

REPORT
OF THE
ROYAL SOCIETY
OF
TASMANIA

FOR THE YEAR

1870.



TASMANIA :

PRINTED AT THE "MERCURY" STEAM OFFICE, HOBART TOWN.

1871.

PATRON:

Her



Majesty

The Queen.

Royal Society of Tasmania.

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HER MAJESTY THE QUEEN.

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H. COOK, Esq.

Auditors of Monthly Accounts :

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F. ABBOTT, Esq.

Curator of the Museum :

MR. T. ROBLIN.

* Members who retire next in rotation.

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CHARLES JOSEPH LATROBE, Esq., England.

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DR. W. O. SONDER, Foreign Hon. Sec. Society of Naturalists, Hamburg.

REV. J. J. BLEASDALE, D.D., F.G.S., Melbourne.

List of Fellows.

† Denotes Life Membership.

Abbott, Francis, F.R.A.S., F.R.M.S.	...	...	Hobart Town
Abbott, F., jun.	...	...	„
Adams, G. P....	...	...	„
Agnew, J. W., M.D.	...	...	„
Allport, Joseph	...	...	„
Allport, Morton, F.L.S., F.Z.S.	...	...	„
Archer, William, F.L.S.	...	...	Cheshunt
Atherton, E.	...	...	Hobart Town
Atkinson, Rev. H. D.	...	...	Oyster Cove
Aubin, F.	...	...	Spring Bay
Aikenhead, Hon. J., M.L.C.	...	...	Launceston
Adams, R. P....	...	...	Hobart Town
Bilton, H.	...	...	Glenorchy
Barnard, James	...	...	Hobart Town
† Barry, Sir R., Puisne Judge	...	...	Melbourne
Boyd, James, Civil Commandant...	...	...	Port Arthur
Butler, Francis	...	...	Hobart Town
Butler, J.	...	...	Bagdad
Bromby, Right Rev. C. H., Lord Bishop of Tasmania	...	...	Hobart Town
Bright, R. S., M.R.C.S.L.	...	...	„
Butler Henry	...	...	„
Buckland H. J.	...	...	„
Browne, Justin McC.	...	...	„
Baynton, W. E.	...	...	Kingston
Bomford, F. E.	...	...	Rheban, Swansea
Chapman, Hon. T. D., M.H.A.	...	...	New Town
Cook, Henry, M.H.A.	...	...	Hobart Town
Clarke, J. M.	...	...	„
Creswell, C. F.	...	...	„
Cotton, Francis	...	...	Swanport
Crawford, Lieut.-Colonel	...	...	New Town

Cruttenden, Thomas...	...	...	...	...	Woodsden
Castray, L. R., A.C.G.	...	...	...	...	Hobart Town
Davies, Ven. Archdeacon	...	...	...	...	Hobart Town
Davies, John, M.H.A.	...	...	...	...	,,
Dear, R. E.	...	...	...	...	,,
Dobson, Hon. W.L., M.H.A.	...	...	...	...	Hobart Town
Dobson, H.	...	...	...	...	,,
Dunn, J. A.	...	...	...	...	,,
Du Cane, His Excellency C.	...	...	...	...	Government House
Foster, Hon. John, M.L.C.	...	...	...	...	Hobart Town
Giblin, Thomas	...	...	...	...	,,
Gould, C., F.G.S., Government Geologist	...	...	...	...	,,
Gorringe, Thomas	Green Ponds
Greig, C. F.	Hobart Town
†Gunn, R. C., F.R.S., F.L.S.	Launceston
Graves, J. W....	Hobart Town
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Guesdon, W. A., jun.	Hobart Town
Hall, Dr. E. Swarbreck	Hobart Town
Harris, Rev. R. D. P., M.A.	,,
Hinsby, Henry	...	...	...	...	,,
Hunter, Henry	...	...	...	...	,,
Huston, G. F....	...	...	...	...	New Norfolk
Huybers, A.	...	...	...	...	Hobart Town
Hopkins, H.	...	...	...	...	,,
Hazell, C.	...	...	...	...	Carlton
Irving, Professor	...	...	...	...	Melbourne University
Irvine, P.	...	...	...	...	Hobart Town
Ingle, J.	...	...	...	...	England
Isaacs, R. McIntosh	...	...	...	...	Hobart Town
Jackson, Adam	...	...	...	...	Ross
Jamieson, —	...	...	...	...	Hobart Town
Jeffery, Molesworth	...	...	...	...	Bournbank
Kennerley, Hon. Alfred, M.L.C.	...	...	...	...	Hobart Town

Knight, W., jun.	...	...	...	...	...	Sandy Bay
Langdon, Captain the Hon. W., R.N., M.L.C.	...					Montacute
Lewis, David, M.H.A.	...	...	...	...	...	Hobart Town
Legge, R. V.	...	...	...	...	...	Cullenswood
Maclanachan, James	...	...	...	...	...	Ballochmyle
Macfarlane, James	...	...	...	...	...	Hobart Town
Macfarlane, J.	...	...	...	...	...	"
Mather, J. B.	...	...	...	...	...	"
Maxwell, C. M.	...	...	...	...	...	"
†Milligan, Joseph, F.L.S.	...	...	...	...	...	England
Moore, J. A.	...	...	...	...	...	New Norfolk
Meredith, Hon. C., M.H.A.	...	...	...	...	...	Hobart Town
Morrison, Askin	...	...	...	...	...	"
Marsh, H. J.	...	...	...	...	...	"
Mace, J. C.	...	...	...	...	...	Clarence Plains
Mace, G.	...	...	...	...	...	Spring Bay
Napier, G. R.	...	...	...	...	...	Hobart Town
Nelson, H.	...	...	...	...	...	"
Officer, Hon. Sir Robert, M.H.A., Speaker	...					New Norfolk
Pillinger, J.	...	...	...	...	...	Antill Ponds
Roberts, H. L.	...	...	...	...	...	Hobart Town
Read, R. Cartwright	...	...	...	...	...	{ Redlands, New } Norfolk.
Rule, J.	...	...	...	...	...	Bellerive
Salier, G., M.H.A.	...	...	...	...	...	Hobart Town
Sharland, W. S., M.H.A.	...	...	...	...	...	New Norfolk
Solomon, Joseph	...	...	...	...	...	Hobart Town
Stephens, T., M.A., Inspector of Schools	...					"
Story, J. F.	...	...	...	...	...	Swanport
Storie, Rev. J.	...	...	...	...	...	Hobart Town
Susman, L.	...	...	...	...	...	"
Stone, W.	...	...	...	...	...	"
Swan, E. D.	...	...	...	...	...	"
Scott, J., M.H.A.	...	...	...	...	...	Launceston

