the Teachers' Training College for teaching purposes.

12. BUILDINGS AND EQUIPMENT.

Arrangements have been made for the two air-raid shelters in the Museum grounds to be used for storage of Museum material, and it is hoped that they will be available for use at an early date. Whilst this will give some slight alleviation of storage difficulties it does not in any way solve the problem of provision of satisfactory storage for those parts of the collections subject to deterioration through the action of moulds.

The need for a suitable storage building becomes more urgent each year and it is imperative that it should be provided before the deterioration of collections gets beyond control.

During the year repairs were effected to the ceiling in the Fish Gallery and the walls of the Skeleton gallery and adjacent Anthropology Gallery were repainted. The glass ceilings which had been removed as a wartime precaution were replaced.

No notification was received of any further action in regard to proposed extension of the Museum buildings. Extensions are urgently required in order to provide improved displays of a greater portion of the Australian fauna than is now possible. That the present displays are appreciated by the public is indicated by the fact that more than a quarter of a million persons visit the Museum during the year. It is more than thirty years since there was any addition to the Museum gallery accommodation and during that time there have been very marked changes in methods of display, and in design of Museum buildings. It is time that the buildings of the largest and oldest Australian Museum be brought into line with modern developments.

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13. FINANCE.

The total expenditure from Consolidated Revenue Fund for the year (excluding Statutory Endowment of £1,000) was £17093.16.9 compared with £16855. 0. 6 last year. Net expenditure from Trustees' Account Funds (including Statutory Endowment) was £931.12.10 compared with £1368.16. 0 for 1943-44.

The expenditure for the year from Trustees' Account (Carnegie Corporation grant) was £19.10.0. This exhausted the grant made to the Trustees by the Carnegie Corporation for production of Natural History films.

The cash balance in the Trustees' Account at 30th June, 1945 was £52.14. 9.

Statement of Receipts and Expenditure for the year is contained in Appendix B.

14. PUBLIC ATTENDANCES.

Statistics of attendances for the year 1939-40 to 1944-45 are as follows:

	Weekdays	Sundays	Total
1939-40	170,354	63,907	234,261
1940-41	194,249	75,994	270,243
1941-42	172,278	73,775	246,053
1942-43	176,129	80,985	257,114
1943-44	200,520	82,751	283,271
1944-45	178,317	78,397	256,714

15. PUBLICITY.

Main avenues of publicity include delivery of lectures, broadcasts, provision of natural history specimens for window-exhibits, and notices of Museum activities in the press.

16. VICKERY STAMP COLLECTION.



Mr. Frank W. Hill completed the task of arranging the Vickery Stamp Collections for exhibition. Inquiries are being made as to the possibility of having suitable cabinets constructed, but there appear to be many difficulties at the present time in respect of shortages of competent manpower and materials and of high costs.

17. WALTER BURFITT PRIZE.

The Walter Burfitt Prize is awarded triennially by the Royal Society of New South Wales. In response to the Society's invitation to submit names for consideration for the 1944 award the Trustees put forward the name of Dr. H. L. Kesteven, Honorary Zoologist and cited chiefly the work which had been published as parts of Memoir No. VIII of the Australian Museum. The prize was awarded to Dr. Kesteven, a very gratifying testimony to the quality of the work which formed the subject of the Memoir.

18. THE COLLECTIONS AND SCIENTIFIC WORK.

The galleries and exhibits, as well as the stored collections, have been maintained in a satisfactory condition. There has been the usual difficulty in combating dust and mould in some of the stored collections, due to the inadequate and unsatisfactory nature of the storage accommodation. This will continue until proper provision is made for housing the collections under satisfactory conditions.

The remaining portions of the collections which had been removed to the country and suburbs as a wartime precaution were brought back to the Museum and were found to have suffered no damage or deterioration during their absence.

During the year specimens were lent for the Sturt Centenary Exhibitions in Broken Hill, and also for an exhibition in the Education Department. A comprehensive display was prepared for exhibition during the Education Convention held at Wollongong in October, but difficulties of transport prevented its despatch.

