Annual Report

1983-84

Museum of Victoria

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REPORT OF THE COUNCIL 1983-1984

The Museum of Victoria Council presents herewith its Annual Report for the year ending 30 June, 1984, in accordance with Section 30 of the Museums Act 1983.

This is the first Annual Report of the Museum of Victoria which was created by an Act of Parliament on 1 July, 1983, bringing together two previously separate institutions, the National Museum of Victoria and Science Museum of Victoria, under the control of a single Council. The main objectives and functions entrusted to the Council of the new Museum are:

1. to develop and maintain the State collections of natural history, the history of human society, and the history of science and technology;
2. to exhibit material from these collections for purposes of education and entertainment;
3. to promote the use of the Museum's resources for education in Victoria;
4. to promote the use of these collections for scientific research;
5. to develop and promote knowledge of cultural heritage through study of these collections.

The merger of the National and Science Museums to form the Museum of Victoria created an institution with a vision of social history in terms of natural resources, the development of technological solutions to practical problems and the social and political influences on the shaping of Victoria's multi-cultural society. The Museum is large; it employs over 200 people, houses vast and very valuable collections, and incorporates facilities for scholarly research. In the body of this Report the Museum's numerous activities are cited in modest detail. In this covering President's Report I need only highlight the major events of our first year.

The first Council was appointed to hold office from 1 July, 1983, to 30 June, 1984, during which time it held 10 meetings. Office bearers were:

President – Professor J. W. Warren
Deputy President – Mr D. H. Kemp
Treasurer – Mr D. C. L. Gibbs

Council appreciated your attendance as Minister at our inaugural meeting in July and was grateful for the support expressed in your address to the meeting. Initially Council's business was somewhat routine, fixing a Common Seal, establishing a Building Management Committee as required in the Act, appointing an Executive Committee to act between meetings, and endorsing matters of principle referred from the previous Councils and the Building Trustees, which formerly was responsible for building maintenance and management. Notable among these was the continued affiliations with Melbourne, Monash, and La Trobe Universities, the expansion of the Friends of the National Museum to incorporate new interests, and continuity for planning of exhibitions to which there was already a commitment. In the course of the year the Museum finalised a new affiliation with Deakin University.

A new position, "Director of the Museum of Victoria" was established and advertised widely. Council is particularly pleased to have attracted Mr Robert Edwards to the position, which he takes up in September, 1984. Mr Edwards brings a wealth of appropriate experience to the Museum. He has been Curator of Anthropology in the South Australian Museum, was the first Director of the Aboriginal Arts Board, and the first Director of the International Cultural Corporation of Australia. We look forward to welcoming him and assisting him to guide the Museum in programmes of increasing public participation and awareness. Mr Edwards will also be responsible for advising on, and implementing a new management structure. A proposed management structure was suggested by the Management Consultancy and Organizational Studies Division of the Public Service Board in a report to that Board in 1982 when the merger of the two previous Museums was under consideration. It was agreed at that time, however, that no such structure would be finalised without an input from the Director yet to be appointed. We were pleased to have

this procedure confirmed by Ms K. Lahey, a member of the review team, at the September meeting of the Council and later by you as Minister, because we consider that parts of the proposed structure are not appropriate to a modern Museum of this size and require further professional Museum input.

An inter-regnum management group attempted to handle Museum affairs through the existing structure of the two previous Museums with Mr John Kendall in charge of a Division of Science and Technology and Dr Barry Wilson a Division of Natural History and Anthropology, these officers having been the Directors of the two previous Museums. The arrangement into two separate administrative Divisions without an overall Director proved unduly cumbersome and it was recommended to the Ministry than an Acting Director be appointed *pro tem*. Mr John Kendall was so appointed and Council is particularly grateful to him for undertaking this task, and to both him and Dr Wilson for contributing so much to ease the transition to a single institution.

Three major displays were opened during the year, (1) an Egyptian display entitled "Tjeby, Long May He Live", (2) the H. V. McKay Centenary Exhibition and (3) "Experilearn" jointly with Monash University. An entry fee to "Tjeby" raised funds partially to restore the 4,000 year old Egyptian mummy; the opening of the McKay exhibition attracted many of Mr McKay's descendants and the McKay Foundation announced a grant of $20,000 to the Museum's acquisition fund; "Experilearn" was immediately popular and proved the value of the Museum in providing interactive, educational displays. Our Science and Humanities programme sponsored an exhibition of natural history paintings and prints by Siqing Zhou of the Natural History Museum, Beijing.

Regarding future displays, the Museum had three proposals before the State's 150th Anniversary Committee, (1) the Story of Victoria being an historical exhibition, (2) a Children's Museum being an interactive programme for young people, and (3) an External Transport Display to exhibit vehicles from the collections in outdoor cases along Little Lonsdale Street. The latter has not been funded but the Story of Victoria was allocated $285,000 and the Children's Museum $265,000, for which we are grateful. Looking forward to Australia's Bicentennial celebrations in 1988, we have proposed an exhibition of Aboriginal culture to tour North America and Australia entitled "Australia's First People".

The new Museum is dedicated to expanding its educational role and the involvement of the public in its activities. We were dismayed to learn of the Government's proposal to reduce our educational services from 11 seconded teachers to 7. The proposal was not put into effect when our arguments, and those of other affected bodies, on the value and economic efficiency of these services was accepted. It highlighted again, however, the need to have a core of educational staff employed within the Museum and supported by a coterie of seconded teachers. In the course of the year the Education Service saw to the needs of some 80,000 pupils, this being less than in past years because of the temporary closure of classrooms during the renovation of McCoy Hall.

Building maintenance and renovation continues to cause concern. The Building Management Committee's Report, which is contained herein, calls attention to undue delays to minor projects and the under expenditure of allocated funds. However, we are pleased to report the repainting of McCoy Hall in its original colours was commenced and completed in the course of the year. This was a large undertaking involving the installation of some new electrical works as well, and we are grateful for your support as Minister in achieving the refurbishment of this historical space. Another hall, Kershaw Hall, is undergoing renovation to its original state and a longstanding project to upgrade the Planetarium continues satisfactorily and is financed primarily from Planetarium entrance fees.

One of the most unsatisfactory areas in the Museum is the housing, handling, and presentation of ethnographic materials. Experienced and dedicated staff and volunteers work in poor conditions attempting to maintain the unique, invaluable collections. The Australian Aboriginal material warrants special notice. In December Council acknowledged the concern of Aboriginal communities about ownership of articles in museum collections and addressed the matter of establishing a committee of Aboriginal people to advise it, and in March adopted a set of principles governing the handling of Aboriginal, and other, skeletal material. Subsequently, a writ was served on the Museum by a representative of the Aboriginal Legal Service seeking an injunction to restrain the Museum from lending Aboriginal objects without permission from the Minister for Planning and the

Environment, who is responsible for the administration of the Archaeological and Aboriginal Relics Preservation Act 1972. The injunction was established by Court order, thus giving precedence of the Relics Act over the Museum Act, which specifically empowers the Museum to loan material from the collections for legitimate purposes. The Aboriginal Matters Subcommittee of Council, with its majority of Aboriginal members, will be considering the implications of the injunction and the handling of Aboriginal materials in the immediate future.

Funding of the Museum is not adequate to provide a satisfactory series of public programmes and Council depends on sponsors and contributions from outside Government. We are most grateful to the following donors:

University of Melbourne (Thomson Collection Microfiche Catalogue)	$32 000
Esso Australia Ltd (Tjeby Exhibition)	$30 000
William Buckland Foundation	$5 000
Friends of the Museum	$4 700
Dow Corning	$2 000
Victorian Gem Clubs Association	$1 500
Ian Potter Foundation	$1 000
D. Alexander	$1 000

The Government refused Council's request to extend to the new Museum the dollar for dollar matching grant previously held by the National Museum and this is discouraging. Contributions from sources outside Government are necessary to institutions of this nature and the dollar for dollar matching grant is one effective way of encouraging them.

The future of the Museum depends on the support and assistance of unselfish people in the community, notably members of the Friends of the Museum. We are grateful to all of them, to their Patroness, Lady Murray, and to their President, Mr Peter Parkin for their efforts, interest and enthusiasm. We also extend our thanks to personnel of the Ministry and to you, as Minister for the Arts, for your encouragement and support during this first year of the Museum of Victoria.

J. W. Warren
President

ACTING DIRECTOR'S REPORT ON ACTIVITIES FOR 1983-1984

To The President
Museum of Victoria Council

Sir,

I present herewith for consideration by the Council and subsequent transmission to the Honourable the Minister for the Arts, this report for the period 1 July 1983 to 30 June 1984.

NATURAL HISTORY AND ANTHROPOLOGY

The Division has three large units, Geology, Zoology and Anthropology which maintain huge research and reference collections gathered over a period of more than 130 years. Geology and Zoology carried out basic research on the geology and the variety, distribution, relationships and ecology of the past and present marine and terrestrial faunas of our region. This work included environmental studies attempting to provide essential information for management of natural resources by other agencies. Anthropology used documents, photographs and artefacts from its collection to piece together Aboriginal cultural life. The Collections and associated information form a data base to facilitate education and research. Much of the effort within the Division is aimed at developing the scope and the quality of this information system. An attempt is also being made to computerize the system and provide more effective access to the Collections.

Geology

Mineralogy and Petrology: Most research work has centred on late-stage assemblages in some basic and alkaline volcanic rocks at Portland, Ballarat and Lake Bullenmerri. Microprobe analyses were obtained in the Geology Department at University of Melbourne where Dr W. D. Birch is a Visiting Research Fellow. Further research was undertaken on aspects of the mineralogy of the Broken Hill (New South Wales) orebody. Papers were published on vesuvianite, zincian dolomite, rhodochrosite, and roepperite. In addition, research into a number of new or previously unrecorded mineral species from Broken Hill was commenced. Aspects of Victorian mineralogy were emphasized, with studies on zeolite minerals prominent. The first record was made of the rare zeolite cowlesite, from basalt at Flinders.

Collaborative work on two rare sulphosalt species from Swiss and Bulgarian localities was also undertaken with Dr A Pring (ANU) and W. G. Mumme (CSIRO) Division of Mineral Chemistry. Individual research projects relating to a review of acid volcanic rocks in Victoria, topaz-bearing rocks near Eldorado and calc-silicate rocks near Toolangi were finalised following the acceptance of papers for publication. Considerable field time during the year was spent on Phillip Island, checking localities of mineralogical and geological interest to enable preparation of an excursion guide for the Victorian Division of the Geological Society of Australia, which is to publish a set of Victorian excursions for use by High School students.

Early in 1984, Dr Birch was appointed to the New Minerals Commission of the International Mineralogical Association, which decides on all new mineral data submissions. He also refereed a number of papers for the Australian Journal of Earth Sciences and prepared a report for the Australian Geoscience Council on mineralogical research in Australia in 1983.

Vertebrate Palaeontology: Research in Vertebrate Palaeontology continues to centre on the search for the elusive fossil ancestors of the modern Australian mammalian fauna. Assisted by the Australian Army, Monash University and the Australian Museum, five partial skeletons of *Diprotodon* were located and excavated from the Late Pleistocene deposits at Lake Callabonna. Studies continued on these specimens and on previously collected fossil mammal material from Hamilton and the Northern Territory.

A new development in the Vertebrate Palaeontology Department has been work on recently discovered Australian dinosaurs. Ten days were spent showing four members of the Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China, sites of palaeontological significance in southeastern Australia. Fortuitously, an opalised plesiosaur (marine dinosaur) was discovered at Andamooka, South Australia. As the South Australian Museum was unable to immediately follow-up this discovery, the Chinese palaeontologists together with Dr Rich, visited the locality and excavated it. Subsequently, the specimen has been donated to the South Australian Museum by the miners who discovered it.

With the assistance of 65 volunteers from the Friends of the Museum of Victoria, two weeks were spent carrying out a reconnaissance excavation at Dinosaur Cove. As a result of this work, the original site was shown to be a stream channel deposit with a low but consistent concentration of bone. In addition, a second, equally fossiliferous site was found, also in Dinosaur Cove.

Material recovered from the two sites included the smallest dinosaur yet found in Australia and only the second Australian occurrence of pterosaurs (flying reptiles).

Invertebrate Palaeontology: Research has been on four fronts aimed at bringing to light never-before-available information about past faunas that will be critical to understanding the history of the earth in the southeastern Australian region.

A previous study of Cambrian trilobite faunas of northern China revealed great similarity with known faunas of northern Australia. Consequently trilobites of latest Cambrian age from Waratah Bay, Victoria and from northern and southwestern Tasmania, were investigated to ascertain whether the same affinity existed. This taxonomic work suggests greater

faunal affinity with South America but similarity with China is still apparent. The full implications of this work are yet to be realised pending its integration into the global picture.

Taxonomic and phylogenetic studies of Palaeozoic echinoderms from all parts of Australia continued with the support of Australian Research Grants Scheme and is revealing an enormous fauna of starfish and crinoids, previously quite unsuspected.

Another research direction is the insect fauna of a well known fossil bed in the Lower Cretaceous near Leongatha, South Gippsland. The insects largely belong to families that live in eastern Australia today and this fauna provides critical information on the antiquity (at least 120 million years) of the living Australian insect fauna. Moreover, identification of stream dwelling and lake dwelling aquatic larvae as well as terrestrial adult insects, helps detailed interpretation of the climate and ecology of the time. This work will continue with more than 80 different species to be described.

Dr T. A. Darragh was awarded the degree of Doctor of Philosophy in the University of Melbourne for a thesis entitled "A study of Tertiary molluscan faunas from southeastern Australia and their biostratigraphic significance". The 18 assemblage zones proposed will assist in the dating and mapping of Tertiary rocks in Victoria and adjacent areas. Two families of molluscs, the Volutidae and Trigoniidae were also revised.

As part of a joint study on the Late Cretaceous molluscs of Australia with Mr G. W. Kendrick of the Western Australian Museum, Dr Darragh undertook field collecting in the Carnarvon Basin on the Giralia Anticline. It is anticipated that the study of these molluscs will throw light on the origins of the Australian Tertiary and Recent molluscan faunas.

Dr D. J. Holloway held a Leverhulme Commonwealth Visiting Fellowship for 10 months from September 1983 at the University of Aston in Birmingham, U.K., where he collaborated with Dr A. T. Thomas on a taxonomic review of the trilobite order Lichida. The revision will be included in the second edition of the "Treatise on Invertebrate Paleontology", a multi-volume reference work published in the United States.

Acquisitions: More than 30,000 fossils, principally foreign, transferred to the Museum from the University of Melbourne, was the largest acquisiton to the geological reference collection during the year. Research orientated collections included further Early Cambrian trilobites from the Flinders Ranges and the Museum's first representatives of Upper Devonian goniatites, corals and crinoids from the southern Kimberley region of Western Australia. A massive collection of more than one tonne of rock material from an old quarry at Kinglake yielded hundreds of fine specimens of trilobites, brachiopods, corals and in particular one of the world's outstanding collections of Early Devonian echinoderms. In the same way, treatment of fossil-bearing rocks yielded many fossil vertebrate specimens from Dinosaur Cove at Cape Otway, from Batesford Quarry, from Lake Callabonna in South Australia and from Bullock Creek in the Northern Territory. Three hundred and eighty fossil vertebrate specimens were registered in the collection from these and other sources.