Scott, J. R., M.H.A.	...	...	...	...	New Town
Travers, S. Smith	...	...	...	...	New Town
Walch, James...	...	...	...	...	Hobart Town
Weaver, G.	...	...	...	...	"
Weston, W. P.	...	...	...	...	Norfolk Plains
Whitcomb, G.	...	...	...	...	Hobart Town
Whyte, Hon. James, M.L.C.	...	...	...	...	"
Wilson, George, jun...	...	...	...	...	Mount Seymour
Wilson, Hon. J.M., M.L.C.	...	...	...	...	Hobart Town
Wise, F. H.	...	...	...	...	"
Woolley, J.	...	...	...	...	"
Wilkins, A.	...	...	...	...	England
Webster, A. G.	...	...	...	...	Hobart Town
Wright, Stephen P. H.	...	...	...	...	"
Wilson, George	...	...	...	...	"
Willes, C. J., M.R.C.S. Edin.	...	...	...	...	Oatlands
Walker, F. T.	...	...	...	...	Rhodes
Young, Russell	...	...	...	...	Hobart Town
Young, James...	...	...	...	...	Bellerive

MINUTES of the ANNUAL GENERAL MEETING of the ROYAL SOCIETY OF TASMANIA, held at the Museum, Macquarie-street, at 7 o'clock p.m., on the 30th January, 1871: The Ven. Arch-deacon Davies, Vice-President, in the chair.

The CHAIRMAN having read the advertisement by which the meeting had been convened, called upon the Secretary to read the report.

The Report for 1870 was then read.

It was moved by Mr. H. BILTON, seconded by Mr. J. ALLPORT, and carried, "That the Report be adopted, and printed for circulation amongst the Fellows."

Messrs. J. M. Clarke and F. Abbott, junr., having been appointed Scrutineers, the meeting proceeded to the election of four members of Council in place of those retiring.

The ballot resulted in favour of the undermentioned Fellows, who were declared duly elected:—

F. ABBOTT, ESQ.

T. GIBLIN, ESQ.

JUSTIN MCCARTHY BROWNE, ESQ.

A. G. WEBSTER, ESQ.

Messrs. F. Butler and H. Cook were, on the motion of Mr. M. ALLPORT, seconded by Mr. F. ABBOTT, Senr., re-elected Auditors of annual accounts.

The following gentlemen, who had been previously nominated by the Council, were elected by ballot as Fellows of the Society:—

Molesworth Jeffery, Esq., of Bournbank, and W. E. Baynton, Esq., of Kingston.

A vote of thanks to the Honorary Secretary,

Dr. Agnew, proposed by Mr. J. ALLPORT, and seconded with some complimentary remarks by Mr. STEPHENS, was unanimously adopted.

Dr. AGNEW returned thanks. He was much gratified at being able to report that the financial condition of the Society was so comparatively satisfactory, and he hoped by the invaluable assistance of their Curator, Mr. Roblin, to be able next year to state that all liabilities had been cleared off. This was much to be desired, as it was becoming a matter of necessity that some portion of the funds should be devoted to the purchase of recent books of reference, etc., and to other objects connected with the Institution.

On the motion of Mr. BELSTEAD, seconded by Mr. J. M. CLARKE, an unanimous vote of thanks was accorded to the Chairman.

The CHAIRMAN returned thanks, remarking that he considered it would be desirable to have a microscopical reunion at an early date for the special entertainment of ladies; and stating that, in conformity with a suggestion made by Mr. Giblin at the last annual general meeting, he purposed giving an address next year, should he then have the pleasure of occupying his present position.

The proceedings then terminated.

R E P O R T.

The Session of 1870 commenced on the 8th of March, with a paper by Baron F. Von Müeller, C.M.G., F.R.S., etc., entitled "Contributions to the Phytography of Tasmania," and the following papers were read at the meetings during the year:—"Additional Observations on the changes which have taken place in the Star γ Argus and its surrounding Nebula," by F. Abbott, F.R.A.S.; "On the Land Shells of Tasmania, with a list of new species," by Mr. W. Legrand; "On the habits of the large Crayfish (*Astacus sp.*) of the Northern Rivers of Tasmania," by C. Gould, Esq., F.G.S.; "Notes on an Excursion to Cummings's Head and the Falls of the Meander," by W. Archer, Esq., F.L.S.; "Notes on an Experiment with the Fumes of Sulphur, and on other methods for the Destruction of Rabbits in their Burrows," by W. Archer, Esq., F.L.S.; "Notes on the Salmon Trout (*Salmo trutta*) at the River Plenty," by M. Allport, Esq., F.Z.S., F.L.S.; "The Sun and its Office in the Universe," by F. Abbott, Esq., F.R.A.S.; "Continuation of Notes on an Excursion to Cummings's Head and the Falls of the Meander," by W. Archer, Esq., F.L.S.; and "Notes on the Californian Thistle," by the same author.

In addition to the papers read, the following subjects were brought under discussion at the monthly meetings:—"The occurrence of Gold at Port Cygnet;" "The Red Spider of the Hop Grounds;" "The Smolt captured in the Derwent and forwarded to Dr. Günther for identification of Species;" "The arrest of development of the Salmon when detained in fresh water;" "Dr.

Günther's opinion as to species of the Smolt sent to him ;" " The Caterpillars by which the grain and other crops were so much injured in the early part of 1870 ;" " The Manufacture of Beet-root Sugar in Tasmania, with correspondence thereon ;" " The capture of a Smolt by an angler at New Norfolk ; " Coal from Three Hut Point ;" " The rapid growth of the English Perch (*Perca fluviatilis*) in Tasmania," etc., etc.