The constant flow of inquiries from the general public has been maintained and a considerable portion of the time of the scientific staff is occupied in preparation of replies to the great variety of questions asked. Government departments, both Commonwealth and State, as well as scientific and educational institutions, have also been rendered assistance on numerous occasions.

The Museum collections and galleries have been much used by various groups of students in pursuance of their studies. These include students from the University, the Teachers' College, Technical Colleges, and Schools. A special group from the School of Civil Administration at Canberra was also given assistance in studies of Anthropology and Geology.

Members of the Scientific Staff have delivered lectures and addresses to a wide range of audiences, and have also taken part in a number of broadcasts, including the school broadcasts and special series dealing with natural history and the Museum's activities, arranged by the Australian Broadcasting Commission. They have also contributed regularly to the Australian Museum Magazine, thus maintaining a publication which has a very definite educational value and which is appreciated by the public. Maintenance of this Magazine, now in its 25th Year of issue, by a comparatively small staff is no mean achievement.

BIRDS (J. R. Kinghorn in charge).

The forty acquisitions for the year included a series of 21 interesting specimens from North Queensland, collected by Captain A. Austin. Some specimens of Birds of Paradise from the Mount Hagen area in New Guinea constitute the most valuable addition to the collections in recent years. They include several Blue Birds of Paradise and also specimens of very rare Ribbon-tailed species.

An almost complete collection of the birds of British Columbia was made by Mr. W. J. Plowden-Wardlaw, Honorary Correspondent, and presented to the Museum. It still has to be sorted and registered.

Information has been furnished to the Department of Agriculture and Chief Secretary's Department on matters dealing with bird protection and alleged depredations by birds. Assistance on ornithological matters was rendered to a number of visiting ornithologists interested in species occurring throughout the South-west Pacific area.

The general condition of the bird collections is satisfactory but regular inspection and attention is very necessary on account of their liability to suffer damage from moulds. Until proper storage accommodation is provided for these collections, they will always need a great deal of attention and will be liable to suffer deterioration as a result of attack by moulds which cannot be eliminated from the existing storage space.

REPTILES AND BATRACHIANS (J. R. Kinghorn in charge).

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More than 150 specimens were added to the collection, mostly from members of the fighting services. Interesting specimens from Northern Australia were received from Gunner T. R. Tovell and Mr. E. Worrell, including the rare snake Pseudelaps christeanus and an apparently new species of Typhlops. Some interesting lizards were sent from New Guinea by Sergeant J. A. Keast.

Visiting herpetologists have examined our collections of species from the Solomon Islands and New Guinea.

One paper was published - the description of the reptiles collected by the Simpson Desert Expedition, 1939.

MAMMALS AND SKELETONS (E. Le G. Troughton in charge).

Several consignments of rats and marsupials were received from the U.S. Typhus Commission for examination as proven or suspected reservoirs of scrub typhus. A general review of the typhus material was made and a considerable advance resulted towards elucidation of the complex relationships of relevant New Guinea species.

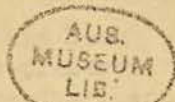
The mammals stored in tanks were transferred to new tanks and the opportunity was taken to check this collection.

A series of primate crania was made available for research work being carried out by a dental graduate.

Assistance rendered to other institutions included : A summary of mammal food resources of the Malayan and Moluccan regions for the Intelligence Service of the A.I.F.; a teaching series of rats and marsupials for the L.H.Q. School of Tropical Hygiene; advice to the Chief Secretary's Department concerning fauna and the Protection Act, and to the McMaster Laboratory regarding association of trombiculid mites and kangaroos in Queensland, and parasites of the platypus.

A paper describing five new species of mammals associated with the mammal-reservoirs of scrub typhus was published in the Museum Records.

FISHES (G. P. Whitley absent on loan; E. Le G. Troughton temporarily in charge).



The re-arrangement of the fish collections, including the "Endeavour" collections, was practically completed.

