

REPORT

OF THE

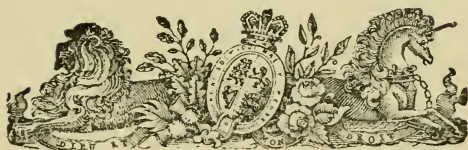
ROYAL SOCIETY

OF

TASMANIA,

FOR THE YEAR

1871.



TASMANIA:

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

1872.



PATRON:



The Queen.

# Royal Society of Tasmania.

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HER MAJESTY THE QUEEN.

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## Hon. Secretary :

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F. BUTLER, Esq.

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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South Australia.

DR. W. O. SONDER, Foreign Hon. Sec. Society of Naturalists, Ham-  
burg.

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., C.M.A.I.	...	"
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., Solicitor-General	... ..	Hobart Town
Bilton, H.	... ..	Glenorchy
†Barry, Sir R., Puisne Judge	... ..	Melbourne
Barnard, James	... ..	Hobart Town
Butler, Francis	... ..	"
Butler, J.	... ..	"
Bromby, Right Rev. C. H., Lord Bishop of Tasmania	... ..	"
Bright, R. S., M.R.C.S.L.	... ..	"
Butler, Hon. Henry	... ..	"
Buckland, H. J.	... ..	"
Browne, Justin McC.	... ..	"
Baynton, W. E.	... ..	Kingston
Bomford, F. E.	... ..	Rheban, Swansea
Bailey, Rev. Brooke	... ..	Hobart Town
Chapman, Hon. T. D., M.H.A.	... ..	New Town
Cook, Henry	... ..	Hobart Town
Clarke, J. M.	... ..	"
Creswell, C. F.	... ..	"
Cotton, Francis	... ..	Swanport
Crawford, Lieut.-Colonel	... ..	Hamilton-on-Forth
Crosby, W.	... ..	Hobart Town
Crowther, W. E.	... ..	"
Creasy, R. J.	... ..	"

Cruttenden, Thomas ...	...	...	...	Woodsden
Castray, L. R., A.C.G. ...	...	...	...	Hobart Town
Davies, Ven. Archdeacon ...	...	...	...	Hobart Town
Davies, John, M.H.A. ...	...	...	...	,,
Dear, Rev. R. E. ...	...	...	...	,,
Dobson, His Honor Mr. Justice ...	...	...	...	,,
Dunn, Hon. J. A. ...	...	...	...	,,
Du Cane, His Excellency Charles ...	...	...	...	Government House
Dobson, H. ...	...	...	...	Hobart Town
Foster, Hon. John, M.L.C. ...	...	...	...	Hobart Town
Fysh, Hon. P. O., M.L.C. ...	...	...	...	,,
Giblin, Thomas ...	...	...	...	,,
Gould, C., F.G.S., late Government Geologist	...	...	...	,,
Gorringe, Thomas ...	...	...	...	Green Ponds
Greig, C. C. ...	...	...	...	Hobart Town
†Gunn, R. C., F.R.S., F.L.S. ...	...	...	...	Launceston
Graves, J. W....	...	...	...	Hobart Town
†Gellibrand, W. A. B. ...	...	...	...	River Ouse
Hall, Dr. E. Swarbreck ...	...	...	...	Hobart Town
Harris, Rev. R. D. P., M.A. ...	...	...	...	,,
Hunter, Henry ...	...	...	...	,,
Huston, G. F. ...	...	...	...	New Norfolk
Huybers, A. ...	...	...	...	Hobart Town
Hopkins, H. ...	...	...	...	,,
Hazell, C. ...	...	...	...	Carlton
Howell, F. G. ...	...	...	...	Hobart Town
Irving, M.H., M.A., &c. ...	...	...	...	Melbourne
Irvine, P. ...	...	...	...	Hobart Town
Isaacs, R. McIntosh ...	...	...	...	Hobart Town
Jackson, Adam ...	...	...	...	Ross
Jamieson, Mr. ...	...	...	...	Hobart Town
†Jeffery, Molesworth...	...	...	...	Bournbank, Lachlan
Jackson, J. A., M.H.A. ...	...	...	...	Hobart Town
Kennerley, Hon. Alfred, M.L.C. ...	...	...	...	Hobart Town

Knight, W., jun.	...	...	...	...	Sandy Bay
Kermode, W. A.	...	...	...	...	Mona Vale
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
Roberts, H. L.	...	...	...	...	Hobart Town
Read, R. Cartwright	...	...	...	...	{ Redlands, New Norfolk.
Rule, J.	...	...	...	...	Bellerive
Riddoch, A.	...	...	...	...	New Norfolk
Ross, R. J.	...	...	...	...	Hobart Town
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.	...	...	...	...	"
Scott, J., M.H.A.	...	...	...	...	Launceston
Scott, J. R., M.H.A.	...	...	...	...	New Town
Salier, F. G.	...	...	...	...	Hobart Town
Swan, J., M.H.A.	...	...	...	...	New Town



Smith, P. T.	...	...	...	...	Ross
Travers, S. Smith	...	...	...	...	New Town
Walch, James	...	...	...	...	Hobart Town
Weaver, G.	...	...	...	...	"
Whitecomb, 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.	...	...	...	...	"
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	...	...	...	...	Bracknell

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 29th January, 1872: Morton Allport, Esq., F.L.S., F.Z.S., C.M.A.I., Vice-President, in the chair.

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

The Report for 1871 was then read.

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

Messrs. F. Abbott, jun., and C. Belstead, having been appointed scrutineers, the meeting proceeded to the election of four members of Council, in place of those retiring.

The ballot resulted in the re-election of the retiring Members, &c. :—

SIR ROBERT OFFICER.