The monthly Meteorological Tables have been regularly published, and copies of them forwarded to the Government Observatories in the neighbouring colonies, from all of which similar returns have been received. The thanks of the Society are again due to Mr. F. Abbott of Hobart Town, Mr. J. Boyd of Port Arthur, Dr. Story of Swansea, and Mr. F. Belstead of Westbury, for their trouble in keeping these important records ; also to the Superintendents of the various Lighthouses and Coast Stations, who, by direction of the Marine Board, furnish monthly returns.

The Council has much pleasure in reporting that the monthly " Notes on the Meteorology and Mortality of the Hobart Town Registration District," by E. Swarbreck Hall, Esq., have been regularly supplied and printed during the year.

Our transactions have as usual been transmitted to learned Societies in various parts of the world, and the Fellows will no doubt have observed, by our acknowledgments at the monthly meetings, that very valuable presentations have been received in return.

In order to aid in the advancement of the objects of the Society, it was thought advisable to make an appeal to the public for such increased assistance as they might be enabled to afford, whether by scientific contributions, or by joining

as permanent members. The results have been such as to justify us in still keeping the subject under notice during the present year.

COUNCIL.

No vacancy has occurred during the year. The required list according to Rule XXXII., as amended at the General Meeting of 1868, has been exhibited in the Library for the last fortnight.

FINANCE.

On reference to last year's Report it will be noticed that it was expected our debt would be considerably reduced at the end of the current year. We are happy to say such has been the case, and the state of the Balance Sheet warrants us in hoping that the debt will almost be extinguished by the end of the present financial year.

The total income from all sources was as follows :—Government Grant to Museum £200; to the Gardens £400; subscriptions £127 10s.; sale of Plants, etc., £71 3s. 4d.; amounting to £798 13s. 4d. This with £30 12s. in the hands of the Superintendent of the Gardens for payment of current expenses, 9s. petty cash in hands of Curator of Museum, and £40, which we calculate will be available from arrears of subscriptions, will give a grand total of £869 14s. 4d. The expenditure and liabilities amount to £899 11s. 4d., leaving a balance to debit of £29 17s.

As the following statement shows, the current expenditure for the year has been well within the income :—

	£	s.	d.
Total Receipts from all sources	798	13	4
Total Expenditure	757	11	8
	<hr/>		
Balance for meeting liabilities	£41	1	8

GARDENS.

In the upper part of the Gardens considerable progress has been made in laying out and planting the trenched ground, through which a broad walk has also been carried. This walk will be continued round the beach as soon as the necessary tract of ground has been reclaimed by the sea wall now in process of erection. It is hoped that this wall will be completed in the course of a few months, and when the arrangements now in progress are fully carried out, this portion of the Gardens will no doubt become exceedingly attractive.

Preparations for the erection of a new boundary fence have been commenced by the Government. About two-thirds of the necessary quantity of cut timber has been received from Port Arthur, and as soon as the remainder arrives the work will be proceeded with as rapidly as possible. It is hoped that arrangements will be made at the same time for the construction of a new entrance, more in keeping with the general character of the grounds than the present one, which is most inconvenient and unsightly.

Owing to the very low state of our finances, and consequently the want of a proper organisation for the collection of suitable plants, our exchanges with Europe are gradually falling off, and the additions to our plant stock during the past year have chiefly been received from the neighbouring colonies. To Baron Von Mueller, Director of the Botanic Gardens, Melbourne, and C. Moore, Esq., Director of the Botanic Gardens, Sydney, we are indebted for many valuable additions of which the following are worthy of special notice:—A valuable collection of Tea,—*Cinchona*,—various Oaks, including the Cork Oak,—*Coniferae* of

economic value,—Hickory and Walnut plants. The above were sent by Baron Von Müeller as test plants to prove the adaptability of Tasmania for their cultivation on a larger scale. Several new Palms, which were discovered by himself on Lord Howe's Island, were sent by Mr. Moore. Among them the *Kentia Balmoreaana*, *K. Forsteriana*, *K. Canterburyana*, &c., *Panax Murrayii* (the Palm Panax), *Eucalyptus citriodora* (the Lemon-scented gum), *Laurus cinnamomum* (the Cinnamon tree), and many others equally interesting. About 250 new plants were received during the year.

The number of persons who visited the Gardens during the year is estimated at 21,444.

MUSEUM.

As will be seen by the list of presentations many specimens in various departments of Natural History have been received during the year. All of these for which room could be provided have been arranged in their appropriate sections of the collection, the remainder being placed in store until additional case room, of which we are greatly in want, has been procured.

The spirit preparations in store have largely increased, but, as our funds are not at present adequate to meet the expense of mounting them for exhibition, the most that can be done for some time will be to provide sufficient spirits of wine to preserve them.

The collection of skeletons of native animals has received many additions at the hands of Mr. Roblin, and it is hoped that the majority of these will be placed in the Museum during the ensuing year.

Conchological specimens have been received from several donors, but as they are principally

duplicates of those already in the Museum, they will be chiefly valuable for purposes of exchange. Mr. W. Legrand, to whom the Society is indebted for many additions to this department, is arranging a complete series of Tasmanian land shells, including all those recently discovered by himself, and it is his intention to present the collection when completed to the Museum.

The work necessary for the preservation of the general collection, which requires much time and care, has been carried out. Several alterations have been made in various parts of the Museum for the better display of the objects exhibited, and the work of labelling is being proceeded with as opportunities occur. Specimens have been sent to the Museum of Magdalen College, Cambridge; and Brussels, from which places we shall doubtless receive others in return.

The number of visitors during the year was 8718.

STATEMENT of the Funds of the ROYAL SOCIETY OF TASMANIA for the Year 1870.