Information supplied in answer to inquiries included a report on the mosquito-destroying fish, *Gambusia*, and identification of mosquito-controlling fishes; review of various matters concerning the fish fauna of the South-west Pacific.

A specimen of a rare Oar-fish was received from Maroubra, and a cast of it prepared for exhibition.

Mr. Whitley was absent on loan to the C.S.I.R. for the whole year.

INSECTS AND ARACHNIDS. (A. Musgrave in charge; K.C. McKeown and Nancy B. Adams, Assistants).

The collections of Indo-Australian Butterflies, Australian Bombyliidae, Pacific Islands Cicadidae, and Australian Blattidae have been overhauled. Research on Australian Cerambycidae was continued and much information regarding geographical distribution was gained in the course of naming the specimens in a number of private collections, the owners of which generously presented to the Museum specimens of species not represented in the Museum collection.

A check-list of Australian Hemiptera-Heteroptera was prepared and a card catalogue made of the Australian Noctuidae.

The Goldfinch collection of Australian moths was overhauled and many families incorporated in the general collection. The cabinet collection of Australian Sphingidae was revised.

Papers published included a description of the Hemiptera collected by the Simpson Desert Expedition, 1939, and Australian Cerambycidae VII.

Assistance was given to a number of Government Departments, as well as to the British Medical Association and the Kosciuszko National Park Trust.

SHELLS (Joyce Allan temporarily in charge).

Revision of families in the reference collection has been continued, those dealt with during the year including Arcidae, Glycymeridae, Janthinidae, Amphibolidae and Nuculidae. A brackishwater family, the Auriculidae, is now being revised.

Much assistance has been given to other Government Departments and to other Australian Museums in conchological matters.

A collection of Cephalopoda made by the Fisheries Division of O.S.I.R. was examined and the description published in the Museum "Records". Research is now proceeding on a collection of Nudibranchiata from the Clarence River, on a boring species of the genus Oncidium, and on the development of a species of Melo, the Baler shell.

CRUSTACEA AND OTHER INVERTEBRATE GROUPS. (F. A. McNeill in charge; Elizabeth C. Pope, M.Sc., Assistant).

Most notable acquisitions were collections of barnacles (Cirripedia) from Queensland (from Mr. E. F. Rick) and New Zealand (from Miss Lucy B. Moore) and a series of type material of Arenicola (from Mr. Leo Stach).

Much checking and rearrangement of the collections has been carried out, the groups so dealt with including the spirit-preserved Crustacea, Oligochaeta returned, after study, by Mr. W. Boardman, and Amphipoda and Euphausiacea which had been subjects of examination by Mr. K. Sheard.

The collections of freshwater crayfish (Parastacidae) and gordian worms were examined and named by Mr. E. F. Rick of the University of Queensland.

Assistance was rendered, in co-operation with officers of the Maritime Services Board, in the production by the Army Authorities of a booklet covering the subject of Marine Boring Organisms, their destructive operations in timber and their eradication. Assistance was also given to the North Queensland Naturalists' Club, the Queensland State Fisheries Department, the Zoology Department of the University of Sydney, and to State School Teachers engaged in the teaching of Biology.

Work on marine borers was continued in collaboration with Mr. R. A. Johnson, Research Engineer of the Maritime Services Board.

An exhibit illustrating the life history of the Tape Worm was prepared for the gallery.

One paper "A Simplified Key to the Sessile Barnacles found on the Rocks, Boats, Wharf Piles and Other Installations in Port Jackson and Adjacent Waters" was published in the "Records".

MINERALS. (T. Hodge-Smith in charge till 8th June, 1945; R. O. Chalmers, assistant, absent on loan; Frida Sachs, temporary assistant).

Additions to the collection totalled 314, which included Broken Hill Minerals from Zinc Corporation Ltd., a gold crystal from Wellington, presented by Mr. G. Stone, crystallized molybdenite and fluorite, a gem quality beryl, and crystals of scheelite.

Crystals of scheelite from Nurdla were measured and notes on them prepared for publication.