T. STEPHENS, ESQ.

H. J. BUCKLAND, ESQ.

J. BARNARD, ESQ.

Messrs. F. Butler and H. Cook were, on the motion of Mr. T. GIBLIN, seconded by Mr. F. ABBOTT, senior, re-elected Auditors of annual accounts.

R. J. Ross, Esq., after due nomination, was elected a Fellow of the Society.

Mr. T. GIBLIN observed that the Fellows had great reason to be pleased with the present position of the Society. The debt had been reduced during the past, and was likely to be entirely cancelled by the end of the present year. The

general business of the Society had been conducted in a most efficient and satisfactory manner, and for all these matters he was sure everyone present felt they were much indebted to the zeal and attention of the hon. secretary, who had devoted a very great deal of valuable time to the affairs of the Society. He therefore proposed that the best thanks of the meeting should be given to the hon. secretary.

Dr. AGNEW, in returning thanks, expressed the satisfaction he felt in being able to report that the Society was so nearly clear of the debt which had for so long a period embarrassed it. It was not, he said, to be supposed, however, because we had devoted a portion of income to clear off an old debt that we had no other use for it. In fact our income was still far below what it ought to be. Our Museum was increasing, and required increased expense to keep it up. To supplement and explain it also, many valuable works of reference were urgently required for the library, and as soon as we were clear of debt every effort should be made to procure them. He might also allude to the additional accommodation given by the new building, which would greatly facilitate the work of the Museum. More room would be available for the preparation and exhibition of specimens, and on the whole he was glad to be able to congratulate the Fellows on the present state of the Society, which financially and otherwise would bear very favourable comparison with its condition at any former period.

A vote of thanks, on the motion of Mr. CASTRAY, seconded by Mr. BELSTEAD, was accorded to the Chairman.

Mr. ALLPORT having returned thanks the meeting terminated.

## REPORT.

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“The session of 1871 was opened on the 14th March, when a paper by M. Allport, F.L.S., F.Z.S., entitled ‘Observations on the Progress of the Salmon Experiment’ was read. The following papers were brought forward at the various meetings during the year:—‘Some Remarks on the Geology of Bruny Island,’ by the Rev. H. D. Atkinson; ‘On the Star  $\gamma$  Argus and its Nebula,’ by F. Abbott, F.R.A.S., F.R.M.S.; ‘On the Cultivation of the Sugar Beet,’ by F. Abbott, jun., Superintendent of Botanic Gardens; ‘On Sheep Breeding,’ by S. Smith Travers; ‘On a Mode of Poisoning Rabbits on Sheep Runs, &c.,’ by J. Bisdee; ‘On the Geological Structure of Flinders Island,’ by C. Gould, F.G.S.; ‘On the Islands of Bass’ Straits,’ by the same author; ‘On a New Genus of Freshwater Mollusks discovered in Tasmania,’ by W. Legrand; ‘Notes as to recent results arrived at by the Royal Astronomical Society relative to the Fluctuations of the Star  $\gamma$  Argus and its Nebula,’ by F. Abbott, F.R.A.S.; ‘On a Process by which Vitality in Eggs (fowls’) may be Preserved for an Indefinite Period,’ by S. Smith Travers.

“In addition to the above papers the following subjects have been introduced and discussed during the session:—‘Sericulture’ (with correspondence); ‘The Cultivation of the Cork Oak in Tasmania’; ‘Stone Alum, from Brook’s Creek, Tasmania’; ‘The Growth and Preparation of Cork in Europe and Africa’; ‘The Management of the Mulberry Tree in China and Japan for Silk Culture’; ‘The Extraction of Sugar from Beet-

root'; 'The Destruction of Rabbits in their Burrows,' &c., &c.

"Our monthly meteorological observations have been duly recorded, and the usual interchanges made with the Observatories of all the neighbouring colonies. The thanks of the Society are again due to all those who have so kindly assisted us in making these returns, and to whom special allusion was made in our last report. 'Notes on the Meteorology and Mortality of the Hobart Town Registration District,' by E. S. Hall, Esq., have been regularly received and printed.

"Our usual friendly intercourse with kindred Societies in various parts of the world has been kept up by exchanges of publications. In this respect, however, America has been by far the most liberal contributor to our library, valuable publications having been received not only from the Government, but also from the Smithsonian Institution and various scientific bodies.

#### 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.

"As was anticipated in last year's report our debt has been greatly reduced during the year, and will, it is confidently expected, be entirely cleared off before the close of 1872.

"The total income from all sources was as follows: Government grant to Museum, £200; to the Gardens, £400; subscriptions, £142; sale of plants, &c., £67 5s. 8d. This, with £30 12s. in



the hands of the Superintendent of the Gardens for payment of wages, and £20 expected to be realised from arrears of subscriptions, will give a total of £859 17s. 8d. The expenditure and liabilities, as per balance sheet, amount to £885 12s. 2d., leaving a balance to debit of £25 14s. 6d.

“ The current expenditure for the year has again been kept well within the income, as the following figures will show :—

	£	s.	d.
Total receipts from all sources	809	5	8
Total expenditure .....	781	3	11
	<hr/>		
Balance for meeting liabilities	28	1	9

#### GARDENS.

“ During the past year a substantial boundary fence has been erected, and about three acres of ground added to the area of the Gardens. The esplanade and sea-wall, the work on which necessarily remained in abeyance during the erection of the fence, are in such a forward state that the labour of a few weeks only is required for their completion. When finished, this portion of the Garden promises to become, as has always been anticipated, exceedingly attractive.

“ With a view of improving the main entrance to the Gardens various alterations have been made on the site occupied by the propagating yards, &c. It is expected that this work will be completed before the close of the present year, and it will greatly conduce to the convenience of visitors.