RECEIPTS.				EXPENDITURE.			
	£	s.	d.		£	s.	d.
Annual Subscriptions from 76 Members	114	0	0	Balance overdrawn at Commercial Bank, as per statement for 1869			
Arrears of ditto	13	10	0	Interest on overdrawn account, 1870, as per Bank Book		82	4 4
Total Royal Society			127 10 0	ROYAL SOCIETY.—Meteorological Instruments	3	14	1
MUSEUM.—Grant-in-aid from Treasury	200	0	0	Printing and Advertising	34	4	2
Total Museum			200 0 0	Postage, Parcels, &c.	3	11	7
BOTANIC GARDENS.—Proceeds of Sale of Plants, Fruits, &c.	71	3	4	Collector's Commission on Subscriptions received, £127 10s., at 5 per cent.	6	7	6
Grant-in-aid from Treasury	400	0	0	Messenger for delivering Papers and Proceedings	0	15	0
Total Botanic Gardens			471 3 4	LIBRARY.—Books and Stationery	42	17	6
1871.—Jan. 17.—Balance overdrawn at Commercial Bank			61 12 10	Total Royal Society		93	9 10
	£860	6	2	MUSEUM.—Salary of Curator	125	0	0
				Wages of Attendant	52	0	0
				Insurance	6	7	6
				Purchase of, and preparing specimens	2	16	0
				Water Rate	3	3	0
				Fuel and Light	3	16	7
				Sundries and Petty Cash	1	5	6
				Camphor, Spirits of Wine, &c.	9	2	8
				Carriage of Specimens	0	9	6
				Fittings, Repairs, &c.	3	15	0
				Ironmongery, &c.	3	0	9
				Sweeping Chimneys	0	7	0
				Total Museum		211	3 6
				BOTANIC GARDENS.—Salary of Superintendent	150	0	0
				Wages of Foreman and Labourers	276	5	0
				Tools and repair of ditto	10	6	1
				Freight and Carriage of Plants	3	4	0
				Stationery and Stamps	2	12	2
				Ironmongery	10	7	3
				Sundries	10	0	10
				Seeds	2	9	6
				Forage	2	13	6
				Total Botanic Gardens		467	18 4
					£860	6	2

Note.—Dr.—To overdrawn Balance at Bank	61	12	10
Balance of Account due Orger and Meryon, London	19	5	2
Wheatley and Co., to 31st December, 1870 (not received) estimated at	20	0	0
Total		100	18 0
Cr.—By Cash in hands of Superintendent of Gardens	30	12	0
Ditto Curator of Museum	0	9	0
Subscriptions due	40	0	0
		71	1 0
	£29	17	0

February 2nd, 1871.

Audited and found correct { FRANCIS BUTLER } Auditors.
{ HENRY COOK }

BOOKS PURCHASED & PRESENTED DURING 1870.

[Presentations marked thus.*]

Arts, Journal of Society of, Vol. 17, Nos. 885 to 888 ; Vol. 18, Nos. 889 to 936 ; Nov. 5th, 1869 to Oct. 28th, 1870.

Arts, Transactions of Society of, 1 Vol., 1868-9.

Archiv fur Naturgeschichte, No. 6, 1867.

*Astronomical Observations made at Melbourne, 1866, 1867, 1868.
From R. J. Ellery, Esq.

Athenæum, parts 502 to 513, October, 1869, to September, 1870.

*Agricultural Society of N.S.Wales, Journal of, current numbers.

*Academy, American of Arts and Sciences, Proceedings of, Vol. 7, page 343 to end.

*Builder, The, Nos. 226 to 237, October, 1869, to September, 1870.

British Association, Report of, 1868.

Birds of Australia, Gould's, supplement, Part 5.

*Calendar of Science and Art Department, South Kensington Museum, 1870.

*Climate of London 1818-1820—two volumes.

*Catalogue of Victorian Exhibition, 1861.

*_____ of Maps of British Possessions in India.

*_____ of Colonial Museum, Wellington, New Zealand.

*_____ of Victorian exhibits to Sydney Exhibition.

Conchologia Iconica. Parts 282, 283.

Crayfish, On the habits of the large Freshwater, of Northern Rivers of Tasmania. From the Author, C. Gould, Esq., F.G.S.

*Essex Institute, Salem, Massachusetts, America, Proceedings of, Vol. 5, Nos. 5 to 8.

*Earthquakes, Cause and Phenomena of, by the Rev. W. B. Clarke.
From the Author.

*Entozoa, Cobbold's. From the Government.

*Excursion to Cummings's Head, and the Falls of the Meander, Notes on an, by W. Archer, Esq., F.L.S. From the Author.

Florist and Pomologist, Nos. 23 to 34, November, 1869, to October, 1870.

Gardeners' Chronicle, The. Current numbers.

*_____ of New Zealand, from the author, F. Wakefield, Esq., F.L.S.

*Geological Charts of Tasmania, North East Coast. By C. Gould, Esq., F.G.S.

*Intelligencer, Walch's Literary, current numbers.

Journal, Silliman's American of Science and Art, Vol. 48, Nos. 144, 145 ; Vol. 49, Nos. 146, 147 ; vol. 50, Nos. 148, 149.

_____ Practical Mechanics, pts. 56 to 60.

_____ Quarterly of Science, Nos. 25 to 28.

*Museum of Comparative Zoology, Harvard College, Cambridge, America; Report of 1868, Bulletin of Nos. 6 and 7.

*Magnetism, General Connnotations of. By Pliny Earle Chase, Esq.
From the Author.

*Minerology of Victoria, Contributions to. By G. F. Ulrich, F.G.S.
From Government of Victoria.

*Mineral Statistics of Victoria. From ditto.

*Mining Surveyors, Victoria, Reports of. From ditto.

*Magnetic Survey of Victoria, Results of. By Dr. G. Neumayer.
From the author.

*Meteorological Returns, Hobart Town, monthly.