Fieldwork within Victoria yielded mineral and rock specimens including turquoise and other phosphate minerals from Edi and Greta, rare zeolites from Jindivick and Tylden and various zeolites and basaltic minerals from Phillip Island. The total number of acquisitions for the year in this field was 931, made up of 687 minerals and 244 rocks and meteorites.

Major purchases for the year included a spectacular suite of large display-quality zeolite specimens from Flinders, Victoria, fine crystalline fluorite and other species from the Renison Bell and Cleveland Mines in Tasmania and rare and colourful minerals from Western Australian localities (Kambalda, Walgidee Hills, Whim Creek). Of the foreign exhibition specimens purchased, the most notable were fine anglesite, vanadinite, cerussite, wulfenite and azurite crystals from Morocco and a group of stibnite crystals from Rumania. A donation of $1,400 from the Museum Fund of the Victorian Gem Clubs Association enabled the Museum to purchase a fine group of highly-prized transparent red rhodonite crystals from Broken Hill. The Mineral Donation Box, in the public galleries, received a total of $1,204 during the year and was a valuable addition to acquisition funds.

Exchanges were carried out with a number of individual collectors and museums. These resulted in the additions to the collections of suites of Norwegian and Bulgarian minerals; 15 small gold nuggets from the Wedderburn area, Victoria; rare phosphate minerals from the Yukon, Alaska; and a number of overseas meteorite specimens.

Donations of significance included three cut and set Coober Pedy precious opals; 16 specimens from Trepca, Yugoslavia; a large display specimen of purple fluorite crystals from the USA, and a fine group of fluorapatite crystals from Lake Boga, Victoria.

Zoology

Research within Zoology has been in four main areas. Of prime importance are the taxonomic studies, describing the fauna of Australia and elucidating the relationships of the different elements of that fauna. Complementary studies have been the compilations of field guides, check-lists, identification atlases and keys to various parts of the fauna. Of particular significance are a number of projects, initiated and funded by the Bureau of Flora and Fauna in Canberra, where staff members are compiling comprehensive checklists to parts of the Australian fauna. These include non-marine molluscs by Dr B. J. Smith, sponges by Dr F. Wiedenmayer, cephalopods by Dr C. C. Lu, some crustacean groups by Dr G. C. B. Poore and caddis flies by Dr A. Neboiss. The other two main areas of zoological research consist of studies of particular regional faunas or populations of animals from particular habitat types, and historical studies, documenting the development of a discipline or the contribution of a former worker in the field.

Terrestrial Zoology: Projects completed during the year included an account of the mammals and fish recorded by the late Donald Thomson in northern Australia, a study of a colony of Gould's Wattle Bat, and a review of Australia's natural history artists. Work on classification and assessment of bird and mammal habitats continued. An investigation continued into the herpetofauna of the Chinaman Well area of the Big Desert in northern Victoria and a monitoring of the recovery of that fauna following the devastating wildfires in 1981. New studies commenced during the year included collection of data

on Antarctic mammals and a review of the zoological work of Baldwin Spencer.

In the field of terrestrial invertebrates taxonomic revisionary work is continuing on the Australian Trichoptera (caddis flies), on the bee *Homalictus* and the wasp *Spilomena*, on the larvae of chironomid flies and the carnivorous snails of the Rhytididae. Preparation of an identification guide to the larvae of the non-biting midges (Chironomidae) was aided by a four month project identifying chironomids from the Maribyrnong River for M.M.B.W. The biological Survey Department commenced a one-year study, jointly funded by the Department of Minerals and Energy and Rural Water Commission, into the effects of eductor dredging on benthic invertebrates in the Goulburn and Big Rivers. The Howqua and Jamieson Rivers are also being sampled for comparison.

Marine Zoology: Taxonomic reviews were carried out on several groups of small crustaceans, including descriptions of new species from Victoria and tropical eastern Australia, on the cephalopod genera *Sepia*, *Sepioloides* and *Nematolampas*, on mussels, on polychaetes and on sponges. Revisionary studies were also carried out on southern Australian representatives of the fish families Trachichthyidae (roughies), Uranoscopidae (stargazers) and Urolophidae (stingarees). Work is progressing on the compilation of a field guide to the fishes of Australia's south coast and a checklist of the marine fishes of Victoria.

The survey of the Bass Strait fauna, funded by a Marine Sciences and Technologies grant, is nearing its final stages. Material is now with the different specialists and a detailed report is being prepared. A study of the fauna of Corner Inlet funded by the Fisheries and Wildlife Division was undertaken during the year. Collecting trips for research material were also undertaken to southwestern Australia and staff participated in a cruise on R. V. *Soela* as part of the CSIRO Southern Programme to study the fauna of the continental slope off Tasmania and Bass Strait.

Several Honorary Associates continued extensive taxonomic works on bryozoa, pycnogonids, echinoderms, opisthobranch molluscs and hydroids from the Collections.

Acquisitions: The Bass Strait Project and the many expeditions and field trips carried out by staff in connection with specific research projects provided the bulk of the acquisitions in Zoology. Research cruises were undertaken in Bass Strait and around Tasmania and in various parts of the sea off northern Australia from the Coral Sea to the North-west Shelf. Large collections of terrestrial and aquatic insects were obtained from fieldwork in East Gippsland and in central New South Wales and southern Queensland. These included several survey projects into the invertebrate fauna of Victorian streams funded by outside authorities. Significant collections of insects, reptiles and amphibians were made by staff in the Big Desert region of northern Victoria.

A number of other scientific institutions donated or lodged collections of specimens either as exchange or identification material related to a specific research project or because the Museum is the statutory repository for biological material in Victoria. Such acquisitions included:

- collection of Koala skulls from Monash University;
- bird skeletons and skins exchanged from Louisiana State and South Florida Universities, and with the Queensland and Australian Museums;
- type specimens of fishes sent on exchange from Rhodes University, South Africa, and from the Northern Territory and Australian Museums;
- large collection of midwater fishes from the CSIRO Marine Research Laboratories, Cronulla, N.S.W.;
- collection of freshwater fishes from the Arthur Rylah Institute, Victoria;
- types of insects from the University of Adelaide, and
- collection of freshwater molluscs from south-east Asia purchased from West Germany.

The nett result of these acquisitions is a substantial growth in the zoological collections. This is evident in the following table showing the estimated number of specimens added to the collections in 1983/84.

Department	Estimated number of new accessions
Mammals	350
Birds	266
Reptiles and Amphibians	465
Fishes	10000
Insects and Arachnids	50000
Crustaceans	8000
Invertebrates	13000
Total	82081 specimens

Curation: The main advance in curation programs this year has been the commencement of natural history collection data input to a database system uniform through the Division. The need for an effective retrieval system for stored collection data became more evident during the year with increased demand, both by the public, commercial enterprise, government departments, and educational bodies for information about the State's fauna. An increase in requests for use of the Collections by tertiary students was particularly noticeable.

By arrangement with the Museum Council, the University of Melbourne Computer Science Department and consultant, Peter Reynolds, have further developed software for a museum computerized information system. The system provides for data entry and automated retrieval through terminals in the curatorial departments. It also has potential for interactive information facilities in public galleries. It is run by three microprocessors on loan from Email during developmental stages.

Advantage was taken of Employment Initiatives, Australian Biological Resources Survey and other funds to facilitate machine capture of existing collection data in Ornithology, Mammalogy, Herpetology, Mineralogy and Palaeontology. Almost half the existing registry entries in Palaeontology were entered on to computer tape during this period and substantial advances were made in the other collections.

EDP methods are also being adopted for special purposes. For example, this year a computer file relating Victorian localities, references and reported mineral species was developed, based on an extensive card system provided by former Mineralogy Department assistant Frank Bussat. The information contained

in this file will be an invaluable reference source for Victorian minerals.

Another project involves development of a videodisc recording of more than 20,000 colour photographs of Australian wildlife and natural habitats. The objective of this project is to test the usefulness of videodisc technology as an information-access device in the Museum's public galleries. In the long-term, the high quality colour pictures called up on the screen by the public will be related to information in the collection data-base. The first trial model will be completed in 1985. The project has been generously supported by TAA and A.A.V. Australia; original photographs have been drawn from numerous sources within or associated with the Museum.

The most serious problem in curation of the Zoological Collections is the very low number of technical staff available for collection management. Several departments are operating without technical assistance or with a level of assistance far below that needed. Some of the difficulties are being bridged with the help of volunteer workers. The staff is appreciative of the invaluable services provided by these volunteers.

Several parts of the Zoological Collections have been re-organised and brought up to date during the year. These include the hymenopterous insects, the polychaetes, bryozoans and ascidians, some reptile groups, particularly the foreign snakes and parts of the fish collection. However, most of the Zoological Collections are very crowded making both collection reorganisation and the incorporation of new material a difficult exercise.

Anthropology

The Department holds a huge collection of Australian Aboriginal artefacts, photographs and documents relating to Aboriginal cultural life. There is also a large Pacific Islands collection and additional material from many parts of the world. Together these artefacts, photographs and documents comprise a record of part of the human history of our region and provide an unequalled resource for both scholarly study and public education purposes.

Aboriginal Matters Committee: During the year prior to the enactment of legislation creating the Museum of Victoria, the National Museum of Victoria Council had considered the need to establish more effective liaison with the Victorian Aboriginal community and to involve Aboriginal people directly in both policy-making and day-to-day management of the Aboriginal Collections. A threefold strategy was adopted. Employment of Aboriginal people in the Department of Anthropology, provision of training for Aborigines and establishment of an Aboriginal Matters Committee to assist the Council to develop policies in this field. Implementation of this programme had been delayed by the amalgamation of the National and Science Museums. However, the necessary administrative arrangements were completed for the establishment of the Aboriginal Matters Committee under the terms of the new Museum of Victoria Act.

Two members of Council, the nominee of the Director and nine Victorian Aborigines were appointed as the inaugural members. The Aborigines were representatives from the Ministry for Planning and Environment Skeletal Remains Committee and a number of the Aboriginal Co-operatives throughout Victoria.

The first meeting of the Committee was held in the Museum Boardroom on 26 June 1984 chaired by the Council President.

Collections Management: Much effort has gone into upgrading documentation of the Collection, with financial support provided by the Wages Pause Scheme. Other projects included curation of the Baldwin Spencer Photographic Collection of Aboriginal Australia and preservation by copying, on to stable film, several thousand photographs from Papua New Guinea in the historic Vivian and Chinnery Collections. Work on deciphering and transcribing the field notes of the late Donald Thomson also continued and an inventory and classification of southeastern Australian Aboriginal photographs was completed.

Skeletal Collections: The Museum holds a large collection of Aboriginal skeletal remains, most of which was removed from burial sites accidentally unearthed by earth works of farmers ploughing fields, or by soil erosion. The existence of this material has proved to be of great concern to the present generation of Aboriginal people.

A preliminary list of the remains was prepared by staff and submitted to the Museum of Victoria Council on 8 June 1984. It included 14 historically identified individuals. Consistent with Museum Council policy and in line with recommendations made by the Council of Australian Museum Directors, such material is to be re-buried in consultation with the Aboriginal communities concerned. Negotiations have commenced with the Secretary, Ministry for Planning and Environment, to undertake this burial. A further assessment of the Collection is to be carried out to determine the scientific significance of the remaining material.

Access to Collections: Collections were referred to by 48 scientific researchers from the University of Melbourne, Victoria College, La Trobe University, University of Sydney, University of Hawaii, CSIRO, South Australian Museum, Australian National Gallery, Mt. Sinai Medical School, Australian National University, Australian Museum, National Gallery of Victoria, Auckland Museum, University of Western Australia, and the Institute of Paleoanthropology in Peking. The areas of highest use were the biological collections (mainly skeletal remains), stone tools and the archival papers of Howitt, Spencer and Bulmer. Other parts of the collection referred to were Asian textiles, bark paintings, Oceanic art, pearl shell artefacts, the model canoe collection, Pacific pottery, lime gourds, tobacco pipes, Pacific tooth decorations, and different aspects of the Donald Thomson Collection.

Several hundred other people visited the Department for access to the southeastern Australian Collections of Aboriginal photographs and artefacts. The majority were Aborigines, representing ten State and federal government departments, five Aboriginal organisations, two municipal bodies and 12 Aboriginal co-operatives or similar organisations. The Museum's Aboriginal Liaison Officer began a programme to assist local Aboriginal communities gain access to their cultural heritage in the custody of the Museum. Visits to the Museum are encouraged and loans of artefacts and other materials from the

Collections are made for exhibitions and other educational activities.

Acquisitions: A policy that traditional Australian Aboriginal and Pacific Island cultural material should be acquired whenever opportunities arise has been adopted, because this is a vanishing resource. In addition, selected contemporary material is acquired so that the Collections will record the evolution of Aboriginal culture since contact with Europeans. With limited purchase funds progress towards these objectives is slow although the Taxation Incentives for the Arts Scheme has proved to be highly beneficial. This year an extremely well documented collection of artefacts from the Sepik River district of Papua New Guinea was received from Hubert Umlauf as a donation under the Scheme. Another significant donation was from W. Reuter, consisting of a very large Tonga tapa (bark) cloth showing a dictionary of Tongan fauna and flora. Major purchases included two Thancoupie pots, a log coffin from Arnhem Land, a collection of Tiwi batik sarongs, an important bark painting by Milpurru on an Arafura Swamp theme (the goose hunt), Aurukun Community manufactures and women's desert artefacts. Other donations included New Guinea artefacts from Mr G. Ozanne, A. J. Campbell glass plate collection, from Mrs S. Edwards, and William Jackson archival material from Papua New Guinea.

Photography

The Department consolidated further its reputation in the areas of publishing, exhibitions and audio visual presentation.

Various exhibitions were opened during this period where the photographic component was significant. The major ones were: Minerals Exposed—an exhibition on minerals, describing types, where they are found and their economic significance; Animals, inside-out—an exhibition on animal skeletons and how they function; and Tjeby—an exhibition of Ancient Egyptian times and artefacts.The Photography Department was involved in the production, installation and maintenance of a nine-projector audio-visual presentation in the Tjeby Exhibition.

Extensive work for curatorial departments continued through the year.

Library

The Library (established 1854) houses one of the finest natural history collections in Australia. It is an essential tool for the research and curatorial work of the Museum. It also forms part of the national collection of natural history literature of southeastern Australia.

The collection was further consolidated and developed during 1983-84. Monographs (338) needed were acquired and gaps in journal titles filled. The subject areas of Fish, Crustacea, Survey and Conservation were strengthened. The collection of museological and management literature was also built up. Subscriptions to periodicals were reviewed; 27 new subscriptions were placed.