“ About two hundred new plants, many of rare merit, were introduced during 1871. From the Royal Gardens, Kew, we received an important consignment of seeds, consisting of 88 Asiatic,

177 American, and 234 European species. Many of these have already germinated, but others requiring previous preparation will not be ready for sowing till the coming autumn.

“A considerable quantity of seed from the Silesian Beet was saved from plants grown in the Gardens. Practical information as to the value of the root for feeding purposes having been made public through the meetings of the Society, a great demand for the seed sprang up as soon as it was known that we had a supply on hand for gratuitous distribution. Upwards of a hundred applicants from various parts of the colony have received supplies, and we may therefore hope that the cultivation of this valuable plant will now be more generally established in public favour than it has ever yet been.

“The number of visitors to the Gardens during the year was estimated at 26,273, or an increase of 4,829 on the previous year.

#### MUSEUM.

“Our evening meetings have been made additionally attractive by some valuable donations to the Museum. We make special mention of the presentation of a mounted collection of Mammals, Birds, &c., from Europe, South Australia, and New Zealand, by Mr. H. Gomolka. Also of a fine collection of Minerals from the islands in Bass' Straits by C. Gould, Esq., F.G.S.

“From the South Australian Institute Museum, Adelaide, we have received a collection of bird skins, procured during the exploration of the northern territory of that colony.

“Specimens of the arms and war material available for use in the colony have been furnished by the Government for exhibition. These have

been placed on a suitable stand in the lower room, and have attracted much attention from visitors.

“The usual and varied work of the Museum has been steadily carried on. This work in future will be considerably facilitated by the acquisition of a large building now on the premises of the Museum. Possession has also been taken by permission of the Government of the cottage formerly the office of the Public Works Department. This affords a very suitable residence for the Curator, and its proximity to the Museum is in many respects convenient.

“The number of visitors during the year was 10,970, being an increase of 2,072 on that of the previous year.”



# STATEMENT of the Funds of the ROYAL SOCIETY OF TASMANIA for the Year 1871.

RECEIPTS.			EXPENDITURE.		
	£	s. d.		£	s. d.
Annual Subscriptions from 81 Members .. ..	121	10 0	Jan. 17.—Balance overdrawn at Commercial Bank, as per statement for 1870.. ..		61 12 10
Arrears of ditto .. ..	10	10 0	Interest on overdrawn account, 1871, as per Bank Book		3 10 3
Life Members' composition .. ..	10	0 0	ROYAL SOCIETY.—Meteorological Instruments .. ..	4 11 6	
Total Royal Society .. ..		142 0 0	Printing and Advertising .. ..	46 4 11	
MUSEUM.—Grant-in-aid from Treasury .. ..	200	0 0	Postage, Parcels, &c. .. ..	3 14 11	
Total Museum .. ..		200 0 0	Collector's Commission on Subscriptions received, £132, at 5 per cent. .. ..	6 12 0	
BOTANIC GARDENS.—Proceeds of Sale of Plants, Seeds, &c. .. ..	67	5 8	Messenger for delivering Papers and Proceedings .. ..	1 5 0	
Grant-in-aid from Treasury .. ..	400	0 0	Furniture .. ..	1 11 6	
Total Botanic Gardens .. ..		467 5 8	Library, Books, and Stationery .. ..	22 18 9	
1872.—January 18.—Balance overdrawn at Commercial Bank .. ..		37 1 4	Total Royal Society .. ..		86 13 7
		£846 7 0	MUSEUM.—Salary of Curator .. ..	125 0 0	
			Wages of Attendant .. ..	50 3 4	
			Premium of Insurance .. ..	6 7 6	
			Purchase and Preparation of Specimens .. ..	8 0 0	
			Water Rate .. ..	3 2 8	
			Fuel and Light .. ..	5 1 11	
			Sundries and Petty Cash .. ..	2 0 0	
			Camphor, Spirits of Wine, &c. .. ..	8 13 6	
			Ironmongery .. ..	3 5 3	
			Freight and Carriage of Specimens .. ..	1 4 0	
			Fittings, Repairs, &c. .. ..	11 4 4	
			Sweeping Chimneys .. ..	0 13 6	
			Total Museum .. ..		224 16 0
			BOTANIC GARDENS.—Salary of Superintendent .. ..	150 0 0	
			Wages of Foreman, Labourers, &c. .. ..	263 4 0	
			Tools and Repair of ditto .. ..	12 1 8	
			Freight and Carriage of Plants .. ..	4 9 8	
			Stationery and Stamps .. ..	1 15 11	
			Forage .. ..	3 3 0	
			Ironmongery .. ..	9 13 11	
			Repairs, &c. .. ..	2 10 0	
			Seeds .. ..	3 10 6	
			Sundries .. ..	19 0 8	
			Total Botanic Gardens .. ..		469 9 4
					£846 7 0
Note.—Dr.—To overdrawn Balance at Bank .. ..	37	1 4			
Orger and Meryon, London, Balance due .. ..	19	5 2			
Wheatley & Co., to 31st December (not received), estimated at .. ..	20	0 0			
Total liability .. ..		76 6 6			
Cr.—By Cash in hands of Mr. Abbott, Superintendent of Gardens .. ..	30	12 0			
Subscriptions due .. ..	20	0 0			
Total assets .. ..		50 12 0			
Balance to debit .. ..		£25 14 6			

6th February, 1872.