_____, Port Arthur, ditto.

- *Meteorological Returns, Swansea, ditto.
 _____, Westbury, ditto.
 _____, Kent's Group, ditto, July, 1869 to June 1870.
 _____, Swan Island, ditto, ditto.
 _____, Goose Island, ditto, ditto.
 _____, King's Island, ditto, ditto.
 _____, South Bruny, ditto, ditto.
 _____, Mount Nelson, ditto, ditto.
 _____, Melbourne, monthly for 1870.
 _____, Sydney, ditto, ditto.
 _____, New Zealand, ditto, ditto.
- Natural History, Annals and Magazine of, Vol. 4, Nos. 23 and 24 ; Vol. 5, Nos. 25 to 34.
- *_____ American Museum of, Report of
- *Proceedings, Royal Society, London, Vol. 18, Nos. 115 to 122.
- *_____ of New Zealand Institute, Vol. 2, 1869.
- _____ of Geological and Polytechnic Society of W. Riding of Yorkshire, 1869.
- *Patents for Preservation of Food, Victoria, two pamphlets on, by W. H. Archer, Esq. From Government of Victoria.
- *Patent Indexes, Victoria. From ditto.
- *Patents, Specifications of, Victoria, 1854 to 1856. From ditto.
- *_____ and Patentees, Victoria, Vol. 3. From ditto.
- *Public Ledger Building, Philadelphia, Account of, 1 Vol.
- *Report, Smithsonian Institution, Washington, 1866-1867.
- _____, American Patent Office, 1863 to 1866, ten volumes. From United States Government.
- _____, of Department of Agriculture, Washington. From ditto.
- *_____ of National Academy of Sciences, Washington.
- *_____, 10th Annual, of Columbia Institution for Deaf and Dumb, 1867.
- *_____ Public Schools, Washington, 22nd Annual, 1867.
- *_____ Maine Board of Agriculture, 1863.
- *_____ of Natural History and Geology of State of Maine.
- *_____ of Commissioners of Fisheries, State of Maine.
- *_____ on Paris Exhibition, 1867, 6 vols. From the Society of Arts, per Dr. Milligan.
- *_____ of Commissioners on ditto. From the same.
- *Reports on United States Coast Survey, 1863, 4, and 5 ; 3 vols. From U.S. Government.
- *Report of South Australian Institute, 1869-70.
- *_____ Leeds Literary and Philosophical Institution, 1869-70.
- *_____ New Zealand Colonial Museum.
- *Rain, remarks on, as affected by the Moon. By Pliny Earle Chase. From the Author.
- *Rot in Sheep, by J. B. Simonds. From R. C. Gunn, Esq.
- Student, The, Nos. 22, 23, 24 for 1869 ; Nos. 1 to 4 for 1870.
- *Statistics of New Zealand, 1869.
- *_____ Tasmania, 1869.
- *_____ Agricultural of Victoria, 31st March, 1870.
- *Society, Zoological of London, Proceedings of, Part 3, June to December, 1868 ; Part 1, January to March, 1869.
- _____, Linnean, Journal of, Vol. 12.
- _____, _____, Vol. 11, Nos. 50, 51, 52.
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- _____, _____, Proceedings of, 1868-69, Page 41 to end.
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- *Society, Royal Geographical, Journal of, Vol. 38, 1868.
 *———, ————, Proceedings of, Vol. 13, Nos. 2, 3, 4, 5.
 *———, Royal Asiatic, Journal of, Vol. 4, Part 1.
 *———, Geological, Quarterly Journal of, Vol. 25, Parts 3 and 4.
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 *———, Boston, of Natural History, Proceedings of, Vol. II., 1866-1868.
 *———, ————, ————, Condition and Doings of, 1867-68.
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 *———, Portland, of Natural History, Proceedings of, Vol. 1, Part 2.
 *———, American Philosophical, Philadelphia, Proceedings of, Vol. 10, Nos. 77, 78, 79, 1867-8.
 *———, Cincinnati Astronomical, Annual Address to.
 *———, Royal of New South Wales, Address to. By Rev. W. B. Clarke. From the Author.
 *Silk, Correspondence on cultivation of. From Dr. G. Bennett, Sydney.
 *Star η Argus, Additional observations on changes in, 1870, by F. Abbott, Esq., F.R.A.S. From the Author.
 *Sulphur, Notes on an Experiment with the Fumes of, for destruction of Rabbits in their Burrows. By W. Archer, Esq., F.L.S. From the Author.
 *Salmon Trout, Notes on. By M. Allport, Esq., F.L.S., F.Z.S.
 *Sun, The, and its Office. By F. Abbott, Esq., F.R.A.S.
 *Shells, Land, of Tasmania, Notes on. By Mr. W. Legrand.
 *Times newspaper, the, copy of, October 3rd, 1798, containing an account of the Battle of the Nile. From Rev. H. Kennedy.
 *Tobacco, "A Breife and Accvrate Treatise, concerning the taking of the Fume of," by Tobias Venner, Doctor of Physicke, 1621. From H. Cook, Esq.
 *Tasmania in 1870, by H. M. Hull, Esq. From Geo. W. Rex.
 *Trade, Free Intercolonial, pamphlet. By D. Randall, Esq., Adelaide. Teratology, Vegetable. Ray Society, Vol. for 1869.
 *Tasmanians, Last of the. By James Bonwick, Esq., F.G.S. From Dr. Milligan.
 *———, Daily Life of. By James Bonwick, Esq., F.G.S. From Dr. Milligan.
 *Thistle, Californian, Notes on. By W. Archer, Esq., F.L.S.

LIST OF PRESENTATIONS TO MUSEUM DURING 1870, WITH NAMES OF DONORS.

- Allport, M., Esq.—Insects in spirits, from Port Arthur. Part of Skull of Tunny, from North Coast of Tasmania. A Rail (*Rallus Lewinii*). Prawns taken from stomachs of Rock Cod. Schorl from Flinders' Island, and a Mass of Resin washed on shore at the same place. Two Fish, caught in the Derwent. [See *Emmelichthys nitidus* in Zool. of Erebus and Terror, page 47, plate 29]. A Black Snake. A Fox Shark, or Thresher.
 Allison, F., Esq.—A Pair of Mexican Spurs.
 Atkinson, Rev. H. D.—Specimen of *Ibacus Peronii*. A Spider Crab. Eleven specimens of Echinodermata.
 Abbott, J., Esq.—Coal from Rookwood, Three Hut Point.
 Bayley, Master E.—A Falcon (*Falco frontatus*).