The card index to the mineral collection was completely rearranged and the bibliographical index of mineralogy reorganized.

Assistance was rendered to the Commonwealth Mineral Resources Survey, the Postmaster-General's Department, the State Post-War Reconstruction Committee, the Health Department, and the Observatory.

ROCKS (T. Hodge-Smith in charge till 8th June, 1945; R. O. Chalmers, assistant, absent on loan; Frida Sachs, temporary assistant).

Fourteen specimens were added to the collections, including an almost complete stone meteorite from near Wanaaring.

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The rock collection was completely checked and catalogued and its transfer to new storage accommodation in one of the air raid shelters commenced.

Fossils (H. O. Fletcher in charge).

Additions to the collections comprised 716 specimens and 729 microslides. The acquisitions include a large collection of fossil insects from Upper Permian rocks at Belmont and Warner's Bay (from Mr. O. Le M. Knight), and a series of well preserved bivalves from Lower Cretaceous beds near Tiboburra (from Mr. Forster). A number of specimens were selected from the Technological Museum collection which had recently been transferred to the Mining Museum. Collections of vertebrate remains of Pleistocene age were collected at Gourie and Wellington, and a comprehensive series of Permian marine fossils were secured from localities in northern New South Wales and southern Queensland.

Many microslides from the collection in the Mining Museum were transferred to the Museum collection and they include a number of type and figured sections. Other microslides include sections of Permian Bryozoa prepared by Miss Joan Crookford.

During the year a search was made amongst the collections of the Mining Museum for missing type specimens with the result that a number of such types were recovered and have now been registered.

Progress has been made with sorting and cataloguing the groups Bryozoa, Gastropoda, Cretaceous Pelecypoda, Ammonoidea, and Belemnoida. The restoration of the extinct Giant Kangaroo (*Palorchestes azael*) was completed and placed on exhibition in the galleries. A new exhibit of Permian marine fossils was almost completed.

Field work included visits to Gourie, Kempsey-Taree, Drake-Boorook, and Silverwood - Lucky Valley districts, and Tiboburra - Lake Callabonna.

Two papers were published in the "Records", "A new *Aulosteges* from the Lower Permian of Queensland", and "A new genus, *Glyptolista* and a revision of the genus *Nuculana* from the Permian of Australia". Additional research work has been carried out on a number of Permian genera, of which two new genera of Pelecypods are partly described.

Anthropology (F.D. McCarthy in charge).

Interesting acquisitions include a series of old aboriginal weapons from the Barwon River district (from Mrs. Conacher and Mrs. Fitzhardinge); stone implements from Singleton (from Mr. D. S. Davidson), and from various localities in New South Wales (from Messrs. Fadyan, W. J. Enright, and H. Gilbin and Rev. E. N. McKie); a perforated artefact from Tambar Springs (from Mr. H. Wansey); miscellaneous Pacific Island material (from Messrs. D. Pratt, H. Lind, and H. D. Iffla, and Mrs. L. Gehrig); three Polynesian pieces collected in 1877 (from Rev. and Mrs. E. Fox); and a bone dagger from New Guinea and a Kava cup from Fiji (from Mr. F. B. Spencer). Old New South Wales aboriginal weapons from Lake Narran district and from Canberra were purchased, and by exchange we acquired stone implements from Singleton and the Darling River, and stone blades from New Zealand.

A model of an Australian Aboriginal, the first of a series of models of native races, was completed ready for casting.

An account of the stone implements of Australia, a research begun in 1936, was completed and submitted for publication. Progress has been made in abstracting from literature data on the aborigines of the Sydney-Hawkesbury district. Papers published included the second and third parts of a catalogue of aboriginal relics of New South Wales, an abstract of the aboriginal matter from the Skottowe manuscript, and a description of series of hitherto unrecorded engravings.

Studies commenced comprise papers on unusual stone-headed clubs from New Guinea, quartzite blades from Australia, South Africa, New Zealand and Admiralty Islands, a survey of the pecking technique, an analysis of the large stone implements from workshop sites on the north coast of New South Wales, and the description of unrecorded rock-engravings in the Sydney-Hawkesbury district.