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

## BOOKS PURCHASED &amp; PRESENTED DURING 1871.

[Presentations marked thus \*]

- Arts, Journal of Society of, Vol. 18, Nos. 937-8 ; Vol. 19, Nos. 939 to 988.
- Arts, Transactions of Society of, Vol. 18 ; (November 18th, 1869, to November 11th, 1870.)
- Athenæum, Parts 514 to 524. October 1870, to August 1871.
- \*Alge of Tropical Shores of Australia. By Dr. W. Souder, Hamburg. From the Author.
- \*Africa, South, and its Resources.
- \*African Diamond Fields, Guide to.
- \*Barometer Mannel (Coast), 1870-1871. From the Director, Meteorological Office, London.
- \*Builder, The, current numbers.
- \*Bible, Barker's, printed in 1637. From Mr. W. Hatton, Hobart Town.
- Conchologia, Iconica, Nos. 284 to 289.
- \*Census of Victoria, 1871. From Government of Victoria.
- \*Camphor, Motions of, on Water. By C. Tomlinson, Esq., F.R.S., &c.
- Emigrants, Hints to. By H. M. Hull, Esq. From the Author.
- Florist and Pomologist, Nos. 35 to 46, November, 1870, to October, 1871.
- \*Fossil Coniferæ, Observations on a new genus of. By Baron F. Von Mueller, C.M.G., F.R.S., &c., &c. From the Author.
- \*Fossilen Mollusken des Tertiær-Beckens von Wien. By Dr. M. Hornes. From Geological Society of Vienna.
- Gardeners' Chronicle, The, current numbers.
- \*Humboldt, Address delivered on centennial anniversary of birth of. By Professor Agassiz. From the Boston (United States) Society of Natural History.
- \*Invertebrata of Massachusetts. By Dr. A. A. Gould. 1 Vol., bound. From the Boston (U. States) Society of Natural History.
- \*Islands in Bass' Straits, On the. Two Papers by C. Gould, Esq., F.G.S. From the Author.
- Journal, Silliman's American, Vol. 50, No. 150. Vol. 1, n.s., Nos. 1 to 6, Vol. 2, Nos. 7, 9, 10.
- \*Journal, Agricultural of N. S. Wales, Vol 3, Nos. 1 to 11.
- Journal, Quarterly of Science, Current Nos.
- Journals of House of Assembly, Tasmania, Vols. 19 and 20.
- \*Journey to Musardu (Africa) .By B. Anderson, Esq., New York. From the Author.
- \*Journals of House of Commons, 1644.
- \*Literary Intelligencer, Walch's, Monthly Numbers. From Messrs. Walch and Sons.
- Magazine, Country Gentleman's. Vol. 5, Nos. 29-30 ; Vol. 6, Nos. 31 to 36 ; Vol. 7, Nos. 38-39.
- \*Meteorological Returns, New Zealand, for 1869. From the Government of New Zealand.
- \*—————, Monthly, September, 1870, to January, 1871. From ditto.
- \*—————, Sydney, Monthly. From the Government Observer.
- \*—————, South Australia, for 1869. From C. Todd, Esq., Government Observer.
- \*—————, Hobart Town, Monthly. From F. Abbott, Esq., F.R.A.S., F.R.M.S.
- \*—————, Swansea, ditto. From Dr. G. F. Story.

- \*Meteorological Returns, Westbury, ditto. From F. Belstead, Esq.  
 \*———, Port Arthur. ditto. From A. H. Boyd, Esq.  
 \*———, Melbourne, monthly. From R. J. L. Ellery, Esq., Government Astronomer.  
 \*———, New Zealand, ditto. From Dr. J. Hector, F.R.S., &c.  
 Natural History, Annals and Magazine of, Vol. 6, Nos. 35-36; Vol. 7, Nos. 37 to 44. Vol. 8, Nos. 45-46  
 \*———, Society of Wurtemberg, Annals of, 2 Parts, 1870. Nature, Vol. 2, Parts 15 to 21.  
 \*New Zealand Institute, Address of President of, 1871. From Dr. Hector.  
 \*——— Flax, Catalogue of Samples of Fibres prepared from. From ditto.  
 \*——— Birds, Catalogue of. From ditto.  
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 \*———, Essex Institute, Salem, Massachusetts, Vol. 6, part 1. From Institute. Also Bulletin of ditto, Vol. 1.  
 \*——— of American Philosophical Society, Vol. 11, No. 82. From the Society.  
 \*——— of American Academy of Arts and Sciences, Boston, Vol. 8. From the Academy.  
 \*Patents, Victorian, Indexes of, Vol. 4. From the Government of Victoria.  
 \*Reports of Mining Surveyors and Registrars Victoria 1870, and first quarter of 1871. From Victorian Government.  
 \*——— Quarterly Weather, Parts 2, 3, 4, 1869; Parts 1-2, 1870. From the Meteorological Office, Board of Trade, London.  
 \*——— of Meteorological Committee of Royal Society, London 1868-9-70. From ditto.  
 \*Report of Inquiry into connection between High Winds and Barometrical Differences, 1869. From ditto.  
 \*——— on Meteorology of North Atlantic. By Captain Toynbee, F.R.A.S. From ditto.  
 \*——— on use of Isobaric Curves. By the same Author. From ditto.  
 \*——— on Barracks and Hospitals, American. By the Surgeon-General, U. S. Army. From the United States Government.  
 \*——— Annual, of Department of Agriculture, U. S. America, 1868. From the Department.  
 \*———, 3rd, of Commissioners of Fisheries, State of Maine, 1869. From the United States Government.  
 \*———, of Superintendent of United States Coast Survey, 1866. From the U. S. Government.  
 \*———, Monthly, of Deputy Commissioner of Revenue, United States, 1869. From the Government, U.S.  
 \*——— of British Association, 1869. From the Association.  
 \*Statistics of Victoria, 1869 and 1870. From W. H. Archer, Esq.  
 \*———, Mineral, 1870. From R. Brough Smythe, Esq.  
 \*Salmonidæ, History of Introduction of into Tasmania, by M. Allport, Esq., Esq., F.L.S., F.Z.S. From the Author.  
 \*———, Additional Notes on. By the same Author.  
 \*Society, Royal Asiatic, Journal of, Vol. 4, Part 2; Vol. 5, Part 1.  
 \*———, Royal Geographical, Journal of, Vol. 39, 1869. From the Society.  
 \*———, Proceedings of, Vol. 14, Nos. 2, 3, 4, 5. From ditto.