Among the notable acquisitions were:

Meckel, J. F.
Ornithorynchi paradoxi descriptio anatomica. 1826. "One of the finest first anatomical descriptions of the Duck billed Platypus by a famous comparative anatomist." (Casey Wood p.457).

Linneaus, C.
Fauna Svecica sistens animalia Sveciae regni: Mammalia, Aves, Amphibia, Pisces . . . Ed. Altera, 1761.

Figures & descriptions of the fishes of Japan. Vol. 1-59; 1911-1958.

31 new Exchanges were established this year. Two-thirds of the current titles (1194) are received on exchange or donation. 697 of these are on exchange for the *Memoirs of the Museum of Victoria* and the *Occasional papers of the Museum of Victoria.*

Reference services have continued to be an important aspect of the Library. The demand for bibliographies, literature searches (both manual and computer-based) and enquiries increased during 1983/84. There was also a greater use by outside researchers and students.

The number of Inter-Library Loan (ILL) requests from other Libraries continued to increase indicating the strength and uniqueness of this collection. 515 requests were filled.

574 items were fully catalogued during 1983-84. This included some re-cataloguing of older and inadequately catalogued material.

Pre-1800 imprints have been entered in a Catalogue of Pre-1800 Imprints held in Victoria.

The Map Collection has been re-organised and catalogued fully.

Conservation needs of the library were further addressed this year. A systematic programme of leather dressing was instigated. The Rare Book Collection was treated by SLV leather dressers. Volumes in potential danger and those needing repair have been identified and listed to be attended to in the future. Binding of current journals continues.

Miscellaneous archival material, including plans of the building, have been sorted, identified and catalogued through the year.

Material, presumed duplicates, has been examined and recorded. Missing issues of both monographs and journals were located in this exercise.

An exhibition of 18th Century books was held in Spencer Hall in conjunction with the National Gallery's Great 18th Century Exhibition. Staff and the public expressed interest and support that this 'hidden' part of the Museum should be on display.

The Librarian examined existing library software packages as to the suitability to the Library. It is hoped that an on-line catalogue can be introduced soon.

The Librarian supervised two RMIT Library students on 4 weeks field work as part of their course.

J. Cotter commenced work on an oral history programme for former and present staff of the (National) Museum of Victoria.

J. New continued to be involved in the 'Story of Victoria' Exhibition.

Both Librarians participated in the planning of a Resource Centre for the Children's Museum.

SCIENCE AND TECHNOLOGY

During the year under review the staff and functions of the Division of Science and Technology remained as they had been in the Science Museum of Victoria.

In July 1983 Mr F. J. Kendall, then the Director of the Division, presented a paper entitled "Increasing Public Access to Museums", to a plenary session of 1983 Conference of the International Council of Museums which was held in London from 24 July to 2 August 1983. This was the first time an Australian had been invited to present a paper at a plenary session of ICOM. Dr H. J. Downing made two trips to London, during which he carried out research for a catalogue of scientific instrument makers who operated in London between 1840 and 1900. The catalogue will be produced with the title "Scientific Instrument Makers of Victorian London, 1840-1900". Dr Downing also attended the ICOM Conference in London.

The program to convert the Science and Technology Collection records to a computer-based catalogue was completed and the entire collection records are held in a format which allows access and retrieval to each record from a number of entry points. The new catalogue facilitates a greater use by staff and services much wider public access than was previously possible.

Engineering and Transport

Collections: Due to the physical size and weight of many items, the Collection occupies a major portion of the Museum's rapidly diminishing storage space. Additional off-site warehouse storage is required for the near future if the collections are to continue to be developed in line with the existing collection policy. A considerable number of items were obtained for the Collection including a 1951 Messerschmitt three wheel car, a 1964 Morris Mini Cooper S motor car, a 1950 Ariel Square four motor cycle and a 1984 high technology Yamaha RZ250K motor cycle.

During the year the department was involved in a number of small temporary public programme events which included: B.P.'s solar powered vehicle, the "Quiet Achiever", went on display following its successful crossing of Australia from Perth to Sydney, the first for a car of this type. The drivers, Hans Tholstrup and Larry Perkins, attended the official opening. Australia Post featured the Thomson Steam Car in a new series of stamps and also obtained the vehicle on loan for inclusion on the Australia Post float in the Moomba Parade. The passengers were dressed in period costume and the event was particularly successful. The Honda CBX 1000 Motor Cycle was specially built for road-testing purposes prior to actual production and it features most of the new technology employed in current high speed touring motor cycles. It was displayed in the Swanston Street foyer for a short period following donation by Honda Australia.

Heritage Activities: The curator represents the Museum on a number of Committees which deal with relevant aspects of cultural heritage. The Industrial History Committee of the National Trust of Australia (Victoria) deals with industrial sites and associated fixed and movable artefacts and members undertake field trips and prepare citations for approval by the Committee as part of the process of obtaining Classification by the Trust. Information obtained through this involvement has been particularly helpful in considering additions to the collections.

The Victorian Heritage Plan Working Group of the National Trust of Australia (Victoria) was formed to prepare the Trust's response to a discussion paper issued by the Ministry for Planning and Environment which is titled "A Future for the Past – A Discussion Paper on the Victorian Heritage Plan".

The "Puffing Billy" Museum Review Panel was formed by the Emerald Tourist Railway Board to review the operations of the Menzies Creek Museum and to provide expert advice on short and long term objectives which will enhance those operations.

The National Association of Testing Authorities, Australia established the first independent laboratory accreditation scheme, the model for which has now been adopted in major manufacturing countries with the result that certification of manufactured products under the strict terms of reference of registration by the Association are now internationally acceptable. The scheme embraces all scientific and technological fields for which certified quality assurance of product or performance is a prerequisite.

Numismatics

Research: A long term project of investigation of the first minting facilities established in Melbourne was completed, and a paper offered to the Numismatic Association of Victoria. The mint, known as the Kangaroo Office, produced a number of tokens and medals from the mid 1850s. Research centred on the four gold pieces which are normally considered to have been struck as tokens. The traditional arguments in favour of this interpretation were found to be incompatible with the chronology of the period, and advertisements were found which indicate that the pieces should be considered as medals struck as mementoes of the Victorian gold rush. This finding greatly modifies understanding of the early stages of numismatics in the Colony. Research into the role of the Melbourne Mint in the production of Commonwealth coinage has uncovered some major developments in the period 1919 to 1924. It has also shown the importance of combining research of archival and numismatic material in identifying the origins of Australian coins in this period.

Cataloguing: Work has again proceeded on the reorganisation and cataloguing of the collection and has revealed a great deal of information about the strengths and importance of a number of areas of the collection. The importance of the holdings of Canadian coins has, until now, been greatly underestimated as this collection has been found to contain a large number of specimens and proofs that are not held elsewhere in the world. The incorporation of Melbourne Mint Collection material with the Museum's holdings of coins issued by nations of the British Commonwealth has also been found to establish a collection of international importance. The Wodak collection, donated in early 1983, has now been incorporated with Museum holdings and again collections of considerable significance in the areas of Indian State issues and of Chinese Charms have been established.

Acquisitions: No major donations were made to the collection during this period. However, a large number of donations of modern world minor denominations have been of great value in keeping the collections up to date. A number of important purchases have been made, mainly in the area of Australian gold coins. Some twenty Australian sovereigns have been added to the collection as part

of the policy to complete this important series. In addition the holdings of Australian tokens, already the most important in the world, were improved by the addition of an unissued pattern prepared for the Tasmanian issuer Hedberg. The Roman series was expanded by the addition of a gold aureus struck for Julius Caesar. Public interest in the collection has remained high. It is centred mainly in the identification of foreign and ancient coins. Tertiary institutions continue to make use of the collection; some work has been undertaken to assist the Department of Architecture at Deakin University with a project related to low relief sculpture.

Rural Science

Centenary of H. V. McKay's Stripper Harvester: February 1984 represented the centenary of the invention of McKay's stripper harvester. To mark the occasion a special display was prepared and it featured material from the Museum's Archives relating to the development of the stripper harvester and McKay's wider contributions to Australia. The opening was attended by a large number of the McKay family and other dignitaries. At the opening the McKay Charitable Trust announced a grant of $20,000 to the Museum for the acquisition of a significant item for the collection. The Museum also proposed and supported the production of a half-hour television documentary on McKay by the ABC entitled "The Sunshine Man". The film was screened on the national program 'Countrywide' and generated widespread interest.

Another project related to the McKay centenary involved the location of a "Sunshine" harvester on behalf of the Science Museum in the United Kingdom. With the help of the ABC and a number of museums in country Victoria (particularly Pioneer Settlement, Swan Hill and Wheatlands, Warracknabeal) a number of suitable machines were found. These have now been documented and reports forwarded to the Science Museum. The Museum anticipates that the selection, purchase and shipment will be organised before the end of 1984.

Research: A major departmental research project for the year has been to identify steam traction engines manufactured in Australia and if possible to locate surviving examples. Two extant machines were located. Negotiations are now in hand to acquire one for the Museum's collection.

H. V. McKay Planetarium

Major improvements to the Planetarium were carried out in 1984. An automatic control system was installed and interfaced with the existing special effects projectors and fifteen new carousel projectors. Programmed by an Apple IIe computer, the control system now allows the presentation of more complex shows and ensures a consistently high standard of presentation.

The first public show presented with the new equipment was entitled "Our Place in Space" which looked at the earth's address in space. Four other public shows were presented during the year attracting a total audience of 26,869 people. The Planetarium was again extremely popular with school groups. The newly installed control system has allowed the scheduling of additional school sessions but the demand still exceeds the Planetarium's current capacity. 27,681 school children attended the shows, offered for students from year 5 to 12. Overall attendances indicate that the popularity of the Planetarium is increasing.

Arms

Collections: The appointment of a temporary Technical Assistant in August made it possible for a number of problem areas to be assessed and it was pleasing to be able to identify and classify the small, but technically important collection of 19th century artillery projectiles. These projectiles are also historically important as they were donated by the Victorian military forces and were among the first objects to be received into the Arms Collection.

Work on collection items has included completion of the first stage of restoration of a model 1884 Gatling gun and the commencement of work on a Maxim Nordenfelt machine gun. Both weapons are significant examples of developments in the evolution of firearms. The major research project during the year has been continuing research into the life of John Blanch, Melbourne's first gunsmith. Contact has been made with descendants living in Melbourne and information connected with his personal life has been obtained. Research on the early defences of Victoria led to the locating of a further five artillery pieces once used by the colonial forces. These have been added to the list of those already recorded at the Museum.

Public Demonstration: In August 1983 a successful public demonstration of the traditional art of Japanese sword polishing was arranged and held in the Museum. The demonstration was given by Mr Yamada Kenzan, master sword polisher and Vice President of the Japanese Swordsmiths Guild. As a gesture of good will Mr Yamada presented a fine Tsuba to the Museum.

Public Enquiries: Public enquiries continue to require a significant amount of time and a total of 365 enquires were received and answered. Among the more complex of the enquiries was a request from the Group Archivist of the A.N.Z. Bank to inspect and assess the small collection of firearms held by the bank. Advice and information was also provided to 32 Supply Battalion, a unit of the Australian Army to assist in the restoration and mounting of two artillery pieces from the old Victorian naval vessel H.M.V.S. Nelson, at Broadmeadows base.

Acquisitions: A considerable number of items were acquired for the collection the most noteworthy being a Webley Longspur percussion revolver, a three barrelled shotgun/rifle with Australian motifs and a selection of modern archery equipment to complement the early crossbows in the collection. The donation of a World War 2 Australian Army nurse's uniform was a welcome addition to the small but growing collection of Australian militaria.

Electronics

Interactive Displays: "Musequiz", the first of the Museum's interactive microcomputer displays, went into operation this year. Based upon an Apple computer, the screen asks visitors about objects on display in the Museum. If the visitor answers more than two out of five questions correctly, then he or she is rewarded with a short video game. The questions are randomly selected from a pool of questions.

Collections: Appointment of a temporary Technical Assistant allowed rationalisation of the physical storage of the Collection. Catalogued objects can now be located speedily and like objects are physically grouped.

Photography

A wide range of activities were carried out associated with the curatorial role in photographic technology and the social aspects of historic and contemporary photography.

Many fine examples of technology were added to the collection during the year. A pair of 35mm motion picture projectors together with projection room equipment from the 1930s was donated; a French stereoscope viewer with 800 glass slides was purchased. The latter is currently on display.

The department supplied equipment and research material for several motion pictures and television series such as: We of the Never Never, Carson's Law, Waterfront, Smedly's Weekly, Simon Townsend's Wonderworld, and Hey Hey it's Saturday Night.

The photographer travelled to Great Britain, Europe, and the USA during the year visiting a total of 34 museums.

An exhibition brief was prepared for a major display of cinematography and photography material entitled "The Origins of Moving Pictures" which is to open in 1986.

Donations

Mr R. Ashton, Moorabbin—Drainage level by Samuel Dunn, Melbourne. Mr. R. L. Bates, Preston—"Cyclone" racing bicycle, circa 1918, and "Bates" ladies' bicycle, circa 1929. Mrs Catherine Bell, Killara, N.S.W.—Assay tools, apparatus and chemicals. Mr R. D. Brown, Little River—US Military payment certificates and Iran, 20 rials, 1937/39 A. D. Mr H. Carnall, Middle Park—Bullets and musket ball. Mrs M. A. Cocks, Reservoir—BSA "Aster" bicycle, badge and rule book. Mr A. E. Copland, Toorak—"Bendix" combination washing machine and warm air dryer. Cutroni Family, Williamstown—Clothes wringer. Mr & Mrs G. A. Dee, Strathmore—Ship models, bell and items of maritime memorabilia. Mrs E. Forsyth, East Kew—Perfume bottle, glove stretcher, glove hook and coin cases. General Television Corporation Pty. Ltd., Richmond—Video recording camera. Mr N. Govett, Mater Hill, Queensland—Gramophone records. Mrs R. Gunn, Hepburn Springs—Cameras, tripod, plate holders and lantern slide. Mrs M. Hetherington, Cranbourne—Pocket watch circa 1846. C. & E. Heywood Pty. Ltd., Abbotsford—Hooded piano box buggy. Mrs J. Hughes, Toorak—Shop tokens. Mr H. R. Jacksch, Syndal—Collection of watchmaker's tools. Mr Yamada Kenzan, Japan—Japanese sword guard (Tsuba). Mrs J. M. B. Lambert, East Malvern—Double barrelled 12 gauge shotgun. His Hon. Judge R. J. Leckie, Croydon—Coronation Silver Medal and Miniature, 1937 and double barrelled pin fire pistol, French. Prof. R. L. Martin, Clayton—Brunsviga desk calculator. Mr M. L. Nickson, Clifton Hill—Johnson "British Standard" calculator. Mr Nordon, Mont Park—Cummins and Wilson 35mm film projectors and projection room fittings. Mr R. G. Oliver, South Yarra—Batavus Bromviets moped. Miss J. Plante, Essendon—Captain's uniform, Australian Army Nursing Service (1939-46), Campaign Medals, badges, photographs and documents. Royal Melbourne Institute of Technology, Melbourne—Cameras, duplicator, tripod, and associated books and equipment. Mr J. R. Rodwell, Elwood—Aviation books and magazines. Mrs Sanders, South Melbourne—Built-in clock, barometer, thermometer and compass. Mr W. L. Sidebottom, North Balwyn—"Simpson" automatic washing machine, and helicopter rotor blade cross section. Mrs E. B. Stewart, Mount Waverley—Compound microscope and one slide, circa 1820-56. Mr C. E. Wallace, Brighton—Sample sewing silks. Gabriel & Rebecca White, Kew—Magneto electrical medical machine.