In the field, rock-engravings and aboriginal relics were inspected at Patleconbridge and Hazelbrook, at Brookvale, and in the Somersby district. A visit was also paid to Port Macquarie when a fine collection of stone implements was obtained from Point Flower.

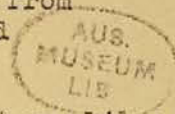
Considerable interest was shown in aboriginal art and designs were used in craft work by students of the Teachers' College and the Technical College Art School.

NUMISMATICS. (F. D. McCarthy in charge).

Accessions were few, the most notable being a series of Roman bronze coins presented by the late R. Klein. The reference collection of medals and British Empire coins was rearranged, and the exhibits continue to attract the attention of the public.

DEPARTMENT OF PREPARATION. (T. Hodge-Smith in charge till 8th June, 1945;

G. C. Clutton, Preparator, temporarily in charge from 8th June; J. Kingley, Preparator; W. Barnes and J. H. Wright Assistant Preparators.)



During the year 325 negatives, 454 prints, and 153 lantern slides were prepared, 3 birds were mounted, 51 birds, 58 mammals, study skins, 78 skulls, 21 moulds and 71 casts were prepared.

The restoration of the extinct Giant Kangaroo was completed, cast, and coloured and placed on display in the Gallery. Casts were prepared of an Oar fish and a large Salmon for display.

Experimental work with plastic materials was continued and casts prepared of a number of reptiles.

Life-size models of several spiders, using plastic materials, were completed and placed on exhibition. A commencement was made in the preparation of models of six native races; the first one, the Australian Aboriginal, was completed ready for casting.

The dry and spirit collections received attention as required. Specimens were supplied for use in various window displays in the city. Assistance to the Red Cross Papier Mache Auxiliary has been continued.

A rhinoceros, one of a pair presented to Taronga Park by Mr. E. J. Hallstrom, died and at Mr. Hallstrom's request the necessary measurements of the animal were made and it is being mounted for the Trustees of Taronga Zoological Park.

During the year copies of the Relief Map made last year were prepared for the Metropolitan Water Sewerage and Drainage Board and the Main Roads Department.

Accessions for the year 1944-45 totalled:

Vertebrata	347
Invertebrata	1491
Geological	1041
Ethnological	779
Miscellaneous	983

4641

Papers and Articles published during the year totalled:

Records of the Australian Museum	8
Memoirs of the Australian Museum	1
Australian Museum Magazine	3 $\frac{1}{2}$
Other Publications	6

The Common Seal of the Museum was hereunto affixed by Order of the Board this

PRESIDENT

DIRECTOR.

APPENDIX A.



TRUSTEES OF THE AUSTRALIAN MUSEUM AT 30TH JUNE, 1945.

Crown Trustee

F. S. Manne, A.I.C.A.

Statutory

His Honour the Chief Justice.
The Hon. the Colonial Secretary.
The Hon. the Attorney General.
The Hon. the Colonial Treasurer.
The Auditor General.
The President of the Medical Board.

Appointed

The Hon. the President of the
Legislative Council.
The Crown Solicitor.
The Surveyor General and Chief
Surveyor.
The Hon. the Minister for Works.
The Hon. the Minister for Education.

Elective

E. C. Andrews, B.A.
C. Gordon MacLeod, M.A., M.D., Ch.M.
G. A. Waterhouse, D.Sc., B.E. F.R.E.S.
Professor A. N. Burkitt, M.B., B.Sc.
Professor W. J. Dakin, D.Sc.
H. B. Mathews, B.A.
Frank B. Spencer
Professor E. Ashby, D.Sc. A.R.C.S.
D.I.C.
Sir Samuel Walder, Kt.,
John Spence, C.M.G.
C. A. Sussmilch, F.G.S.
O.G. Vickary, B.E., A.M.I.E. (Aust.)