- \*Society, Geological of London, Quarterly Journal of Vol. 26, parts 1 to 4, Vol. 27, Part 1.
- \_\_\_\_\_, List of 1870. From the Society.
- \*\_\_\_\_\_, Zoological of London, Proceedings of, 1869. Parts 2 and 3.
- \*\_\_\_\_\_, Linnean, Journal of, Vol. 10, No. 48, Vol. 11, Nos. 49 and 50 (*Zoology*.)
- \*\_\_\_\_\_, Vol. 11, Nos. 53, 54, 55 (*Botany*).
- \*\_\_\_\_\_, Proceedings of 1869-70, 1870-71.
- \*\_\_\_\_\_, Additions to Library, 1869-70.
- \*\_\_\_\_\_, Italian Geographical, Bulletin of, Vol. 6, 1871.
- \*Solutions, on Supersaturated. By C. Tomlinson, Esq., F.R.S., F.R.C.S. From the Author.
- \*\_\_\_\_\_. Supersaturated Saline, Action of low temperatures on. By the same. From ditto.
- \*\_\_\_\_\_, Sodid-sulphite, Constitution of. By the same. From ditto.
- \*Smithsonian Contributions to Knowledge, Vol. 16. From the Smithsonian Institution, Washington.
- \*\_\_\_\_\_, Miscellaneous Collections, Vol. 8-9. From ditto.
- \*\_\_\_\_\_, Report, 1868. From ditto.
- Snakes of Australia. By G. Krefft, Esq., C.M.Z.S., &c., Curator of Australian Museum, Sydney.
- \*Shells, Land of Tasmania. By Mr. W. Legrand. From the Author.
- \*Salmon experiment, Observations on. By M. Allport, Esq., F.Z.S. From the Author.
- \*Star  $\eta$  Argus and its Nebula. By F. Abbott, Esq., F.R.A.S., &c. From the Author.
- \*Sugar Beet, The. By F. Abbott, junr., Esq., Superintendent of Botanic Gardens. From the Author.
- \*Sheep Breeding. By S. Smith Travers, Esq. From the Author.
- \*Salmon Trout, On the. By M. Allport, Esq., F.Z.S., &c. From the Author.
- \*Transactions of Institution of Engineers in Scotland, Vols. 13 and 14. From the Institution.
- \*\_\_\_\_\_, of New Zealand Institute. From Dr. J. Hector, F.R.S.
- \*Temperature, Surface, of South Atlantic Ocean, Charts of. From the Director, Meteorological Office, London.
- \*Timber Trees eligible for industrial culture in Victoria. By Baron F. Von Müller, C.M.G., F.R.S., &c., &c. From the Author.

## LIST OF PRESENTATIONS TO MUSEUM DURING 1871, WITH NAMES OF DONORS.

- Abbott, Mr. F., jun.—A Blue Mountain Parrot (*Trichoglossus Swainsonii*).
- Allison, Mr. A., Macquarie River.—An Eel of a bright golden yellow colour.
- Allport, Master C.—Four Copper Coins and Tokens.
- Allport, Mrs. J.—A collection of Ferns from Madras.
- Adelaide (South Australian Institute Museum).—A named collection of Bird Skins from the Northern Territory (56 specimens, comprising 36 varieties.)
- Atkinson, Rev. H. D.—Three Geological Specimens from Peppermint and Birch's Bays.
- Allport, M., Esq.—Specimen of Kauri Gum from New Zealand.