Purchases

Balance:	micro, chemical
Basket:	cane, laundry
Bicycle:	"Bickerton", folding, 1983
Bows:	compound bow
	crossbow
	long bow
	Samick reflex bow
	arrows and bolts for each
Bricks:	commemorative masonry bricks (3)
Bucket:	Victorian, enamel
Cash Register:	"National", circa 1910
Catalogue:	Melbourne Trade, 1881
Coins:	Aureus of Julius Caesar, Monier A. Hirtius
	Esseus Cambodia 1953 (3)
	Esseus French Oceania 1948 (3)
	Esseus French West Africa 1948 (2) 1956 (2)
	Esseus New Caledonia 1948 (2)
	Esseus Saarlands 1954 (3)
	Esseus Togo 1948 (3) 1956 (3)
	Esseus Tunisia 1950 (3)
	Half Daler copper plate Sweden 1715
	Kruger Rand South Africa 1975
	Iceni Ancient Britain 10 B.C. & A.D. 60
	Penny, Hedberg Australia, Pattern
	Sovereigns Australia (20)
	Stater Ceylon
Desks:	Wooden school, circa 1940's (6)
Guns:	bullet assembly equipment
	components for Lee Enfield charger loading rifle revolver, "Webley"
	shotgun, single barrel H/R 410 with accessories
	shotgun/rifle, three barrel twelve gauge
Horse Brass:	cast, with hunting emblem "Tally Ho"
Kettle:	cast iron, 4 pint
Lamp:	tin, barn
Models:	Chinese market gardeners van
	hay press
	ship models in glass bottles (3)
Motor Car:	Messerschmitt, 1951
	Morris mini Cooper S
Motor Cycles:	Ariel square four
	riding gloves and goggles
	Yamaha RZ250K
Piano:	"Beale", upright
	piano rolls and accessories

Sextant:	"Lilley & Son", brass, circa late 19th century
Shearing Equipment:	"Wolseley" electric, overhead gear and downpiece, circa 1920
Swords:	Asian (2) court

PUBLIC PROGRAMMES

Exhibitions

The Display Departments of the former National Museum of Victoria and the former Science Museum of Victoria continued to function as separate units but with increasing levels of co-ordination.

W. Baldwin Spencer and the Aborigines of the Northern Territory 1894-1912: This Exhibition has been shown at the following venues: Waverley City Art Gallery, The Australian Museum, The Albury Regional Museum, The Northern Territory Museum of Arts and Sciences, and The Flinders University Art Museum. It also was displayed at the Western Australian Museum and its branches.

Minerals Exposed: This Exhibition proved to be very popular and assisted in raising funds for the purchase of further mineral specimens for display. It is anticipated that this Exhibition will be incorporated in the permanent mineral displays of the Museum.

Tjeby (Long May He Live): This Exhibition, sponsored by ESSO Australia opened during International Museums Week. Over 60,000 people visited the Exhibition which is the most significant exhibition of Egyptian artefacts ever staged in Australia. Funds raised from this Exhibition will ensure that Tjeby, the Museum's mummy will be restored, conserved and permanently displayed for the people of Victoria.

Experilearn: On 26 September, 1983 the "Experilearn" interactive science display was opened. A joint venture of Monash University and the Museum of Victoria, this Exhibition featured some 30 "hands on" displays to encourage experimentation in physical and physiological subjects. Examples are the Echo Tube (where clapping the hands produces a sound like a ricochetting bullet), Spinning (how do ice-dancers control their speed?) and the Hand Battery (are you really able to generate your own electricity?).

The Exhibition has been highly successful with the public, with children leading their parents into first tentatively and then enthusiastically trying out some of the experiments. "Experilearn" helped the Museum to break down some of its slightly forbidding and serious image, while encouraging a sense of excitement through learning.

Heritage Week: Activities took the form of a programme of "Pastimes of Yesteryear" organised and presented by the Education Service and including calligraphy, peg dolls, scented soap balls and optical toys. The programme was aimed mainly at school children but was also available for participation by family groups. It proved to be a very successful and popular activity.

Paper Aeroplane Competition: This event held as part of the International Museums Day Celebrations was once again extremely popular. A total of 500 entrants competed for prizes provided by sponsors TAA and Hearnes Hobbies. The emphasis this year was upon accuracy of landing instead of distance of flight.

Preparators: The preparators have completed work on the moulding and casting of the dinosaur replicas from China. The backlog of curatorial work which accumulated during the Dinosaurs from China Project has now been cleared. The preparators designed and constructed two large dioramas for the Mallee Exhibition. This has required development of new techniques for the presentation and the preservation of plant material in a life-like form.

Education Services: The Education Programme was severely disrupted by renovations to the exhibition halls of the Museum. Nevertheless an education kit and book was produced for the Tjeby Exhibition, and educational material is being developed for the Mallee Exhibition.

Guides: Despite difficulties caused by the renovation of the Museum's galleries a very active guide service was maintained. A new cohort of guides was trained and services extended to week days as well as weekends. The activities of Guides are now being extended to cover all fields relevant to the Museum.

Most significant for the development of the Guide service was the appointment of Ms Penny Morison as Guide Co-ordinator. Funds for this part-time position have been provided by the Friends of the Museum and the Museum Council. It is anticipated that this service will continue to expand.

Friends: Immediately following the establishment of the Museum of Victoria, an Extraordinary General Meeting of Friends effected the change of name from "Friends of the National Museum of Victoria" to "Friends of the Museum of Victoria" . At the meeting, the President of the Museum Council outlined preliminary goals of the new organisation, after which Mr F. J. Kendall and his staff took more than 100 Friends behind the scenes into the Science and Technology Division's "Catacombs".

The Friends committed $4,000 per year for two years to the Museum to sponsor a part-time Guide Co-ordinator. They also contributed $3,000 to the Dinosaur Dig as well as providing a number of volunteers. The Friends continue to be a source of enthusiastic and able volunteers for Museum activities. Over 20,000 hours of voluntary effort is contributed annually. The Friends' list of potential volunteers exceeds 600 individuals.

The Programme Committee organized some 25 lectures and excursions many of which were given or led by senior Museum staff. In addition, an enthusiastic Children's Committee ran a series of 'do it yourself' programmes ranging from 'Touch Carts' to 'Fossil Finding' which were patronized with great gusto.

REPORT OF BUILDINGS MANAGEMENT COMMITTEE

The Buildings Management Committee was established under the *Museums Act 1983* and assumed responsibility for the Museum/State Library Works Programme, previously a responsibility of the former Building Trustees of the State Library, National Museum and Science Museum of Victoria. In accordance with the Act the Council of the Museum of Victoria has equal representation on the Committee with the Library Council of Victoria and must appoint the Chairman.

On 7 July 1983 Council of the Museum of Victoria appointed Professor J. W. Warren as Chairman of the Buildings Management Committee and Mr I. M. Hall as Council Representative on the Committee. On 2 August 1983 the President of the Library Council appointed Dean T. W. Thomas as his nominee and Mr S. A. Hawken was appointed Library Council Representative. Following changes to the Library Council, the President appointed Mr B. Johns as his nominee and Councillor P. Daham was appointed Library Council Representative on 17 April 1984.

In accordance with Section 16 (1) of the Museum of Victoria Act the following delegations of authority to the Buildings Management Committee were approved by the Council of the Museum of Victoria on 7 July 1983: the preparation of the Works Programme for the entire building; all recommendations to the Minister for the carrying out of works; all financial authorities relating to the execution of the Works Programme; and all necessary authorities to enable the effective carrying out of those responsibilities previously undertaken by the Secretary of the Building Trustees.

The Buildings Management Committee had its inaugural meeting on 16 August 1983 and met on six occasions during the year. Major issues considered by the Committee are summarised below.

Safety Committee: On 27 October 1983 the Buildings Management Committee established a Safety Committee for the Museum/State Library complex with elected representatives drawn from Museum and State Library staff. The Safety Committee held its first meeting on 9 February 1984 and met on four occasions during the year to consider a range of issues including conduct of fire drills, emergency training of staff, storage of flammable materials, distribution of safety equipment, and asbestos.

Structural Survey: In April 1984 the Committee received a structural report on the complex prepared at the instigation of the previous Building Trustees. The Report is to be used as the basis for preparation of a long-term maintenance programme for the complex and to enable early assessment of urgent and essential works.

Asbestos: During the year concerns were expressed at the possible existence of asbestos in the complex. At the request of the Safety Committee, Public Works Department experts inspected the backing to light switches on the second floor of the Dome Building and advised that compressed asbestos cement sheeting in use was in a safe condition. Asbestos lagging was found to be in use around heating pipes in the Boiler Room and immediate measures were taken to have the asbestos removed and replaced with acceptable material. All asbestos removal was carried out by experts using accepted techniques to avoid any risk to staff.

The Buildings Management Committee has asked the Ministry for the Arts to arrange for an urgent report identifying the location of any asbestos in the building, with recommendations as to action necessary to avoid any risks to the health of staff. The removal of asbestos lagging from the Boiler Room was completed.

Delays to Works Programme: On 26 April 1984 the Committee agreed that the Chairman should write to the Minister for the Arts expressing concern at the delays to the Works Programme and the implications of any large under-expenditure of 1983/84 funds on future programmes. The Chairman was also to ask the Minister to seek an explanation for the delays from the Minister for Public Works. Particular concern was expressed at delays to major safety works.

Works Programme: The total allocation for the year was $1,648,000 including $460,336 for purchase of the Dovers Building in Drewery Lane and $177,000 for the renovation of that building. Actual expenditure for the year was $1,274,228. Although the purchase of the Dovers building by the Government was finalized in November 1983 renovation work could not commence until final Public Works Architect's drawings had been prepared and approved.

Electrical works: The major project undertaken was electrical improvements associated with the renovation of McCoy Hall. The work will be completed early in 1984/85. Final expenditure was $42,931 out of an allocation of $94,000.

Thermal alarms: Work was largely completed on the installation of thermal alarms in the fourth and fifth floors of the State Library Reading Room but final cleaning up of redundant wiring was delayed due to the urgency of electrical work in McCoy Hall. Final expenditure was $15,224 out of an allocation of $41,000 and Public Works advised that original estimates for work were too high.

Roof repairs: Repairs were completed to the Coin Room, Carpenters' Workshop, Swanston Street Public Toilets and Barry Gallery roofs and repairs were commenced on the Abbotsford Annexe roof. Although Public Works forecasts had anticipated full expenditure, only $54,719 was expended from the allocation of $80,000.

Safety/Security: Work was completed on the new fire escape from the Lower Swinburne Classroom and fire hoses and boxes were upgraded. The installation of new fire doors in the La Trobe Library was commenced and will be completed early in the new year. It was also anticipated that work would commence on fire escapes in Benson and Palmer Halls but this did not eventuate. Contingency plans were drawn up for the fitting of safety grilles to basement windows and an escape ramp from Verdon Gallery but there was insufficient time to include these items in the current programme.

The progress of Safety/Security Works was quite unsatisfactory, much of the work not commencing until the latter part of the year, and the final expenditure of $53,043 out of an allocation of $121,000 is indicative of the lack of progress. This was continually brought to the attention of Public Works.

Small but important projects completed included, renovation of the marble stairwell on the south side of the building and installation of curtains in some exhibition areas. The major project undertaken was the renovation of McCoy Hall which was well advanced at year's end with a final expenditure of $410,028 from an allocation of $411,000.

The allocation for display equipment provided much needed audio-visual and photographic equipment for the State Library and Museum. Final expenditure was $36,607 out of an allocation of $40,000.

Among the most important projects was the improvement of facilities for handicapped people. Access has now been provided through the La Trobe Street entrance, incorporating a porch lift for wheel chairs or persons unable to negotiate steps; two Stairmates were purchased to assist people unable to climb stairs within the Museum; work has commenced on a toilet facility for handicapped people; and plans are being drawn up for the provision of an emergency ramp from the Verdon Gallery fire escape.

APPENDIX 1

Museum of Victoria Council

President
Professor J. W. Warren, MA PhD

Deputy President
Mr D. H. Kemp, BSc

Treasurer
Mr D. C. L. Gibbs, MA

Other Members
Ms P. Adam-Smith, O.B.E.
Mr I. M. Hall, BSc BEd
Professor F. R. Jevons, MA PhD DSc
Ms J. L. Lennon, MA
Mrs S. J. Myer
Mr A. P. Reeves BA(Hons), MA
Dr A. G. Serle DPhil, BA FAHA FASSA
Dr H. N. B. Wettenhall, AO MD BS FRCP FRACP

Executive Officers
Mr F. J. Kendall, BAgrSci MAIAS AMAA
Dr B. R. Wilson, BSc(Hons) PhD FTS

Secretary
Mr P. G. Ross, DPA

APPENDIX 2

Staff as at 30 June 1984

Acting Director

F. J. Kendall, BAgrSci MAIAS AMAA

Division of Natural History and Anthropology

Director
B. R. Wilson, BSc(Hons) PhD FTS

Deputy Director
T. A. Darragh, MScDipEd

Administration
D. N. Anderson (Officer in Charge)
L. Anderson
J. Freeman
M. Hutchison
H. Martin
E. Rowley
K. Traynor
vacancy

Library
Librarians: J. New, BA ALAA, J. Cotter, BSc DipLib
Clerical Assistant: L. Stefani

Zoology

Senior Curator in Zoology: B. J. Smith, BSc(Hons) PhD AMAA
Technical Assistant: R. Plant

Department of Mammalogy
Curator: J. M. Dixon, BSc(Hons)
Technical Officer: L. Huxley, BSc

Department of Ornithology
Curator: A. R. McEvey, BA
Technical Assistant: B. A. Gillies, BA DipEd

Department of Herpetology
Officer-in-Charge: A. J. Coventry

Department of Ichthyology
Curator: M. F. Gomon, BSc MSc PhD

Department of Invertebrate Zoology
Curator: C. C. Lu, BSc MSc PhD
Assistant Curator: S. Boyd, BSc
Technical Officer: J. U. Phillips

Department of Entomology
Curator: A. Neboiss, MSc PhD FRES
Assistant Curator: K. L. Walker, BAgrSc MSc
Technical Officer: C. J. McPhee BAgrSc

Department of Crustacea
Curator: G. C. B. Poore, BSc(Hons) PhD

Department of Biological Survey
Survey Officer: J. D. Blyth, BSc(Hons)
Assistant Survey Officer: A. L. Yen, BSc(Hons) PhD
Technical Assistant: P. Lillywhite

Geology

Department of Mineralogy and Petrology
Curator: T. H. Rich, AB MA PhD
Technical Assistant: E. Thompson

Department of Vertebrate Palaeontology
Curator: T. H. Rich, AB MA PhD
Technical Assistant: E. Thompson

Department of Invertebrate Palaeontology
Curator: P. A. Jell, BSc(Hons) PhD
Assistant Curator: D. J. Holloway, BSc(Hons) PhD
Technical Assistant: P. Clark

Anthropology

Curator: R. Vanderwal, BA DipMus MA PhD
Assistant Curator: C. M. Hogarth, BA
Technical Officer: G. H. Sculthorpe, BA Dip Museum Studies
Aboriginal Liaison Officer: K. Koumalatsos

Division of Science and Technology

Acting Director
C. V. Finlay, MIE Aust.