- Butler, J., Esq., Dunedin, per J. W. Graves, Esq.—A femur of the Moa (*Dinornis* sp.)
- Brand, Mr., Oatlands, per the Hon. J. Whyte, Esq.—A foetal Wallaby.
- Baynton, Mr. W. E., Kingston.—Land Shells, Crustacea, &c.
- Butler, F., Esq.—Four specimens of Silver Ore from Penguin Creek.
- Butler, J. J., Esq.—An English Perch, from Bagdad.
- Crouch, Mrs. S.—A collection of Weapons, &c., from Fiji, viz. :—1 Pillow, 2 Pieces Tappa Cloth, 1 Female Chief's Dress, 1 Paddle, 2 War Clubs, 1 Piece Samoan Cloth, 1 Sandwich Island Spear, 1 Spear, Skull of Porpoise, Foetal Porpoise.
- Chisholm, Mr. D.—A large Fungus from a Gum Tree.
- Cole, Mr. W.—1 Spanish Silver Coin, Carolus III., 1781. 1 Half Dime, United States, 1854. 1 Brass Coin, Louis XVI. of France, 1792. 1 Silver Coin.
- Chapman, Mrs.—Seeds from Borneo.
- Clinch, Capt.—Jaw of Cestracion, or Port Jackson Shark.
- Cook, H., Esq.—A Treatise on Tobacco, 1621.
- Cearns, Mr.—Specimens of very large Oysters from North-West Bay.
- Dinham, G., Esq.—Two Stone Hatchets of Aborigines of Australia and Tasmania. Portion of Skull of Aborigine from Mona Vale. A Fossil Seed from the Sandstone, Somersetshire, England, found 80 feet below the surface. A Collection of Mineral specimens from England. A copy of "The whole Workes of W. Tyndall, John Frith, and Dr. Barnes," 1573.
- Degraves, C., Esq.—Four Fossils from the Limestone at Cascades.
- Docksey, Mr.—Three Mineral specimens from Adelaide.
- Davies, Mr. G.—Chicken with four legs.
- Exton, Mr., Oatlands.—A Rail (*Rallus Lewinii*).
- Edwards, Mr., Oatlands.—A White Kangaroo.
- Edwards, Mr., Kewstoke.—A very large specimen of Cornelian.
- Forsyth, Captain, brig Waverley.—A Snake and a Lizard from Java.
- Forster, J., Esq.—Part of Human Skeleton dug up at Hamilton.
- Graves, J. W., Esq.—2 Skulls of Axis Deer from Slopen Island. A Nest of the English Sparrow. A Black Snake. A Cape Barren Goose (*Cereopsis Novæ Hollandiæ*). A Sparrow Hawk.
- Giblin, Mr. R.—A Fish said to have been caught in Mr. Walker's Mill-Race (?).
- Gellibrand, T. L., Esq.—A Wedge-tailed Eagle.
- Giblin, T., Esq.—A list of subscribers, with signatures, to a testimonial for presentation to Mr. Taylor, of Macquarie River, for resisting an attack on his house by escaped convicts, dated 20th July, 1824. Paper-like Bark of Tea Tree.
- Gulliver, Mr. G.—125 specimens of Australian Coleoptera, named.
- Gresley, Mr. C. A.—Rock Specimens from River Mersey.
- Gibbons, Mr.—A Chicken with four legs.
- Hedberg, Mr. O. H.—A collection of Swedish Coins and Notes.
- Hopkins, H., Esq.—A foetal Lamb, a monstrosity. Two Dories.
- Hull, H. M., Esq.—Specimen of Iron Pyrites and Malachite. Shells, &c., from Warrnambool. Nest of White-shafted Fantail.
- Hedberg, Mr. O. E.—Jaws of Shark.
- Hutchison, Rev. J.—A Hermit Crab.
- Herpich, Mr.—Three Austrian Notes. Five Turkish Coins. One Austrian and two Hamburg Coins.
- Ikin, Mr.—Two Spines of Sting Rays. Twelve specimens of Crustacea.
- James, Mr. R.—Part of Skeleton of Ray (?). Jaw of Cestracion.
- Jeffrey, Mr. R. A.—Two very Large Mussels, from near New Wharf.
- Johnston, Mr. W.—A Bronze-winged Cuckoo.

- Knight, W., Esq., junior.—Samples of Cinnabar Ore from Cudgegong, New South Wales.
- Leake, J. T., Esq.—A specimen of Roman Brick from St. Alban's, England (the ancient Verulamium).
- Luttrell, Mr.—Specimens of Quartz from Tomahawk River and Waterhouse. Crabs from N. Coast.
- Lewis, Mr. Gidley.—A Russian Silver Coin of Empress Catherine, 1796. Specimen of Handwriting of General Moreau.
- Low, Mr. J. I.—A Black-cheeked Falcon.
- Lloyd, Captain, per Mr. O. H. Hedberg.—A Shingle of Macquarie Harbour Pine, from the gaol at Macquarie Harbour built in 1826.
- Mayson, Miss H., and Mitchell Miss J.—A Collection of Shells from East Coast, Tasmania.
- Marum, Very Revd. Archdeacon.—Fossils from near the Dromedary Mountain, Tasmania.
- Museum, Australian, Sydney, Trustees of.—Part of Skull of Fossil *Sarcophilus* from Wellington caves, N.S. Wales. Eight photographs of *Ceratodus Forsteri*.
- Müeller, Baron F. Von.—Skeleton of White Swan.
- Makepeace, Mrs., Swansea.—Four specimens of Echinodermata.—Egg cases of *Fasciolaria sp.*
- McKenna, Mr.—Living specimens of *Gordius* from New Town rivulet.
- Maclanachan, Hon. J., Esq., a Carolina Drake. A Peacock curiously marked.
- Maum, Mr. W.—A Copper Medal, apparently Masonic.
- Moir, Mr., jun.—Native Alum from near Brown's River.
- Milligan, Dr.—Copies of Bonwick's "Last of the Tasmanians," and "Daily Life of Tasmania."
- Nicholas, A., Esq.—Fossil *Spatangus* from New Zealand.
- Neilson, Mr. A.—A very large specimen of the common Slug.
- Nelson, Mr. H.—Sample of Coal from Greymouth, New Zealand.
- Officer, Sir R.—A *Platypus*.
- Propsting, Mr. R.—A Swamp Hawk.
- Plunkett, Mr.—Mittens made by the Esquimaux of Behring's Strait.
- Pybus, Mr. R., Bruni Island.—A Crown Piece of Charles II., 1677.
- Paisley, Mr.—A Cuttle Fish.
- Parker, Mr. T.—Auriferous Quartz from Pioneer Reef, Waterhouse.
- Pearsall, Mr.—A Chestnut-faced Owl.
- Pelham, Mr.—A Fish picked up on beach at Kangaroo Point.
- Philip, Mr.—Part of Vertebra of Whale.
- Price, Mr. W. H.—A Ram's Head with four horns.
- Rex, Mr. Geo. W.—The Crop of a Fowl containing an entire Whip-snake.
- Roblin, Mr. T.—Specimen of *Aplysia sp.* from Cornelian Bay.
- Read, R. C., Esq.—A Native Devil (*Sarcophilus ursinus*), with three young in pouch.
- Robinson, Captain, barque "Free Trader."—A sample of Bituminous Coal from a new seam at Newcastle, New South Wales.
- Robertson, Mr. R.—A large bony mass from a horse's jaw, which had been previously fractured.
- Smith, Mr. F.—Specimen of *Aplysia*, from Brown's River.
- Smith, Mr. G. J.—Piece of Native Box Wood, (*Bursaria spinosa*) with thorns embedded in its substance.
- Smith, Mr. W.—A Flounder, curiously marked.
- Smith, Mr. J., Brig "Waverley."—Snakes, Lizards, &c., from China.
- Serckoff, Captain, H.I.M's. Corvette "Boyarin."—A collection of Russian Coins, viz., 1 Gold, 5 Silver, and 9 Copper.