- Baynton, W. E., Esq.—Land Shells from Brown's River. A specimen of "Native Bread."
- Buckland, J., Esq.—Skin of Monitor Lizard.
- Boyes, Mr. Lukin.—A pair of Musk Ducks (*Biziura lobata*). A small Bat.
- Bailey, Master F. G.—Butterflies from Ceylon. A Purse from the same place.
- Blacklow, Mr., Brighton.—A Wedge-tailed Eagle (*Aquila fucosa*).
- Butler, Mrs., Executors of the late.—230 Specimens of Shells. An Earthenware Lamp from a tomb at Misenum, Naples. Portion of a Human Jaw from Pompeii. A small Earthenware Cup from an ancient tomb at Athens. Mosaics, &c., from Baiæ Beach, near Cumæ, Naples, &c., &c.
- Browne, Mrs. Fielding.—23 Silver and 22 Copper Coins and Tokens, viz. :—*Silver* : One 5 lire, Italy, Napoleon I., 1808 ; five 10 cents, ditto ditto, 1808 ; one 10 soldi, ditto, ditto, 1813 ; one franc, France, Charles X., 1826 ; one half ditto, ditto ditto, 1827 ; one ditto ditto, Louis Philippe, 1843 ; one ditto ditto, 1835 ; one coin, Spain, Philip V., 1738 ; one quarter dollar, ditto, Charles III., 1768 ; one ditto, ditto, Charles IV., 1799 ; one dime, America, 1845 ; ditto ditto, 1845 ; one half-crown, Bank of England token, George III., 1808 ; one shilling, colony of Essequibo, George III., 1808 ; one quarter, ditto ditto, 1816 ; two quarters (cut) of Spanish dollar, 2 unknown. *Copper* : One penny, George III. (?) ; one half ditto, George II., 1735 ; ditto, Prince of Wales (no date) ; one half anna, East India Co., 1845 ; one 20 cash, ditto, 1803 ; one coin, French Republic ; one coin, Isabella II., Spain, 1836 ; one ditto, Brazil, 1828 ; two ditto, Russia, 1831, &c. ; one 10 cents, Napoleon I. ; two doits, Java, &c. ; seven English and Colonial tokens.
- Campbell, Mr. W. M., Port Cygnet.—A White Hawk (*Leucospiza Novæ Hollandiæ*.)
- Clark, Mr. J.—A common Rat caught by a mussel on a pile of the Fish-market Wharf.
- Chisholm, Mr. D.—An Arabic or Persian Coin, found at Clarence Plains. Specimens of Syngnathus and Hippocampus.
- Cassidy, Mr. J.—A Spirifer (silicified) from Point Puer, Tasman's Peninsula.
- Clifford, Mr.—Two Skulls of Wild Boars from New Zealand.
- Dove, Mr. S.—A large Mussel Shell from the Derwent.
- Dinham, Mr. G.—A Crown Piece of the "Gun Money" of James II., 1690.
- Edgar, Mr. F. S.—Two Turtle Shells.
- Fisher, Captain of the "Wild Wave."—Part of Tusk of Mastodon, from Siberia.
- Felmingham, Mr.—A Cat Fish (*Uranoscopus sp.*)
- Giblin, Mrs. W.—Two Specimens, Male and Female, of the Sydney Parrot, or King Lory (*Aprosmictus scapulatus*).
- Gates, Mr., Jerusalem.—A Diving Petrel (*Puffinaria urinatrix*) caught in a cornfield.
- Gage, Mr. John.—A human skull, probably aboriginal, found on Mount Direction, Risdon.
- Giblin, Mr. R.—A Kingfisher (*Alcyon azurea*).
- Gatenby, Mr. R., Macquarie River.—A male specimen of the Native Tiger (*Thylacinus cynocephalus*).
- Gourlay, Captain.—Two very large and fine shells of the Pearl Oyster, from the Solomon Island Group in the Pacific.



- Graves, J. W. Esq.—A Photographic Copy of the deed of conveyance of Franklin Island by Lady Franklin in favour of the Tasmanian Acclimatisation Society. An English Sparrow.
- Gomolka, Mr. H.—An extensive and valuable collection of New Zealand Birds (80), Fishes (13), Crustaceans (27), Shells (36); European Mammals (5), Birds (12), and South Australian Birds (7), Shells (33). These specimens were all collected, prepared, and mounted by the donor. Also a Mineral Specimen (Chromate of Lead) from Dun Mountain, New Zealand.
- Hull, Master.—Nest and Eggs of Honey-eater.
- Handley, Mr. T. B.—A Harpoon, much twisted, found in a whale captured off Macquarie Harbour by Captain Smith of the "Maid of Erin."
- Hedberg, Mr. Oscar.—Tanned Skin of a Jaguar (?)
- Holmes, Mr., Jerusalem.—A Green Parrot, unusually marked.
- Haywood, Master A.—A Portugese Copper Coin, 1814.
- Huston, Dr.—A Paradise Duck.
- Hissey, Mr.—Skeleton of a Fox (*Canis vulpes*.)
- Josephs, Mr. W.—A small Copper Coin, probably Persian, picked up at Clarence Plains.
- Jefferson, Master Wm., Fernshawe, Victoria (per J. W. Graves, Esq.—Nest and Egg of Lyre Bird (*Menura superba*), and four other nests, with eggs, from same locality.
- Leefe, Lieut.—A small collection of Shells from Fiji.
- Moir, Mr. J. G.—Fossils from the limestone near Brown's River.
- Macleanachan, Hon. J., Esq., M.L.C.—A Carolina Duck (*Dendronessa sponsa*). A ditto ditto.
- Mitchell, Mr. J.—A French coin (dix centimes), Napoleon III, 1856.
- Nash, Mr.—A German Lottery Ticket.
- Officer, Sir Robert.—A large Geological Map. A Land Rail (*Rallus pectoralis*).
- Pearce, Mr. J.—Two American Notes ("Greenbacks,") value 50 cents and 10 cents.
- Rowntree, Mr.—Polished Specimen of Native Myrtle (*Fagus Cunninghamii*).
- Read, R. C., Esq.—Specimen of Black Marble from the Florentine Valley, River Gordon, Tasmania. Specimen of Swainson's Lorikeet, shot at New Norfolk.
- Reid, A., Esq., Ratho.—An Albino variety of the common Quail.
- Ross, Mr., Battery Point.—A Snake said to be from Fiji.
- Scott, Jas., Esq., M.H.A.—Nine Stone Implements made by the Aborigines of Tasmania, from Macquarie River.
- Seal, M., Esq. (on behalf of the United Happy Valley Gold Mining Company).—A specimen of auriferous Quartz from Christmas Reef (very rich); ditto from new reef, Ovens, Victoria.
- Smith, Mr., Port Davey.—Portions of Skull of Sperm Whale, two Pelvic bones of ditto, ear bones of ditto; curiously twisted saplings; nest and eggs of White Shafted Fantail (*Rhipidura albiscapa*).
- Stokell, G., Esq.—A perfect Skeleton of a Sandwich (?) Island Native.
- Seal, M., Esq.—Fossil Seeds from a recent tertiary formation at Haddon, near Ballarat, Victoria.
- Shone, T. A., Mr., Back River.—A curious horny growth from the haunch of a sheep.
- Stephens, T., Esq.—A fine specimen of the large Australian Volute (*Voluta magnifica*.). Travertine from Dunrobin.
- Simpson, Mr. W.—An unusually large Egg of the Domestic Goose.