Research Scientist
H. J. Downing, MAgrSc BEd BA PhD

Curator of Astronomy
R. A. Hirst, BSc(Hons) PhD DipEd

Curator of Engineering
W. L. Sidebottom, BSc

Curator of Electronics
G. D. S. Holden, DipChem

Curator of Rural Science
M. L. Hallett, MAgrSc DipEd

Curator of Numismatics
J. P. Sharples, MA

Curator of Arms
J. R. Fielding

Display Officer
P. A. Dillon, DipIndDes

Librarian
B. L. Armstrong, GradDipLib

Artist & Display Assistants
S. Grieve, DipArt(Graphic Design), Z. Lazarevic, DipIndDes, M. D. Patullo, DipArt(Graphic Design)

Photographer, Grade II
E. McGillivray, DipArt & Design(Photog.)

Photographer, Grade I
vacant

Technician
D. S. Babare

Technician Assistants
L. M. Carter, J. W. F. Lipper, J. E. Cozens

Administration
E. Brown, R. K. Dale, L. Gaylor, E. D. Ebdon, J. Witzand

Education Service:

Teachers
P. Bullen, BSc DipEd, S. Howard, BEd Cert.A., P. Lyons, DipTeaching, E. Maxsted, DipTeaching, E. Y. Shields, BA DipEd, P. Spencer, BSc DipEd

Clerical Assistant
E. McCarthy

Temporary Appointments:

Registrar
J. O'Connor, BA GradDipLib

Curator of Special Projects
E. Willis, MA DipLib (from 14.5.84)

Assistant, Arms
N. D. Schulz, BSc (28.7.83 to 29.6.84)

Assistant, Astronomy
Z. F. Karlovic

Assistant, Computer
G. R. Sheldon, BA (26.7.83 to 29.6.84),

Assistant, Display
J. L. Fleming, DipArt(Creative Art) (25.7.83 to 29.6.84)

Assistant, Engineering
R. Allen (18.7.83 to 29.6.84)

Assistants, General
R. Engdahl (18.7.83 to 29.6.84), R. Martyn, BA (18.7.83 to 29.6.84)

Assistant, Library
B. V. Jacobs, BA GradDipLib (25.7.83 to 29.6.84),

Assistant, Numismatics
A. J. Simpfendorfer (25.7.83 to 29.6.84)

Assistant, Research
J. Stavrinidis BA (18.7.83 to 29.6.84)

Assistant, Rural Science
J. E. King, BSc (1.3.84 to 29.6.84)

Honorary Service

Computer
C. Herman (from 12.6.84)

Electronics
S. D. Chivers, BSc

Rural Science
L. Sprunt

Interpretative Services

Head of Interpretative Services
E. McClellan, BSc(Hons) PhD DipEd

Secretary
J. Freeman

Conservation

Senior Conservation Officer
Vacant

Conservation Officer
M. R. Perkins, BAgrSc DipMuseum Studies

Exhibitions

Display Officer
A. G. Soliman, BA MA(Decor Art)

Deputy Display Officer
L. Mitchell, Cert. Art DipInd Design TTSC

Display Assistants
S. Lucey, DipArt, J. Challis, DipArt

Preparators

Senior Preparator
M. G. Traynor

Preparators
B. Hall, K. Kelly, P. Swinkels, A. Love

Photography
F. Coffa, DipArt(Photo Illus) BA

Education Services
R. N. Miller, DipArt (Illust) TPTC (Officer-in-Charge), K. Aulsebrook, DipTeaching (Primary), T. M. Buck, DipTeaching (Primary), H. Edmonds, BA DipTeaching (Primary), R. A. O'Shea, DipArt DipEd, R. Taylor, BA BEd TPTC

Typist
V. McCormack

Division of Management Services

Secretary, Museum of Victoria
P. Ross, DPA

Accountant/Assistant Secretary
A. Brydon, AASA

Administration
I. Afif, H. Butters, C. Dimech, L. Hoare, E. Russell, E. Sinclair, BComm, D. Walsh, D. Ward-Mulhearn, G. White, L. Woodgate

Supervisor, Safety/Security Staff
T. Duke

Deputy Supervisor, Safety Security Staff
J. Barclay

Safety/Security Staff
J. Allen, G. Angelopolous, A. Ashton, L. Attard, C. Bonavia, A. Bonica, L. Brain, R. Brook, A. Bunston, A. Constandaras, A. Cotter, R. Crosby, J. Cutajar, K. Dewhurst, K. Doppel, N. Douglas, W. Dunn, P. Ebert, A. Gardiner, P. Ginn, W. Grech, C. Grundy, L. Grundy, K. Haines, R. Hanson, T. James, R. Joselin, P. Kilduff, J. King, M. Knight, W. Liddle, J. Longworth, J. McGuire, G. McKenzie, C. Parrini, P. Rayment, R. Rebeiro, M. Redmond (Junior), M. Redmond (Senior), D. Sibincic, J. Van Der Beek, J. Van Der Wolf, A. Wedmidski, G. Worsfield, C. Zikos

Foreman, Carpentry
H. Lamp

Carpenters
A. Bassett, R. Buzza, A. Di Beradino, M. Neighbour

Maintenance
N. Angeletos, M. Cini, G. Dounis, I. File, K. Hatzidakis, H. Hiotellis, N. Stassinopolous, G. Terpenou, G. Williams

STAFF EMPLOYED BY THE MUSEUM OF VICTORIA COUNCIL

AMSTAC Projects:

Sponge Researcher
F. Wiedenmayer, MSc PhD

Bass Strait
R. S. Wilson, BSc(Hons)

Vic. Marine Fishes
M. C. Blackburn, BSc

ARGS Projects:

Australian Isopods
H. M. Lew Ton, BSc

Data Base & Enquiry System
H. Bartoszewicz, M. J. Nichols

Zoological Catalogue
H. Handsjuk, BSc (Hons), M. Blackburn, BSc

ARGS Projects:

Palaeozoic Echinoderms
C. Parker, BSc(Hons)

Survey Branch Projects:

Corner Inlet
G. Morgan, BSc(Hons)

M.M.B.W. Identification
R. St. Clair, BSc

Thomson Collection Microfiche Catalogue
G. Ramsay, MA(Hons)

Dinosaur Replicas Project
K. Kelly, G. Bradshaw

Guide Co-ordinator
P. Morison, BSc

Museum Shop:

Manager
J. Williams

Senior Assistants
L. Vivian, M. Banks

Assistants
J. Parsons, D. Gofton, D. Green, L. Gye

Friends Administrative Assistant
C. Wendt

Council Liaison Officer
E. H. Newton, BA

APPENDIX 3
HONORARY POSITIONS

The following Research and Honorary Associates have given generous assistance with the work of the Institution during the past year. To them the thanks of the Council and Staff are extended.

FELLOW OF THE MUSEUM OF VICTORIA
Professor Sir Sydney Sunderland, CMG MD BS DSc HonMD(Tas, Qd) HonLLD(Melb, Mon) FRACP FRACS FAA

HONARARY CURATORS

Curator of Arms
Major E. J. Millett (R.L.) MBE MCIT

Curator of Astronomy
W. G. H. Tregear, DipCE MIEAust FRAS FBIS

HONORARY ASSOCIATES

Ornithology
Mr C. N. Austin, Mr N. J. Favaloro, Mr G. Pizzey, Dr P. V. Rich, Sir Henry Somerset, Mr R. Weatherly

Herpetology
Dr M. J. Littlejohn, Mr K. C. Norris, Mr P. A. Rawlinson, Mr C. Tanner

Mammalogy
Dr A. K. Lee, Mr J. McNally, Mr R. M. Warneke

Ichthyology
Mr Rudi Kuiter

Entomology
Mr A. N. Burns, Mr D. F. Crosby, Mr C. McCubbin, Dr T. R. New

Invertebrate Zoology
Dr A. Ayling, Mr K. N. Bell, Mrs I. Black, Mr P. Bock, Mr R. Burn, Mrs M. Drummond, Mr R. C. Kershaw, Mr A. E. Monger, Brother M. O'Loughlin, Mr D. Staples, Mrs J. Watson, Mr L. Winsor

Anthropology
Mr J. E. Atkinson, Dr A. H. Campbell, Mr D. F. Ellicott, Mr G. Walker, Mr N. M. Wallace, Miss J. P. Wiseman

Palaeontology
Mr A. C. Collins, Mr R. J. Foster, Mr E. D. Gill, Professor E. S. Hills, Dr J. Richardson, Dr J. A. Talent, Mr D. J. Taylor, Mr H. E. Wilkinson

Mineralogy
Dr A. W. Beasley, Professor J. F. Lovering, Dr E. R. Segnit

HONORARY WORKERS
Una Allen, Betty Argo, Robert Baird, Ernest Bannister, Tom Burchell, June Bolton, Iris Brailey, Marijana Cirvydas, Jean Clarke, Peter Corcoran, Margaret Day, Muriel Elden, Tom Gunn, Eva Haebich, Lyn Haupt, Enid Holmes, Dianne Howe, Joan Lamond, Lorna Lawrence, Betty Lush, Colin Macrae, Ellen McCulloch, Reg Moss, Robin Nettleton, Rosalind Poole, Elisabeth Robertson, Merrill Rowley, Ian Schafer, Pat Tuxen, June Van Zyl Viljoen

RESEARCH ASSOCIATES
Mr T. Flannery, Dr E. Fordyce, Mr R. Tait

Honorary Demonstrators in Astronomy:
B. S. Adcock, MEngSc BE DipEE MIEAust, K. Bambery, K. Beard, R. J. Blakie, V. Celna, B. A. J. Clark, BSc MAppSci PhD DipMechE FRAS, A. E. Coombs, BSc(Hons) DipEd, I. Downes, L. G. Foster, K. G. Fowler, E. Gainsford, K. R. Griffin, A. J. Guarino, D. A. Harding, N. J. Hargrave, MSc GradAIP FRAS, K. Harrison, R. Kelly, R. J. C. Lawrence, A. Le Marquand, ARMTC (deceased 15.12.83), S. Pattie, N. J. Plever, B. J. Poppleton, MSc PhD FRAS, J. H. Reeves, BA, L. Stevens, I. A. B. Sullivan, BA DipEd DipAppChem, J. B. Trainor, T. B. Tregaskis, MIEAust DipEE, W. G. H. Tregear, DipCE MIEAust FRAS FBIS, A. W. Walker, D. H. Walker, HDA MATA AISM, J. H. White, AASA ACIS

VOLUNTEERS
The following people have assisted the staff in the day to day tasks of the Museum Departments. They have contributed much to the efficient working of the institution and we gratefully acknowledge their assistance:— Vivienne Smith, Richard Evans, Geraldine Richards, Peter Myroniuk, Natalie Schroeder, Philip Eagles, Simon Townsend, Helen Bartoszewicz, Ellie Hamilton, George Chomiak, Sandi Kogtevs, Christine Shankly, Jack Greaves, Sandra Hendrickx, Puloma Mukerjee, Craig Cleeland, Richard Kay, Jennifer Laby,Wendy Moore, John Saul, Mark Chandler, Sally Fletcher, Linda Gibson, Helen Laffin, Joan Nanson, Fiona Scales, Pat Skoufis, Lesla Sutton, Elizabeth Triarico, Alexandra Schall-Riaucour, Barry Patterson, Jo Willey, Melanie Raberts, Sheila Waters, Kaye Wilson, Amanda Britton, Diana Britton, Robert Parrett, George Chomiak, John Coyne, Mary Firminger, Shane Lepage, Robert McBain, Geraldine Richards

Volunteer Guides
Peter Baitz, Helen Bartoszewicz, George Chomiak, Jennesse Corry, Fiona Dawson, Graeme Dawson, Sue Dawson, Max Dean, Margaret Gonshor, Noelene Gruar, Peter Heazlewood, Ruth Irving, Nigel McGillivray, Penny Morison, Jo Price, Bob Tranter, Elaine Tranter, Nancy Tsernjavski, Anne Wilson

APPENDIX 4

Membership of Council Committees – 1983/84

1. Executive Committee

President
Prof. J. W. Warren

Deputy President
Mr D. H. Kemp

Treasurer
Mr D. C. L. Gibbs

Director, Natural History and Anthropology
Dr B. R. Wilson

Director, Science and Technology
Mr F. J. Kendall

Secretary
Mr P. G. Ross

2. Buildings Management Committee
Prof. J. W. Warren, Mr I. M. Hall, Mr B. Johns, Mr P. Dahan, Mr P. Ross, Ms E. Sinclair (Sec.), Ms S. Accut, Ms J. McPherson, Justice Starke, Mr S. Godfrey, Dr B. R. Wilson, Mr F. J. Kendall

3. Structure and Resources Committee
Mr D. H. Kemp (Convenor), Dr H. N. B. Wettenhall, Mr A. Reeves, Dr B. R. Wilson, Mr F. J. Kendall, Dr T. A. Darragh, Mr. P. Ross, Mr G. D. S. Holden, Mr M. L. Hallett, Dr P. A. Jell, Dr E. McClellan, Dr R. Vanderwal

4. Community Relations Committee
Dr H. N. B. Wettenhall (Convenor), Mr D. H. Kemp, Dr A. G. Serle, Mr D. C. L. Gibbs, Mr A. Reeves, Dr B. R. Wilson, Mr F. J. Kendall, Dr E. McClellan, Ms J. Maxted

5. Education Committee
Mr I. M. Hall (Convenor), Prof. F. Jevons, Mr R. Miller, Dr R. A. Hirst, Ms D. Bianciardi, Dr B. R. Wilson, Mr F. J. Kendall

6. Social History Committee
Mr A. Reeves, Ms J. Lennon, Dr A. G. Serle, Dr B. R. Wilson, Mr F. J. Kendall, Dr E. McClellan

7. Science and Humanities Committee
Dr H. N. B. Wettenhall, Sir T. Ramsay, Sir W. Dargie, Prof. R. Home, Dr B. R. Wilson, Ms A. Derham, Mrs M. Tipping, Mr A. R. McEvey, Dr T. A. Darragh

8. Aboriginal Matters Committee
Prof. J. W. Warren, Mr B. Baxter, Mr J. Berg, Mr L. Clarke, Mr P. Edwards, Ms V. Heap, Mr A. Mullett, Ms J. Lennon, Mr J. Combo, Ms K. Edwards, Ms E. Hann, Mr R. Marks

9. Museum Shop Committee
Mrs S. J. Myer, Mr F. J. Kendall, Mr P. Baker, Mr D. C. L. Gibbs, Mr J. Williams

APPENDIX 5

Publications by Museum Staff

Andrew, D. L., Lumsden, L. F. and Dixon, J. M., 1984. *Sites of Zoological Significance in the Westernport Region*. Prepared for the Environmental Studies Division, Ministry for Conservation, Victoria. Department of Conservation, Forests and Lands, Melbourne. 425 pp.