- Spurling, Mr.—Specimen of the *Chimera Australis*, caught in the Derwent.
- Salmon Commissioners.—A Salmon Parr from the breeding ponds, River Plenty.
- Scott, J. Esq., M.H.A.—Cast skin of Snake, from Ringarooma.
- Tapfield, Mr. M.—A specimen of Gorgonia, with a species of *Astrophyton* attached.
- Turner, Mr. H.—A Persian or Hindoo copper coin.
- Weber, Mr. M.—A War Club from Fiji.
- Weaver, Mr. G.—A Musk Duck.
- Warren, Captain R.E.—Feet of Cariboo Deer.—Mocassins made from hocks of Moose Deer.
- Wintle, Mr. S. H.—Two specimens of Granite from the Tomahawk River. Fossil ripple marks in sandstone, from Southport. 20 Geological specimens from New South Wales and Victoria.
- Wood, Mr. A.—A very curious Crustacean from Blackman's Bay.
- Williams, Captain.—A Cuttle Fish from East Coast.
- Wise, Mr. F.—A Smolt caught by an angler at New Norfolk.
- Young, Mr. James.—A Spider Crab. Human Skull from Fiji. Jaws of Port Jackson Shark (*Cestracion*).

PLANTS SENT FROM THE ROYAL SOCIETY'S GARDENS
DURING 1870, CHIEFLY TO PERSONS RESIDING ABROAD.

- March 15th.—To the Sydney Botanic Gardens.—One Case containing 61 plants.
- March 21st.—To Mr. E. B. Heyne, Seedsman, Adelaide.—Collection Seeds and Bulbs.
- March 29th.—To Mr. F. Terry, Government House, Brisbane.—Seven species Tasmanian Ferns.
- June 1st.—To Mr. G. Brunning, Nurseryman, Melbourne.—Twenty-one plants, 12 packets seeds.
- June 1st.—To Mr. J. Harris, Nurseryman, Melbourne.—Thirteen plants, 12 packets seeds.
- June 10th.—To the Botanic Gardens, Sydney.—One Case containing 76 plants.
- July 13th.—To B. F. Laurie, Esq., Encounter Bay.—One hundred *Morus alba*.
- July 16th.—To Messrs. Toole and Co., Nurserymen, Dublin, Ireland.—Ten packets seeds.
- August 17th.—To Messrs. Taylor and Sangster, Toorak Nursery, Melbourne.—Twenty-five plants, 10 packets seeds.
- August 17th.—To Ferd. Von Mueller, Director, &c., Botanic Gardens, Melbourne.—29 plants, 11 packets seeds.
- August 17th.—To Mr. G. Brunning, Nurseryman, Melbourne.—7 plants, 3 packets seeds.

PLANTS AND SEEDS SUPPLIED FOR THE DECORATION OF
PUBLIC PLACES, DURING 1870.

- April 25th.—For Castray Esplanade.—Collections of Creepers.
 June 2nd.—For planting Church grounds, Bothwell.—Seventy plants.
 June 3rd.—For planting Agricultural Society's grounds. Evandale.—
 Seventy plants, Collection Roses, 12 packets seeds.
 June 14th.—For planting in the Franklin Square.—15 plants, 10 plants.
 June 20th.—For planting at Hospital for Insane, New Norfolk.—Eighty
 plants.
 June 21st.—For planting round the foundation of Public Buildings,
 Macquarie-street.—Seventy three plants.
 June 24th.—For plantation at Cascade Factory, Upper Macquarie-street.
 Sixty-three plants.
 June 30th.—For planting about grounds of Government House.—Fifty
 plants.
 July 1st.—For planting avenue of Military Barracks.—Thirty-six plants.
 July 11th.—Mr. J. Archer, for church grounds, Longford.—Fourteen
 plants.
 July 12th.—For planting grounds of St. Michael's Church, New Nor-
 folk.—Fifty-four plants.
 July 12th.—For planting ground at Macquarie-street entrance to Domain.
 —One hundred and twenty plants
 July 30th.—For planting at Castray Esplanade.—Thirty-two plants.
 July 30th.—For planting about grounds of Government House.—Fifty
 plants.
 August 5th.—For planting grounds at Colonial Hospital.—Sixty-four
 plants.
 August 11th.—Ditto.—Thirty-three plants.
 October 14th.—Mr. T. Reidy, for grounds at Gaol. Twenty plants, 35
 packets seeds.

PLANTS AND SEEDS RECEIVED AT THE ROYAL SOCIETY'S
GARDENS DURING 1870, CHIEFLY FROM PERSONS ABROAD.

- April 25th.—From Mr. E. B. Heyne, Seedsman, Adelaide.—One hun-
 dred and thirteen packets seeds.
 May 13th.—From Mr. Joseph Harris, Nurseryman, Melbourne.—One
 case containing 28 plants.
 May 13th.—From Baron Von Mueller, Melbourne Botanic Gardens.—
 Three cases containing 153 plants.
 May 23rd.—From the Sydney Botanic Gardens.—Two cases containing
 74 plants.
 May 24th.—From Mr. G. Brunning, Nurseryman, Melbourne.—One
 case containing 31 plants.
 June 7th.—From Messrs. Toole and Co., Nurserymen, Dublin, Ireland.
 Twenty-four packets seeds.
 June 24th.—From Mr. G. Brunning, Nurseryman, Melbourne.—Bundle
 containing 31 roses.
 July 7th.—From Messrs. Taylor and Sangster, Toorak Nursery, Mel-
 bourne.—One box containing 26 plants.
 July 13th.—From Mr. C. F. Creswell, Hobart Town.—Twenty-four
 packets seeds received from Europe.