- Saunders, Mrs. J., Hobart Town.—A singularly shaped Sponge from Recherche Bay.
- Travers, S. Smith, Esq.—Collection of specimens illustrative of the carboniferous system of New South Wales; with notes on the same by W. Keene, Esq., F.G.S.
- Tapp, Mr., ship "Figaro."—A Danish Coin, 1 mark.
- Thorne, Mr. R., Pittwater.—Two specimens of Spine-tailed Swift (*Acanthylis caudacuta*).
- Tonkin, H. B., Esq.—Six fossils from Risdon.
- Williams, Captain, of American whaler "Osmanli."—A collection of Shells, and a War Club, from Fiji. Four Shells from East Coast, Tasmania. An English Halfpenny Token, 1788.
- Walker, E. T., Esq.—A Bow, 6 Arrows, and a branch of Coral used as a club, from Tanna, New Hebrides. Two Clubs, 2 pieces of Tapa Cloth, 3 Mats, a Pillow, 3 pieces of Sponge, sample of Sugar Cane, a piece of the root of a plant from which the drink called "Kava" is made, and two Beetles, from Fiji.
- Wright, Mr. R., Glenorchy.—A Spine-tailed Swift.
- Whitcomb, Mr. G.—A fine specimen of Kauri Gum from New Zealand.
- Watchorn, Mr. W.—A Spider Crab.
- Webb, Mr. B.—A Bronze Coin; a Copper ditto, Guernsey, 1834.
- Wood, Mr.—A Whip Snake found alive in a hollow log of firewood.
- Webb, Mr. E. J.—Two White Cockatoos (*Cacatua galerita*).
- Wiggins, Mr.—A species of Carp from Mauritius.
- Weymouth, Mr.—A small Map of Tasmania published in 1830 by Ross. (This copy is believed to have been used by John Batman, whose name it bears.)

## PLANTS AND SEEDS RECEIVED AT THE ROYAL SOCIETY'S GARDENS DURING 1871.

- May 11th.—From Mr. E. B. Heyne, Seedsman, Adelaide.—21 packets seeds.
- May 18th.—From Miss Huybers, Hobart Town.—20 packets seeds.
- May 27th.—From Dr. R. Schömberg, Director Botanic Gardens, Adelaide.—One case containing 29 plants.
- May 31st.—From Mr. C. Hollinsdale, Seedsman, Hobart Town.—57 varieties imported hyacinth.
- June 23rd.—From Baron Von Mueller, Director Botanic Gardens, Melbourne.—One case containing 33 plants.
- July.—From Dr. Hooker, Director Royal Botanic Gardens, Kew.—One box containing 499 packets seeds.
- September 1st.—From Mr. G. Brunning, St. Kilda, Victoria.—One box containing 31 plants.
- September 15th.—From Mr. J. Jones, Seedsman, Melbourne.—22 packets seeds.
- November 3rd.—From the Melbourne Botanic Gardens.—One box containing 18 plants.
- December 28th.—From J. R. Scott, Esq., New Town.—26 varieties bulbs.

## PLANTS AND SEEDS SENT FROM THE ROYAL SOCIETY'S GARDENS DURING 1871.

- January 21st.—By Her Majesty's ship "Blanche," to Dr. Schomburgh, Director of the Botanic Gardens, Adelaide.—One Case containing 42 plants.
- February 18th.—Per "Runnymede," to Mons. J. Linden, Royal Zoological and Horticultural Gardens, Brussels.—Three Plants *Dicksonia antarctica*.
- May 11th.—Per "Wagoola," to Mons. J. Linden, Brussels.—Three Plants *Dicksonia antarctica*.
- May 31st.—Per "Harrowby," to Mons. J. Linden, Brussels.—Two large Plants *Dicksonia antarctica*.
- September 6th.—To Mr. G. G. Brunning, St. Kilda Nurseries, Victoria.—Thirty Plants, 24 packets Seeds.
- September 6th.—To Baron Von Mueller, Director Botanic Gardens, Melbourne.—24 packets Seeds.

## TENCH SUPPLIED FROM THE POND IN ROYAL SOCIETY'S GARDENS DURING 1871.

- February 14th.—J. Lord, Esq.—12 fish.
- " 18th.—Mr. Witt.—6 fish.
- May 2nd.—Rev. Canon Sharpe, Bathurst, New South Wales.—24 fish.
- Total, 42 fish supplied during 1871.

## PLANTS SUPPLIED FROM THE ROYAL SOCIETY'S GARDENS DURING THE YEAR 1871 FOR THE PLANTING OF PUBLIC PLACES.

- July 5th.—For the Church of England Grounds, Bothwell.—100 Plants.
- July 11th.—For the Grounds of the Roman Catholic Cathedral, Hobart Town.—140 Plants.
- July 11th.—For the Grounds of the New Norfolk Asylum.—61 Plants.
- July 11th.—For the Longford Church Grounds.—80 Plants.
- July 14th.—For the Grounds of the Cascade Asylum.—140 Plants.
- August 4th.—For the House of Correction, Hobart Town.—24 Plants.
- August 4th.—The Public Works Office, for Franklin Square, Public Buildings, &c.—48 Plants.
- August 8th.—For the Grounds of the Public Buildings, Launceston.—18 Plants.
- August 8th.—For the Church Grounds, Green Ponds.—100 Plants.
- August 18th.—For the Government House Grounds.—50 Plants.