Baird, R. F., 1984. The Pleistocene distribution of the Tasmanian Native-hen. *Gallinula mortierii mortierii*. Emu, 84 (2): 119-123.

Barnard, J. L. and Drummond, M. M., 1982. Discovery of *Cheirocratus* (Crustacea: Amphipoda) on Australian shores. *Proc. R. Soc. Vict.*, 94: 107-120.

Barnard, J. L. and Drummond, M. M., 1982. Redescription of *Exoediceros fossor* (Stimpson, 1856) an Australian marine fossorial amphipod, the type-genus of the new family Exoedicerotidae. *Proc. biol. Soc. Wash.*, 95: 610-620.

Barnard, J. L. and Drummond, M. M., 1984. Redescription of *Notoediceros tasmaniensis* Bonsfield and a note on the synonymy of *Warreyus* Barnard and Drummond with *Exoediceroides* Bonsfield (Crustacea: Amphipoda: Exoedicerotidae). *Proc. R. Soc. Vict.*, 96: 25-32.

Birch, W. D., 1983. A note on vesuvianite from the Zinc Corporation Mine, Broken Hill, New South Wales. *Aust. Mineral.*, 44: 253-4..

Birch, W. D., 1983. Zincian dolomite from Broken Hill, New South Wales. *J. geol. Soc. Aust.*., 30: 85-7.

Birch, W. D., 1983. Babingtonite, fluorapophyllite and sphene from Harcourt, Victoria, Australia. *Min. Mag.*, 47: 377-80.

Birch, W. D., 1983. Rhodochrosite crystals and other mineral discoveries at Broken Hill, New South Wales. *Aust. Mineral.*, 44: 256-7.

Birch, W. D., 1983. Palaeozoic acid volcanism in Victoria. *Proc. R. Soc. Vict.*, 95 (4): 205-25.

Birch, W. D., 1984. Fluorapophyllite from Harkaway, Victoria. *Aust. Mineral.*, 45: 264-5.

Birch, W. D., 1984. Roepperite from Broken Hill (New South Wales) is ferroan tephroite. *Min. Mag.*, 48: 137-9.

Blyth, J. D., 1984. Rapid stream survey to assess conservation value and habitats available for invertebrates. In "Proceedings of the Workshop on Survey Methods for Nature Conservation." Aug. 31–Sept. 2, 1983, Adelaide University. (Eds. Myers, K., Margules, C. and Mustoe, I.) CSIRO: Canberra, pp. 343-75.

Chow, M. and Rich, T. H., 1984. A new triconodontan (Mammalia) from the Jurassic of China. *Jour. Vert. Paleo.*, 3: 226-231.

Coates, D. and Hirst, R. A., 1984. Buying a Small Telescope for School. *Lab. Talk* 28 (1): 39-40.

Coventry, A. J. and Dixon, J. M., 1984. Small mammals from the Chinaman Well area, northwestern Victoria, *Aust. Mammal.*, 7(2): 107 & 111.

Flannery, T. F. and Rich, T. H., 1984. Dinosaur digging in Victoria. In M. Archer and G. Clayton, eds, *Vertebrate Zoogeography & Evolution in Australasia (Animals in Space & Time)*, Hesperian Press, Carlisle, W.A., 377-380.

Fordyce, R. E., Mattlin, R. H. and Dixon, J. M., 1984. Second record of Spectacled Porpoise from subantarctic southwest Pacific. *Sci. Rep. Whales Res. Inst.* 35: 139-64.

Gomon, M. F., 1984. FAO Species Identification Sheets for Fisheries Purposes. Western Indian Ocean (Fishing Area 51) Volume II – Labridae. 45 pp., 3 colour pll., numerous figs.

Gould, J., 1983. *The Mammals of Australia*, with modern notes by Joan M. Dixon. Macmillan, Melbourne. 416 pp.

Hogarth, C., 1984. Donald Thomson in Irian Jaya. Thesis, Graduate Diploma of Material Culture, James Cook University.

Holloway, D. J. and Jell, P. A., 1983. Silurian and Devonian edrioasteroids from Australia. *Journal of Paleontology*, 57: 1001-1016.

Jell, P. A., 1983. A fossil millipede from the Early Jurassic of Queensland. *Alcheringa*, 7: 195-199

Jell, P. A. and Baillie, P., 1984. *Stenaster obtusus* (Forbes, 1848) from the Early Silurian of Tasmania. *Journal of Palaeontology*, 58: 272-274.

McGillivray, E., 1983. Caring for Photographs. *Museum News (Vic.) Supplement to Museum News, (Vic.).* August: 1-2.

Reynolds, P. A. and Smith, B. J., 1983. National Museum of Victoria computer based record and enquiry facility. *Papers of the workshop on databases in the natural sciences, CSIRO, Brisbane*: 30-45.

Reynolds, P. A. and Smith, B. J., 1983. National Museum of Victoria computer based record and enquiry facility. *Museums Association of Australia Conference Papers, Melbourne*: 39-56.

Rich, P. V., and Rich, T. H., 1983. The Central American dispersal route: biotic history and paleogeography. In Janzen, D. H., ed., *Costa Rican Natural History*, Univ. Chicago Press: Chicago, 12-34.

Rich, T. H., 1983. The ancient butcher *Megalania prisca* and the largest marsupial *Diprotodon optatum*. In S. Quirk and M. Archer, eds, *Prehistoric animals of Australia*, Australian Museum, Sydney, 38-39, 62-63.

Rich, T. H., 1984. Australia's largest marsupial, *Diprotodon*, its ancestry, palaeobiology and extinction. In M. Archer and G. Clayton eds, *Vertebrate Zoogeography & Evolution in Australasia (Animals in Space & Time).* Hesperian Press, Carlisle, W.A., 995-998.

Rich, T. H. and Hall, B., 1984. Rebuilding a giant lizard: *Megalania prisca.* In M. Archer and G. Clayton, eds, *Vertebrate Zoogeography & Evolution in Australasia (Animals in Space & Time).* Hesperian Press, Carlisle, W.A., 391-394.

Rich, T. H., Molnar, R. E. and Rich P. V., 1983. Fossil vertebrates from the Late Jurassic or Early Cretaceous Kirkwood Formation, Algoa Basin, Southern Africa. *Trans. geol. Soc. S. Afr.*, 86: 281-291.

Smith, B. J., 1984. A brief history of the *Victorian Naturalist. Victorian Nat.*, 101 (1): 14-29.

Smith, B. J., 1984. Australian native snails. *Greenworld*, 2 (3): 14-15.

Smith, B. J., 1984. Snails from other countries. *Greenworld*, 2 (4): 14-15.

Smith, B. J., 1984. What is a slug? *Greenworld*, 2 (5): 16-17.

Smith, B. J., 1984. Worms. *Greenworld*, 2 (6): 14-15.

Strahan, R., 1983. (ed.) *The Australian Museum Complete Guide to Australian Mammals.* Angus and Robertson, Sydney. 530 pp. (Accounts of seven species by Joan M. Dixon).

Vandenberg, A. H. M., Rickards, R. B. and Holloway, D. J. 1983. The Ordovician-Silurian boundary of Darraweit Guim, central Victoria. *Alcheringa*, 8: 1-22.

Vanderwal, R. L., 1984. Kinomere Village Papua: Sixty Years After Hurley, *Bulletin of the Conference of Museum Anthropologists*, 14: 21-25.

Vanderwal R. L., Zabel, D. E. and Frankel, D., 1984. The Moonlight Head Rockshelter *Proc. R. Soc. Vict.*, 96: 1-24.

Wadley, V. A. and Lu, C. C., 1983. Distribution of Mesopelagic Cephalopods around a warm-core ring in the East Australian Current (Abstract). *Mem. Natn. Mus. Vict.*, 44: 197.

Woinarski, J. C. Z. and McEvey, A. R., 1983. Mortality in Pardalotes in Melbourne, 1960 to 1980. *Corella*, 7 (3): 55-59.

Worner, H. K. and Birch, W. D., 1983. A note on a tetrahedrite-galena eutectic intergrowth from Broken Hill, New South Wales. *Aust. Mineral.*, 44: 258.

APPENDIX 6

Extension Activities

Staff involvement in organisations relevant to the Museum's Activities.

Mr J. Blyth

Convenor, Victorian Chapter, Australian Society for Limnology.

Convenor and Chairman, Interdepartmental Group for Investigation of Environmental Research in East Gippsland.

Member, Task Force on Environmental Water Allocation in Victorian Streams.

Member, Working Group on Research and development in the Victorian Water Sector.

Member, Steering Committee on Environmental Studies in the Thomson River.

Member, Committee of the Victorian Stream Survey Group.

Dr W. D. Birch

Visiting Research Fellow, Department of Geology, University of Melbourne (reappointment to July, 1987).

Member, Commission on New Minerals and Mineral Names, International Mineralogical Association (IMA).

Australian Representative to the IMA.

Member, Editorial Board, Australian Mineralogist.

Editorial Referee, The Australian Gemmologist.

Committee Member, Mineralogical Society of Victoria.

Ms S. Boyd

Member, Ministry for the Arts Equal Employment Opportunity Consultative Committee.

Dr T. A. Darragh

Hon. Secretary, Royal Society of Victoria.

Member Editorial Board, Journal of the Malacological Society of Australia.

Member, Subcommittee on geological conservation, Geological Society of Australia, Victorian Division.

Miss J. Dixon

Associate, History and Philosophy of Science Department, University of Melbourne.

Member, Panel of Judges, 1983 Exhibition of the Wildlife Society of Australasia.

Dr H. J. Downing

President Elect, Museums Association of Australia Inc.

Member, Australian National Committee of the International Council of Museums.

Mr C. V. Finlay
Judge, Sn. Fred Thorpe Award 1983.

Ms B. Gillies
Review Editor, "Emu" journal of RAOU.

Mr M. L. Hallett
Committee Member, Victorian Branch, Museums Association of Australia Inc.

Dr R. A. Hirst
Community Education Member, Physics Subject Committee, Victorian Institute of Secondary Education.
Vice-President, Friends of the Museum of Victoria.
Compiler, "Astronomical Diary" for Science Teachers Association of Victoria's Journal "Lab Talk".

Dr P. A. Jell
President, Association of Australasian Palaeontologists.
Hon. Editor, Memoirs of the Association of Australasian Palaeontologists.
Hon. Editor, Royal Society of Victoria.
Member, Editorial Board, Geological Society of Australia.

Mr F. J. E. Kendall
Member of Executive, Council of Adult Education.
Chairman, Federal Committee on Tax Incentives for the Arts.
Statutory Member, Historic Shipwrecks Advisory Committee.
Member, Advisory Committee, MCC Gallery of Sport.

Mr P. Lillywhite
Member, Committee of the Victorian Stream Survey Group.

Dr C. C. Lu
Member, BIOMASS *ad hoc* Group on Squid Ecology, SCAR.
Member, Executive Council, Cephalopod International Advisory Council.

Mr A. R. McEvey
Scientific Associate, Royal Melbourne Zoological Gardens.
Member, Taxonomic Advisory Committee, Royal Australasian Ornithologists Union.
Member, Chisholm Collection Board.
Member, Science and Humanities Committee.
Member, Graduate Council, University of Melbourne.

Dr A. Neboiss
Convenor, Halls Gap Trichoptera Conference.

Mr J. P. Sharples
Judge, Victorian Council of Numismatic Societies.
Chairman, Examiners' Panels, HSC Greek History and Roman History, Victorian Institute of Secondary Education.
Industry Member, Greek History and Roman History Subject Committee, Victorian Institute of Secondary Education.
Industry Member, Classics Subject Committee, Victorian Institute of Secondary Education.
Hon. Editor, "Australian Numismatist", Journal of the Numismatic Association of Victoria.

Mr W. L. Sidebottom
Member, Industrial History Committee, National Trust of Australia (Victoria).
Member, Victorian Heritage Plan Working Group, National Trust of Australia (Victoria).
Member, Puffing Billy Steam Museum Review Panel, Emerald Tourist Railway Board.

Dr B. J. Smith
Vice-President, Field Naturalists Club of Victoria.
Convenor, Editorial Committee for the "Victorian Naturalist".
Member, South Gippsland Marine Reserve Steering Committee.
Member, Public Service Board, Scientific Officer Review Evaluation Committee.
Member, RMIT, Department of Applied Biology Course Review Committee.
Member, Museums Association of Australia Conference paper Review Committee.

Mr K. L. Walker
Editor and Council Member, Entomological Society of Victoria.

Dr B. R. Wilson
Fellow, Australian Academy of Technological Sciences.
Council Member, Victorian Institute of Marine Sciences.
Member, Zoological Board of Victoria.
Member, Committee on Data for Science and Technology (CODATA), Australian Academy of Science.
Member, Victorian Archaelogical Advisory Committee (Ministry for Conservation).
Member, Great Barrier Reef Committee.
Member, Editorial Board, 'Journal of the Malacological Society of Australia'.
Member, Editorial Board, 'Malacologia' (University of Michigan).
Member, Editorial Board, 'Monographs of Marine Mollusca' (Delaware).
Member, Fauna Sub-committee, Australian Biological Resources Study.

Dr A. L. Yen
Member, Committee of the Victorian Entomological Society.

APPENDIX 7

Lectures and Talks Given by Staff

Miss B. Armstrong
'Small Special Libraries' — Melbourne State College.
'Computer based cataloguing procedures used in the Science and Technology Library' — Government Department Libraries Unit.

Dr W. D. Birch
'Minerals of the Portland Quarry' — Nunawading Gem Club Mineral Group, March, 1983.
'Gold in Victoria' — Victorian Seeker's Club, April, 1984.
'Minerals of Victoria' — Dandenong Lapidary Club, May, 1984.
'Mineralogy of the Broken Hill Orebody' — University of Melbourne, Geology Department Seminar, July, 1983.
'Plate Tectonics' — Elwood High School, Year 11.

Mr J. Blyth
'Victorian Streams', 'Invertebrates of Freshwater in Victoria', 'Human Impacts on Victorian Streams' — topics of 15 talks.

Mr P. Bullen
'Printing Techniques' — Bookworm Club, Essendon Library.

Mr A. J. Coventry
'Reptiles' – Stawell Field Naturalists Club.
'Herpetological Survey in the Big Desert' – Friends of the Museum.