- August 25th.—From the Melbourne Botanic Gardens.—Seeds of a new Palm (*Pthycosperma Alexandræ*).
- September.—From Dr. J. Milligan, London.—Collection Flower and Vegetable Seeds, 68 packets.
- September 30th.—From Mrs. Woodin, Hobart Town.—Seeds of the Umbrella Pine received by her from China. (*Scradopitys verticillata*.)
- December 10th.—From Mr. C. F. Creswell.—Azalea and Camellia plants.
- December 31st.—From the Sydney Botanic Gardens.—One Case containing 43 plants.

F. ABBOTT, JUN.,

Superintendent R. S. Gardens.

PLANTS INTRODUCED INTO THE ROYAL SOCIETY'S GARDENS DURING 1870.

Acanthus montana	Dipteracanthus affinis
Alocassia metallica	Dombeya mollis
Alsophilla M'Arthurii	Dorstenia maculata
Alternanthera spathulata	Edwardsia chrysophilla
Amaryllis reticulata	Elæocarpus Hinau
Areca rubra	Elæodendron glaucum
Areca Baueriana	Epacris grandiflora
Asperula setosa azurea	Eranthemum tuberculatum
Atherosperma micrantha	Ethionema græcum
Bambusa stricta	Eucalyptus citriodora
Bannisteria chrysophilla	Eucalyptus Preisiana
Bauhinia tomentosa	Eudiandra virens
Beleperone oblongata	Eugenia Brasiliensis
Berberis pallida	" Ventenatii
Blaberopus sericeus	Fagus Carownii
Blandfordia flammea	Ferula communis
Bœhmeria argentea	Ficus columnaris
Boronia megastigma	Ficus peltata
Botryodendron latifolium	Flindersia maculosa
Bryonopsis laciniata	Fraxinus elliptica
Calocasia macrorrhiza variegata	Frenela cupressoides
Cassia Brewsterii	Frenela verrucosa
Centaurea Fenzlii	Gardenia chartacea latifolia
Cistus lusitanicus	Geranium crassifolium
Cleidon verticillatum	Grevillea acanthifolia
Clerodendron Thompsonianum	Grewia denticulata
Cocos plumosus	Hakea microcarpa
Cryptocarya oblongifolia	" pycnobotrys
Cycas Preissii	" ulicina
Dactylis glomerata variegata	Helicia ternifolia
Datura Carthagenensis	Helipterum anthemoides
Datura fastuosa	Hemicyclia australasica
Datura humilis pl.	Hibiscus Guilfoyleii
Dicksonia Youngiana	Hovea pannosa

Hydrangea japonica rosea
 " *japonica variegata*
Incarvillea sinensis
Inga pulcherrima
Iresene Lindenii
Jambosa acida
Jasminum heterophyllum
Justicia Lindenii
Kentia Balmoreana
 " *Canterburyana*
 " *Forsteriana*
Lasiandra Fontanesii
Laurus Cinnamomum
Licuala peltata
Linaria tristis
Linum perenne roseum
Magnolia anonæ folia
Malpigia coccifera
Martynia proboscidea
Melathra scabra
Melicope ternata
Menyanthes trifoliata
Michellia champaca
Nephelium tomentosum
Octoclinus Macleayanus
Palava flexuosa
Panax Marrayii
Pandanus Fosterii
Pandanus spiralis
Papyrus antiquorum
Passiflora trifasciata
Pavia Californica
Pentas Kermessina
Pentstemon Jeffreyanum
Pentstemon ovatum
Phillyrea media
Phytolacca sylvestris
Phoenix sylvestris
Pinus Aucklandiana
 " *contorta*
 " *Fremontiana*
 " *Lambertiana*
 " *palustris*
 " *pandurata*
Pittosporum Zealanicum
Platycodon grandiflorum
Plectroma ventosa
Pleroma heteromala
Podalyria myrtifolia
Podocarpus pruinosis
Prunopitys elegans
Pteris tricolor
Pterospermum lancifolium
Quercus bicolor
 " *lanata*
Quintinia Sieberii
Ratonia tenax

Ruellia longifolia
Sanchezia nobilis variegata
Sansievera carnea variegata
Scolopia Brownii
Scutellaria Tranei
Stephania hernandifolia
Stipa pennata
Strobilanthus viscosus
Taxus baccata elegantissima
 " *umbraculifera*
Tecoma grandiflora
Tarrietia Carrownii
Tatranthera ferruginea
Thunbergia javanica
Tilia argentea
Vanqueria lasiantha
Veronica diosmæfolia
Vitis capensis
 " *hypoglaucia*
Whitlavia gloxineoides
Wigandia Caracassana
Wigandia Macrophylla
Xanthorrhœa arborea
Xeranthemum purpureum
Zamia Preisseii
Rhododendron
 " *Gibsonii*

CAMELLIA.

Aspasia
Atrorubens
Loweii

AZALEA.

Alba magna
Carininata
Duc d'Nassau
Holdfordii
Magnifica
Ponticum glauca
Refulgens
Rubra plæno
Smithii
Souvenir d'l Exposition

GERANIUM.

Bicolor
Celestial
Chief Justice
Emile Lemoine
Evening Star
Ephraim
Forestier
Madame Lemoine

Ratonia Rose Charneaux
 Prince of Orange
 Rebecca
 Sophia Cussack
 Sophia Dumeresque
 Tiara
 Triumph de Themesnil
 Troubadour

ROSE.

Alba Carnea
 Charles Verdier
 Clotilde Rolland
 Ernest Boncenne
 Eugene Scribe
 Gloire de Ducher
 Horace Vernet
 La France

Madame Annie Wood
 " Charles Crapelet
 " George Paul
 " La Baronne de Rothschild
 " Marie Cirotde
 " Noman
 " Ledoux
 " Theresa Levet
 Marguerite de St. Amand
 Merville d'Anjou
 Miss Ingram
 Model of Perfection
 President Willermoz
 " Lincoln
 Princess Alice
 " Mary of Cambridge
 Sophie de La Villeboisne
 Souvenir du Dr. Jamain
 Vicomtesse de Vezins