# PLANTS INTRODUCED INTO THE ROYAL SOCIETY'S GARDENS DURING 1871.

<i>Abrus precatorius</i>	<i>Diplacus Verchaffeltii</i>
<i>Abutilon luteum erectum</i>	<i>Echeveria bracteata</i>
" <i>petunice florum</i>	" <i>retusa</i>
" <i>vexillarium</i>	<i>Erica Candolleana</i>
<i>Acanthus latifolius</i>	" <i>Gilede</i>
" <i>spinosus</i>	" <i>Peteveri</i>
<i>Acer tataricum</i>	" <i>physoides</i>
<i>Amaranthus melancholicus ruber</i>	" <i>stricta</i>
<i>Amirola nitida</i>	" <i>vagans</i>
<i>Aquilegia truncata</i>	" <i>willmoreana</i>
<i>Aristolochia labiosa</i>	<i>Erinus alpinus albus</i>
<i>Artemisia gracilis</i>	<i>Erodium Muscarii</i>
<i>Azalea pontica</i>	<i>Gaultheria Shallon</i>
"    " <i>globosa</i>	<i>Genista aphylla</i>
"    " <i>grandiflora</i>	" <i>virgata</i>
"    " <i>macrantha</i>	<i>Gentiana acaulis</i>
"    " <i>princeps</i>	<i>Gillia linifolia</i>
" <i>miniata</i>	<i>Gloriosa virescens</i>
<i>Bahia lunata</i>	<i>Godetia Whitneyi</i>
<i>Berberis asperima</i>	<i>Grevillea manglesii</i>
" <i>chinensis</i>	<i>Helenium grandiflorum</i>
" <i>hypoglauca</i>	<i>Hibiscus Lambertii</i>
" <i>iberica</i>	<i>Hypericum Kalmianum</i>
" <i>sinensis</i>	<i>Iberis tenoreana</i>
<i>Betula fruticosa Gymelina</i>	<i>Kunzea peduncularis</i>
<i>Bomaria multiflora</i>	<i>Leptosiphon roseum</i>
<i>Bowenia spectabilis</i>	<i>Livistonia olivaeformis</i>
<i>Cassia grandiflora</i>	" <i>rotundifolia</i>
<i>Cassia Mary landica</i>	<i>Lonicera Xyltostemum</i>
" <i>Senna</i>	<i>Lycium Ruthenicum</i>
<i>Caryota sobolifera</i>	<i>Macleana calcagalli</i> [globosa]
<i>Centaurea Babylonica</i>	<i>Menziesia polifolia</i> purpurea
" <i>Clementii</i>	<i>Myrica cerifera</i>
<i>Chenopodium scoparium</i>	<i>Ophiopappus rubiginosus</i>
<i>Chacnestes longipes</i>	<i>Papyrus antiquorum</i>
" <i>officinalis</i>	<i>Pharbitis Huberii variegata</i>
<i>Cistus canescens</i>	<i>Philadelphus Gordonianus</i>
" <i>dauricus</i>	" <i>grandiflorus</i>
" <i>incanus</i>	"    " <i>florabundus</i>
" <i>laurifolius</i>	"    " <i>laxus</i>
<i>Clerodendron affine</i>	"    " <i>speciosus</i>
<i>Clivea nobilis</i>	" <i>tomentosus</i>
<i>Colchicum byzantium</i>	<i>Phleum pratensis variegata</i>
" <i>striatum</i>	<i>Phytosperma Alexandrae</i>
" <i>variegatum</i>	" <i>rubicola</i>
<i>Cotoneaster obovata</i>	<i>Poa pratensis variegata</i>
<i>Crataegus Paul's scarlet</i>	<i>Pyrethrum Schihatchewii</i>
<i>Crocus sativus</i>	<i>Pyrus sineusis</i>
<i>Cupressus Kewensis</i>	<i>Rhus copallina</i>
<i>Cydonia vulgaris</i>	<i>Rhus toxicodendron radicans</i>
<i>Cytisus alpinus</i>	<i>Ribes glutinosum</i>
<i>Delphinium Candalabrum</i>	" <i>atrosanguineum</i>
<i>Dianthus deltoides</i>	<i>Rubus Balfouriana</i>
" <i>dentosus</i>	" <i>biflorus</i>

*Rubus Borrerii*

- " *Cordifolium*
- " *leucostachya*
- " *Lindlyanus*
- " *Macronulatus*
- " *occidentalis*
- " *parvifolius*
- " *rhamnifolius*
- " *rudis*
- " *Sprengelii*
- " *suberectus*
- " *thyrsoides*

*Salvia candalabrum*

*Schizanthus papilionaceus*

*Silene Schafta*

*Solanum robustum*

*Spiræa canescens*

- " *canœfolia*
- " *nutans argentea*
- " *Nobleana*
- " *opulifolia*
- " *opulifolia nana*

*Statice spicata*

*Tacsonia Dr. Wylde*

*Thunbergia javanica*

*Tilia europæa glauca*

*Venideum calendulaceum*

*Ziriphus mucronulatus*

ROSE.

Baron Gonella

Camille Bernardin

Charles Rouillard

Climbing *Devoniensis*

Elie Morel

Fisher Holmes

Lady Emily Peel

Leopold Hausburg

Lord Herbert

Madame Barriot

" Boutin

" Calliat

" Jeanne Marix

" Pulliat

Souvenir d'Elise Varden

GERANIUM.

Carolina Longfield

Countess of Warwick

Duke of Edinburgh

Grand Duchesse Marie

L'Elegant

Madame Rose Charneaux

Princess Thyra

Rose Rendlater

Sparkhill Beauty

Sunset

Surpasse Beauty Suresnes

Tom Peuce Cerise

William Pfitzer

COLEUS.

Acquisition

Bewitching

Hon. Mrs. DuCane

Matchless

Prince Leopold

Refulgens

RANUNCULUS.

Calypso

Cicoque blanc

Enchantress

Fireball

Gloria Mundi

La Merveille

Leon d'Orange

Ophir d'Or

Orange Maxima brilliant

Perle blanc

Persiana

Regina Flora

Rougeater

Saturnus

Temple Van Opollo

Theodora

Utopia

F. ABBOTT, JUN.