Miss J. M. Dixon
'History of Mammal Collecting in Australia' – Friends of the Museum.
'History of Australian Mammalogy' – Department of Zoology, University of Melbourne.
'Monotremes' – 3rd year lectures at Melbourne College of Advanced Education.

Dr H. J. Downing
'Museum of Victoria' – Sciences Club, Clunies Ross House.
'Museums and the Law' – Department of Museum Studies, Victoria College.

Mr R. Fielding
'Metal Techniques and Design in the Manufacture of Weapons – Department of Gold and Silversmithing, RMIT.
'Historical Resources in the Arms Collections of the Museum of Victoria' – Hastings Historical Society.

Dr M. F. Gomon
'Taxonomy in the Museum' – Victorian Institute of Marine Sciences, Summer Course on Marine Sciences, January, 1984.
'State of the Knowledge of Fish Taxonomy' – Marine Research Group of Victoria.
'Taxonomy of Victorian Marine Fish, State of the Knowledge' – Geelong Field Naturalists Club.
'Zoogeography of Australian Freshwater Fishes' – Zoology Department, Monash University.
'Classification of Victorian Marine Fish, State of the Art' – Zoology Department, La Trobe University.
'Taxonomy in the University: are students missing out?' – Zoology Department, Monash University.
'Fish Studies: Taxonomic, Ecological and Behavioural – if there was only time' – Zoology Department, University of Melbourne.

Mr M. L. Hallett
'The History of the Windmill in Victoria' – Department of Mechanical Engineering, University of Melbourne.
'The History of the Windmill in Victoria' – Agricultural Engineering Society (Aust.), Victorian Branch.
'Being a Curator – a personal view' – Department of Museum Studies, Victoria College.
'History of Wind Pumping in Australia' – Australian Wind Energy Association.
'The basis of museum documentation and cataloguing', 'The role of computers in museum cataloguing' and 'Computer cataloguing at the Museum of Victoria – a case study' – Department of Museum Studies, Victoria College.
'Cataloguing and Classifying' – Museums Association of Australia Inc., Victorian Branch Seminar.
'Development of Agricultural Technology in Australia' – Agricultural Engineering Department, University of Melbourne.
'The relationship between wheat yields and developments in science and technology in Australia' – Science Education Department, Melbourne State College.
'Information Management and Communication Techniques in Curating Museum Collections' – Applied Science Department, Victoria College.

Mr D. Henry
'Volcanoes around Melbourne' – Excursion for Maths/Science trainee teachers at Hawthorn Institute of Education, October, 1983.

Mr G. Holden
'Computer Simulations and Games' and 'Introduction to Computer Programming' – Department of Museum Studies, Victoria College.
'Choosing a Microcomputer' – Department of Museum Studies, Victoria College.
'A computer-astronomy display in the Museum' – Astronomical Society of Victoria.

Mr F. J. Kendall
'Preservation of Items of Transport' – Institute of Transport, Victorian Division, Annual Meeting.

Mr E. McGillivray
'Caring for Photographs' – Museums Association of Australia Inc., Victorian Branch, Seminar.
'Organising Photographic Archives' – Richmond and Burnley Historical Society.

Dr A. Neboiss
'Caddis-flies' – Yarra Valley Fly Fisherman's Association.

Mr M. Patullo
'Exhibition Design and Techniques' – Ministry for the Arts, Museum Resource Service Seminar and Museums Association of Australia Inc., Victorian Branch, Seminar.

Dr G. C. B. Poore
'Marine Coastal Habitats' – Friends of the Museum and led excursion.
'Marine Reserves: The role of museums in their establishment and management' – Victorian Branch, Australian Marine Sciences Association.

Mr J. P. Sharples
'1983 at the Museum' and 'Christmas Numismatics' – ANZ Numismatic Society.

Mr W. Sidebottom
'An introduction to the Museum of Victoria and the dating of early motor vehicles' – Veteran Car Club.

Dr B. J. Smith
'Regional endemism in Australian land snails' – Department of Zoology, La Trobe University.
'The Radula' – joint meeting of Victorian Branch of the Malacological Society of Australia and the Marine Research Group of Victoria.

Dr R. Vanderwal
'Kinomere and Frank Hurley' – Lecture, Australian Museum.
'Kinomere Village, Frank Hurley and Culture Change' – Seminar, LaTrobe University.
'Material Culture Research, Gulf of Papua' – Lecture, Michigan State University.
'Culture Change at Kinomere Village, 1921-1981' – Lecture, University of Hawaii.
'The use of photographic archives in anthropological research' – Seminar, University of Wisconsin.
'Tasmanian adaptations to a difficult environment' – Lecture, University of Wisconsin.
'Prehistoric Ecology in South West Tasmania' – Seminar, University of Auckland.
'Culture change at Kinomere Village, 1921-1981' – Seminar, University of Auckland.

Mr K. L. Walker
'Ants & Spiders' – Horsham Field Naturalists Club.
'Parasitic Wasps', 'Butterflies' – Victorian Entomological Society.

APPENDIX 8

Conferences Attended

(Papers presented appear in brackets)

Dr W. D. Birch
Workshop on Granites, Hydrothermal Solutions and Mineralisation. Centre for Advanced Studies in the Geosciences. Warburton, June, 1984.
Seminar 'Gemstones of Eastern Australia'. Mineralogical Societies of NSW, Victoria and South Australia. Sydney, June, 1984.

Mr J. Blyth
Workshop on Survey Methods for Nature Conservation, Adelaide University, September, 1983. (Rapid stream survey to assess conservation value and habitats available for invertebrates.)
Symposium on Interactions between Sediment and Fresh Water, Chisholm Institute of Technology, November, 1983. (The impact of interstitial fine sediment upon benthic invertebrates.)

Mr A. J. Coventry
Workshop on Reptile Identification in Relation to CITES Regulations for the Victorian Retail Traders Association, October 1983.

Dr H. J. Downing
Annual Conference, Museums Association of Australia Inc., Melbourne, October 1983. (Behind the Clocks—The Horology Collection of the Museum of Victoria.)

Dr M. F. Gomon
Victorian Institute of Marine Sciences summer course on Marine Sciences, January, 1984. (Taxonomy in the Museum.)

Mr M. L. Hallett
Annual Conference of Museums Associations of Australia Inc., Melbourne, October 1983. (Computers and Museums in Australia.)

Dr D. J. Holloway
Annual Conference, Palaeontological Association, Swansea, U.K., December 1983.

Dr P. A. Jell
Biennial Meeting, Association of Australasian Palaeontologists, Museum of Victoria, Melbourne, December 1983 (Convenor).

Mr F. J. Kendall
13th Annual Conference, International Council of Museums, London, July 1983. (Extending Public Access in Museums.)

Dr A. Neboiss
Fourth International Symposium on Trichoptera, Clemson University, South Carolina, USA, August, 1983. (Calocidae of North Queensland (Calocidae: Trichoptera).)

Mrs E. Shields
Annual Conference, History Teachers Association ('Women's Role in Society', and 'Medieval History').

Dr B. J. Smith
Eighth International Malacological Congress, Budapest, Hungary, September, 1983. (Regional endemism of the south-eastern Australian land mollusc fauna. The family Rhytididae, carnivorous land snails.)
Annual Conference of the Museums Association of Australia, Melbourne, October 1983. (National Museum of Victoria computer based record and enquiry facility.)
Australian Biological Resources Study Workshop on Data Interchange, Canberra, December, 1983.

Dr R. Vanderwal
Museums Association of Australia, Melbourne. (Kinomere Village, Papua: Sixty Years after Hurley.)
Aboriginal Culture Seminar, Aboriginal Advancement League, Thornbury.
Aborigines and Archaeologists Conference, Camp Jungai.
Australian Archaeological Association, Canberra.

APPENDIX 9

Visitors

Division of Science and Technology

Mr I. Ada, Department of Agriculture.
Mr C. Anzarut, President, French Chamber of Commerce.
Major M. T. Armstrong, Peninsula Light Horse, Re-enactment Group.
Mr K. Arnett, Don Lane Show, Channel 9 Television.
Mr R. Ashley, Deakin University.
Mr R. Barclay, Datapoint Corp. Pty. Ltd.
Ms R. Beeby, 'Age', News Reporter.
Dr D. Beechy, Australian Museum, Sydney.
Dr R. Bennet, Preston and Northcote Community Hospital.
Dr R. Bhathal, Assistant Director, Museum of Applied Arts & Sciences.
Mr J. Blackett-Smith, John Blackett-Smith Productions Pty. Ltd.
Prof. H. E. Bolton, Physics Dept., Monash University.
Mr D. H. Borchardt, Australian Bicentennial Authority.
Ms P. Brand, Pamela Brand Promotions, representing Michael Edgley Productions.
Prof. R. D. Brown, Chemistry Dept., Monash University.
Mr R. M. Burt, Manager, Standards Association of Australia.
Dr P. Cahalan, Director, History Trust of South Australia.
Mr D. Cahill, Maritime Archaeology Society of Victoria.
Ms B. Cameron Smith, National Parks.
Prof. M. J. P. Canny, Botany Dept., Monash University.
Mr Carrick, Consultant, International Cultural Corporation of Australia.
Mr L. Carlisle, Author.
Ms L. Coates, Museum of Applied Arts & Sciences.
Mr J. Coleman, Daryl Somers Show, Channel 9 Television.
Dr N. W. Coles, Research and Development Manager, Commonwealth Serum Laboratories.
Mr G. Collard, Emerald, Queensland.
Prof. J. N. Crossley, Computer Science/Mathematics Dept., Monash University.
Dr M. Dack, CSIRO.
Mr P. Daniels, Australia Post.
Mr M. Davey, Channel 10 Television.
Mr R. Davies, Curator, Caulfield Racing Club Museum.
Mrs Yoko Davies, Head, Japanese Section, Radio 3EA.
Mr B. Davis, Curator Sovereign Hill, Ballarat.
Prof. J. H. Day, Psychology Dept., Monash University.

Mr A. T. Dix, Chairman, Museum of Australia Interim Council.
Mrs J. Douglas, Consultant, Sydney.
Mr J. Eddy, Phillip Island Heritage Centre.
Mr P. Edgar, Dept. of Home Affairs, Canberra.
Mr R. Edwards, Executive Officer, International Cultural Corporation.
Mr L. Elliot, Channel 10, T.V. News Reporter.
Mr A. Ewart, University of Adelaide.
Ms M. Featherston, Consultant.
Prof. P. D. Finch, Mathematics Dept., Monash University.
Mr P. Fish, Editor, Australian Coin Review.
Mr A. Funston, Personal Assistant to Permanent Head, Ministry for the Arts.
Prof. S.C.B. Gascoyne, Mt. Stromlo Observatory.
Mr R. Gillette, Melbourne Steam Traction and Engine Club.
Mr M. Goddard, Australian Broadcasting Corporation.
Dr M. Gore, Head, Questacon, Canberra.
Mr A. Guild, Michael Edgley International.
Mr R. Gulletly, State Rivers & Water Supply Commission.
Sir Arnold Hall, FRS, President-Elect, Board of Trustees, Science Museum, South Kensington, London.
Mr R. Haw, Channel 7, T.V. News Reporter.
Mr Henshaw, History Department, University of Melbourne.
Prof. B. E. Hobbs, Earth Sciences Dept., Monash University.
Prof. A. Holland, Botany Dept., Monash University.
Prof. B. W. Holloway, Genetics Dept., Monash University.
Mr R. Hunt, Chairman, Sunshine Foundation.
Mr T. Hunt, Group Archivist, ANZ Bank.
Mr D. Hutchinson, Senior Curator, Western Australian Museum.
Mr R. Jell, News Programme, Channel 10 Television.
Mr Kaneka, Consul General for Japan.
Ms A. Keenan, Curator of Glass Technology, Museum of Applied Arts and Sciences, Sydney.
Mr D. Kennard, Deputy Director, Museum of Applied Arts and Sciences, Sydney.
Mr P. Kohler, Manager, Zeiss Jena DDR.
Mr T. Kupick, John Blackett-Smith Productions Pty. Ltd.
Dr J. Lack, History Department, University of Melbourne.
Mr F. Lees, Chief Executive Officer, Swinburne Applied Research and Development Division.
Mr I. J. Lees, Acting Director, South Australian Museum.
Mr P. McClurg, Australia Post.
Dr D. McMichael, Director, Museum of Australia.
Prof. R. L. Martin, Vice-Chancellor, Monash University.
Mr G. Maslen, Age-Newspaper.
Professor H. Medlin, University of Adelaide.
Mr T. Mein, Journalist.
Prof. R. B. Miller, Mathematics Dept., Monash University.
Mr E. J. Millett, M.B.E., Honorary Curator of Arms.
Ms J. Moonie, Australia Post.
Mr G. Morrison, National Gallery of Victoria.
Ms K. Morrissy, Assistant to Director, Craft Council of Victoria.
Prof. B. R. Morton, Mathematics Dept., Monash University.
Mr B. Muir, Reporter, Herald newspaper.
Mr P. Parkin, President, Friends of the Museum.
Mr T. Porter, Good Morning Australia Show, Channel 10 Television.
Prof. G. B. Preston, Mathematics Dept., Monash University.
Prof. W. A. Rachinger, Physics Dept., Monash University.
Mr J. Reid, Curator, Gold Museum Ballarat.
Mr R. Renew, Curator of Science, Museum of Applied Arts & Sciences.
Mr P. Reynolds, Consultant, Knowledge Engineering.
Ms C. Roberts, International Cultural Corporation, Canberra.
Dr C. F. E. Roper, Chairman, Dept. of Invertebrate Zoology, Natural History Museum, Smithsonian Institution.
Dr J. Shafer, Director, Israel Institute of Technology.
Dr L. Sharp, Director, Museum of Applied Arts and Sciences, Sydney.
Mr M. Sheedy, Secretary, Lake Goldsmith Steam Preservation Society.
Mr Keith Smith, Radio Australia, ABC.
Ms L. Staub, Sesquicentenary Celebration Committee.
Messrs R. & L. Stephens, Warracknabeal.
Prof. J. M. Swan, Dean of Science, Monash University.
Mr C. Tassell, Director, Queen Victoria Museum, Launceston.
Ms S. Tonkin, Executive Officer, MAA Victorian Branch.
Mr C. Treleaven, Polly Woodside, Maritime Museum.
Ms M. Triaca, Sun newspaper.
Mr R. Trudgeon, Consultant, Ministry for the Arts.
Mr M. Walker, Consultant.
Madam Wang Li Mei, Foreign Affairs Administrative Bureau, Museums and Archaeology, China.
Mr R. Watts, Australian Film Institute.
Prof. J. W. Warren, Professor of Zoology, Monash University.
Mr J. Werne, University of Melbourne.
Prof. B. O. West, Chemistry Dept., Monash University.
Mr P. White, AMP Society.
Ms E. Wignel, Freelance Journalist.
Mr L. Wilson, Rochester Historical Society.
Mr Wonho Chong, Interpreter.
Mr Yamada Kenzan, Vice-President, Japanese Swordsmith Guild.
Mr Yu Tian, Manager—Archaeology and Overseas Exhibitions Corporation, China.
Mr P. Zerbe, Melbourne Steam Traction and Engine Club.
Squadron Leader M. Ziegler, R.A.A.F.

Division of Natural History and Anthropology

Mr Kirk Huffman, Vanuatu Cultural Centre.
Dr Wu Xinzhi, Director, Institute of Vertebrate Paleontology, Beijing, China.
Dr Peter Brown, Department of Prehistory and Archaeology, University of New England.
Dr Betty Meehan, Consultant, Canberra.
Dr Michael Pietresowsky, Department of Anthropology, University of Hawaii.
Dr Neville White, Department of Genetics, La Trobe University.

Dr Geoffrey Laitman, Mt. Sinai Hospital, New York City.
Mr Stephen Webb, Department of Prehistory, Australian National University.
Dr Am McGrath, Department of History, Monash University.
Dr W. McDougall, University of Melbourne School of Dentistry.
Ms Denise Gangh . . ., Division of Prehistory, La Trobe University.
Dr David Frankel, Division of Prehistory, La Trobe University.
Dr Johan Kamminga, Department of Mechanical Engineering, University of Sydney.
Dr Nic Peterson, Department of Prehistory and Anthropology, Australian National University.
Ms Lydia Buchell, Macleay Museum, Sydney.
Mr John Murdine, Ramingining, N.T.
Mr Ricky Mullett, Koorie Education Centre, Melbourne.
Mr Jim Berg, Aboriginal Legal Service.
Mr Paddy Dalton, Central Gippsland Aboriginal Advancement Cooperative.
Ms Alison Oates, Kalgoorlie, W.A.
Ms Robyn Maxwell, Australian National Gallery, Canberra.
Mr Roy Evana, Boroko, Papua New Guinea.
Prof. Win Shin-Shu, Institute of Palaeoanthropology, Peking, China.
Mr Albert Mullett, East Gippsland Aboriginal Cooperative.
Mr Roderick Marks, Goolum Goolum Aboriginal Cooperative, Horsham.
Dr G. Kenny, Dept. of Anatomy, University of Melbourne.
Prof. Milford Wolpoff, Dept. of Anthropology, University of Michigan.
Dr Colin Hope, Middle Eastern Studies, University of Melbourne.
Mr A. L. West, Director, Aboriginal Arts Board.
Mr J. Atkinson, Chairman, Aboriginal Arts Board.
Mr M. Lynskey, Curator, National Film Archive.
Mr Robert Edwards, Director, International Cultural Corporation of Australia.
Prof. Barrie Reynolds, Material Culture Unit, James Cook University.
Dr Clive Gamble, Department of Archaeology, Southampton University, England.
Dr Athol Chase, Department of Environmental Studies, Griffith University.

The Department of Anthropology had 554 registered visitors during the year.

Kathy Walters & Di Lane, Pijantjatjara Women's Council.
Helen Reeves, University Gallery, University of Melbourne.
Ann Brodie & Geoff Bourke, National Gallery of Victoria.
Vincent O'Donnell, Film Victoria.
Robert Newton, School of Education, La Trobe University.
Peter Pinnington, Aboriginal Liaison Officer, University of Melbourne.
Michael Griffin, Aboriginal Liaison Officer, Housing and Construction.
Len Tregonning, D.E.I.R.
Joylene Rhall, Geelong Aboriginal Co-op.
David Smith, ABC Natural History Unit.
Richard Baker, N.T. Museum.
Reg Blow, Director, Aboriginal Affairs Unit, Premier's Department.
Marilyn Gittens, Aboriginal Liaison Officer, Dandenong College of TAFE.
Fay Carter, Aboriginal Liaison Officer, Department of Social Security.
Yvonne Forest, Librarian, Northern Land Council.
Lisa Healey, Education Officer, Tasmanian Museum.
Frankie Hogan, Costume Designer, 'Triumph of the Nomads', Nomad Films.
David Cork, Educational Media.

APPENDIX 10

Sir,

I submit hereunder my report on the audit of the books and accounts of the Council of the Museum of Victoria for the year ended 30 June 1984.

1. *Audit Objectives*

   The overall objectives of the audit were to:

   (1) report on the financial statements of the Council of the Museum of Victoria after performing such audit examination and verification as considered necessary to form an opinion on the accounts for the year ended 30 June 1984; and

   (2) ascertain whether the operations of the Council were in accordance with the provisions of the Museums Act 1983.

2. *Audit Scope*

   The audit involved an examination of the accounting and other systems and the verification of assets and liabilities of the Council at 30 June 1984.

3. *Financial Statements*

   In my opinion, the attached statements present fairly the financial position of the Council of the Museum of Victoria at 30 June 1984 and the results of operations for the year then ended.

   Accordingly, it is recommended that your report be signed without qualification.

4. *Audit Observations and Recommendations*

   4.1 *State Collection of Exhibits*

   The State Collection at the Museum is accounted for in inventory registers which are maintained in a variety of ways, e.g. manually, on micro-fiche and on on-line computer. Effective control by the Council over the State Collection is impaired due to the absence of a complete, comprehensive and centralised register which would facilitate regular stockchecks.

   It is recommended that action be initiated by the Council to implement a complete centralised register incorporating all exhibits.

   4.2 *Management Information Accounting System*

   The present manual accounting system is inadequate in that it does not provide timely management information. Further, the fragmentation of staff throughout the building is not conducive to good internal control and results in double handling of Council revenue.

   It is recommended that the accounting function be centralized and that a computerised accounting package be introduced as soon as possible to

provide timely information required by user departments.

4.3 *Chinese Dinosaur Replicas*

A verbal agreement exists between the Council and the People's Republic of China to share profits equally on the sale of dinosaur replicas prepared in Melbourne.

During the year one replica was produced and sold for $127,131. However, the cost of manufacturing this replica has not been determined and as a result the share of profit due to the Republic remains outstanding.

It is recommended that Council determine the amount due to the Republic and finalise this matter.

4.4 *Investments*

Investments totalling $1,328,722 were held by the Council at 30 June 1984. However, some investments remained in the name of the former Science and National Museums.

It is recommended that action be taken to have all investments registered in the name of the Council of the Museum of Victoria.

4.5 *Museum Shop*

Shop operations for the 1983-84 year were as follows:

	$
Sales	376 153
Less Cost of Goods sold	221 034
Gross Profit	155 119
Plus Interest received	378
	155 497
Less Expenses	169 036
Net Loss	13 539

Although the gross profit was 41 per cent of sales the final result was a loss of $13 539 which audit considered to be unsatisfactory.

It was not possible to deduce from the accounts provided results from either the coffee shop or the souvenir shop.

Audit considered the overall stock turnover of 4 times for the year to be particularly low especially when the stock included perishable items, such as food, which should turn over very rapidly.

There is no form of stock control in existence.

It is recommended that immediate action be taken to place the shop operations on a proper business footing to prevent any further drain on Council funds. Consideration could be given to franchising the shops to a lessee.

5. *General*

Subject to the remarks in paragraph 4, which should be brought to the attention of the Treasurer, the books and accounts were kept satisfactorily.

Audit Manager
16 April 1985

AUDITOR-GENERAL'S REPORT

The accompanying financial statements comprising a balance sheet, statement of income and expenditure and notes to the financial statements of the Council of the Museum of Victoria have been audited as required by Section 30 of the Museums Act 1983 and in accordance with Australian Auditing Standards.

As indicated in Note 2 of the Notes to the Accounts, the 1982-83 figures have been included for comparative purposes only.

Subject to the above explanation, in my opinion, the financial statements have been properly drawn up so as to present fairly the state of the affairs of the Council of the Museum of Victoria as at 30 June 1984 and the results of its operations for the year ended on that date.

MELBOURNE
16 April 1985

F. BELLI
Deputy Auditor-General

COUNCIL OF THE MUSEUM OF VICTORIA

In our opinion, the accompanying balance sheet and accompanying statement of income and expenditure when read in conjunction with the notes thereon present fairly the financial transactions during the 1983/84 financial year and the financial position as at 30 June, 1984 of the Museum of Victoria.

PRESIDENT
5 February 1985

TREASURER
5 February 1985

COUNCIL OF THE MUSEUM OF VICTORIA

Balance Sheet at 30 June 1984

	Notes	$	1983/84 $	1982/83 $
ACCUMULATED FUNDS			1,498,921	1,415,606
which are represented by:				
ASSETS				
Current assets				
Cash at Bank			—	32,564
Cash on Hand			3,959	2,135
Debtors		3,257		59,415
Less Estimated Doubtful Debts		*Nil*		*465*
			3,257	
Stocks of books and Publication etc. for resale			*76,155*	*78,814*
Investments	3		1,328,722	1,147,538
Non Current Assets				
Motor Vehicle		9,881		9,881
Less Accumulated Depreciation		5,715		5,011
			4,166	
Shop Assets		159,769		134,059
Less Accumulated Depreciation and Amortization	8	18,890		4,369
			140,879	
TOTAL ASSETS			1,557,138	1,454,561
Less Current Liabilities				
Bank Overdrawn		875		—
Creditors		57,314		38,923
Prepaid Revenue		28		32
			58,217	
NET ASSETS			1,498,921	1,415,606

To be read with the attached notes, which form part of the accounts.

COUNCIL OF THE MUSEUM OF VICTORIA

Statement of Income and Expenditure for the year ended 30 June 1984

	Notes	$	1983/84 $	1982/83 $
INCOME				
Fees and Charges			44,154	541,599
Sales of Publications, Replicas etc.			192,491	20,734
Donations	5		31,567	113,826
Interest and Dividends	6		107,798	99,448
State Grants			286,098	261,653
Commonwealth Grants			100,876	161,018
Other Grants			62,081	54,694
Miscellaneous			2,041	6,475
TOTAL INCOME			827,106	1,259,447
EXPENDITURE				
Salaries and Wages		273,451		275,376
Travelling		37,283		65,159
Office Requisites Printing and Stationery		18,803		37,705
Books and Publications		1,274		2,020
Post and Telephone		6,870		1,975
Motor Vehicle		2,596		4,661
Fuel, Light and Power		796		—
Display and Exhibition		31,241		63,561
Advertising and Publicity		28,806		130,422
Consultants Fees		85,096		101,276
Hospitality and Refreshments		14,393		26,504
Freight		8,477		6,417
Photographic Supplies and Services		9,961		9,690
Materials		21,539		38,864
Collection Items		2,932		—
Equipment		78,674		6,369
Maintenance of Equipment		7,551		8,587
Grants		7,100		250
EDP Equipment		26,611		—
EDP Expenses		49,576		19,230
Protective Clothing		2,129		—
Miscellaneous		3,633		4,580
Cost of Publications, Replicas etc. sold		11,460		12,154
Operating Loss of Shop	7	13,539		14,408
TOTAL EXPENDITURE			743,791	829,208
SURPLUS FOR YEAR			83,315	430,239
BALANCE 1 JULY 1983			1,415,606	991,395
			1,498,921	1,421,634
Less Distribution to Library Council 30.6.83			—	6,028
ACCUMULATED SURPLUS 30 JUNE 1984			1,498,921	1,415,606

To be read with the attached notes, which form part of the accounts.

COUNCIL OF THE MUSEUM OF VICTORIA

NOTE 1. BASIS OF ACCOUNTING METHODS

1. Accounting Policies

(a) These accounts have been prepared under the historical cost convention as recommended by the Australian Accounting bodies and have not been adjusted to take account of the current cost of specific assets or their impact on the operating results. The accounts for income and expenditure are on an accrual and going concern basis.

(b) Funds used for the purchases of equipment and improvement of displays are recorded as expenditure in the year's accounts. The only assets shown in the statement of balances are those which are in the form of, or which will or converted into, cash or its equivalent, viz. investments, debtors, stocks on hand, and those used in the Museum Shop operations. Procedures are under way which will bring all assets into the accounts and for 1984/85 assets purchased by the council will be capitalized in the balance sheet.

(c) Stocks have been valued at the lower of cost or net realisable value.

(d) The valuation of Collections will commence from 1 July, 1984.

NOTE 2. PRIOR YEAR ACCOUNTS

The Museum of Victoria was formed on 1 July, 1983 by an amalgamation of the National Museum of Victoria, the Science Museum of Victoria and the Building Trustees: The 1982/83 comparative figures are a consolidation of the accounts of the three previous bodies. They are for comparative purposes only and do not attempt to represent operations in that year.

NOTE 3. INVESTMENTS

Investments on hand as at 30 June, 1984 were:

	$
Commonwealth Government Securities	206,700
Semi Government Securities	284,300
Negotiatble Certificates of Deposit and interest bearing deposits or other Money Market Securities	779,969
Other Securities	57,753
	1,328,722

NOTE 4. In addition to the expenditure incurred by the Council of the Museum of Victoria an amount of $3,994,352 was expended from vote funds appropriated to the Ministry for the Arts and $1,350,112 from the Works and Services Programme.

NOTE 5. DONATIONS

	$
ESSO – Contribution to Tjeby restoration	15,000
William Buckland Foundation – Contribution to microscope	5,000
Victorian Gem Clubs – Contribution to purchase of Mineral Specimens	1,500
Various Donations less than $1,500	3,720
Collections from donation boxes	6,347
	31,567

NOTE 6. INTEREST AND DIVIDENDS

	$
Commonwealth Government Securities	18,576
Semi Government Securities	29,302
Negotiable Certificates of Deposit and Interest bearing Deposits or other Money Market Securities	54,563
Other Securities	5,357
	107,798

NOTE 7. MUSEUM SHOP OPERATIONS

INCOME	$	1983/84 $	1982/83 $
Sales		376,153	199,843
Less Cost of Sales			
Opening Stock	50,449		17,790
Purchases	222,210		158,190
Freight in and Customs Charges	6,437		10,358
	279,096		186,338
Less Closing Stock	58,062		50,449
		221,034	135,889
Gross Profit		155,119	63,860
Add Other Income			
Interest		378	906
		155,497	64,860
EXPENDITURE			
Salaries and Wages	126,671		57,131
Office Requisites Printing and Stationery	4,501		5,920
Motor Vehicle	4,191		1,340
Advertising and Publicity	3,674		1,433
Consultants Fees and Expenses	10,720		5,720
Finance Charges	1,483		1,425
Depreciation and Amortization	13,188		4,369
Miscellaneous	4,608		1,930
TOTAL EXPENDITURE		169,036	79,268
OPERATING LOSS		(13,539)	(14,408)

NOTE 8. SHOP ASSETS

	$	1983/84 $	1982/83 $
Improvements	66,894		57,154
Less Amortization	5,542	61,352	2,195
Plant and Equipment	26,531		19,076
Less Depreciation	5,075	21,456	684
Motor Vehicle	6,664		6,664
Less Depreciation	2,666	3,998	1,333
Furniture and Fittings	59,680		51,165
Less Depreciation	5,607	54,073	157
Written Down Value		140,879	129,690