

NOVEMBER, 1889.

The last meeting of the Royal Society for the present session was held at the Tasmanian Museum on Monday evening, November 18, 1889. There was a large attendance of Fellows and several ladies, and His Excellency the Governor (President) presided.

ELECTION OF FELLOWS.

Bishop Montgomery and Mr. J. H. Innes were elected Fellows, and Drs. Schewiakoff and Lanterbach and Mr. F. D. Power were elected corresponding members. The PRESIDENT, in declaring the results of the ballot, said he was sure they would all sympathise deeply with the Bishop in the trouble with which his family were afflicted, and had it not been for that he had no doubt they would have had him present with them that evening.

SOCIAL AND ECONOMIC PROBLEMS.

Mr. R. M. JOHNSTON, F.L.S., read copious extracts from a very able paper, which he had prepared, entitled "Root Matters in Social and Economic Problems." When he had concluded, the PRESIDENT said such a paper required the most careful study and thought before anyone should speak upon it, but he hoped next session they would have certain points in the paper discussed, which he was sure would raise issues of the greatest interest. The reading of the paper was received with loud applause.

THE FOUNDING OF HOBART.

Mr. J. B. WALKER read a paper entitled "The Founding of Hobart." This was a further contribution to the series of articles by that gentleman upon the early history of the colony, based upon original official documents preserved in the English State Record Office, and recently copied by Mr. Bonwick for the Tasmanian Government. A former paper had given the history of Lieutenant-Governor Collins' expedition in 1803 down to his abandonment of Port Phillip as unsuited for settlement. The present paper took up the story from the sailing of the first detachment from Port Phillip in the ships *Ocean* and *Lady Nelson* for the Derwent. The ships arrived on February 15, 1804, and Collins, being dissatisfied with Risdon, chose Sullivan's Cove as a better locality, and on February 20 pitched his tents on the site of Hobart. The landing place was Hunter's Island, now part of the Old Wharf, but then an island connected by a sandbank with the mouth of the creek, which at that time fell into the river at the Fishermen's Dock. A dense scrub bordered the creek, along the banks of which grew gum-trees of the largest size. The camp was pitched on the slope between the creek and the cove, and extended up towards the present site of the Cathedral. The description was illustrated by a very beautifully executed plan by Mr. A. Mault, showing the alterations made by subsequent filling in of the harbour. Governor Collins' despatches and general orders, and the diary of Mr. Knopwood, the chaplain, supplied the materials for an interesting account of the progress of settlement during the first months, the clearing of the ground now forming the centre of the city, the building of the first Government House—a wooden cottage on the site of the Town Hall—the location of the settlers at New Town Bay, the formation of a Government farm at Cornelian Bay, and the building of huts of "wattle and dab" for the prisoners. The prices of labour were fixed at 3s. 6d. per day for mechanics, and 2s. 6d. for labourers. Workmen were paid in provisions, too often in rum, and the only currency was small pro-

missory notes issued by the Government. Kangaroo, emu, pigeons, quail, and black swans were plentiful, and during the winter months black whales abounded in the river, as many as fifty being seen at a time. Explorations were made up the Derwent as far as Macquarie Plains, and the Huon was visited. The new settlement received the name of "Hobart Town" after the removal of the Risdon colony, but for years it was generally known as "The Camp." The second detachment from Port Phillip did not arrive until the 25th June, the Ocean being five weeks on the passage. A census taken at the end of July gave the total population at 433.

LIST OF ADDITIONS TO THE LIBRARY.

List of additions to the Library of the Royal Society, November.

Abhandlungen der Mathematisch Physikalischen classe, der Königlich Bayerischen, Akademie der Wissenschaften. From the Society.

American Museum of Natural History. Annual report of the Trustees, etc., for the years 1887-8-9. From the Trustees.

Annual report of the Canadian Institute. Session 1887-8. From the Society.

Bulletin of the United States Fish Commission for 1886 (bound). From the Commission.

Bulletin of the United States Geological Survey. No. 40. Changes in river courses in Washington Territory due to Glaciation, by B. Willis. 41. On the fossil faunas of the upper Devonian, the Genesee section, N. Y., by H. S. Williams. 42. Report of work done in the division of chemistry and physics mainly during the fiscal year 1885-6, by F. W. Clarke. 43. On the Territory and Cretaceous strata of the Tuscaloosa, Tombigbee, and Alabama rivers, by E. A. Smith and L. C. Johnson. 44. Bibliography of North American Geology for 1886, by N. H. Darlon. 45. Present condition of knowledge of the geology of Texas, by R. T. Hill. 46. The nature and origin of deposits of Phosphate of lime, by R. A. F. Penrose, junr. 47. Analyses of waters of the Yellowstone, National Park, with an account of the analyses employed, by F. A. Gooch, and J. E. Whitfield. From the Department.

Bulletin of the American Museum of Natural History, Central Park, New York, Vol. II., No. 2, March, 1889. From the Society.

Bulletin of the Essex Institute, Vol. 19, 1887, Nos. 1 to 12. From the Institute.

Bulletin de la Société de Géographie, Rédigé avec, la concours de la section de publication, par le secrétaires de la commission Centrale Trimestre 1 to 3, Tome IV., 1888. From the Society.

California State Bureau Mining. Eight annual reports of the State Mineralogist for the year ending October 1, 1888. From the Department.

Department of the Interior.—U.S. Geological Survey, J. W. Powell, director. Mineral resources of the U.S. calendar year, 1888, by D. T. Day, Chief of Division of Mining Statistics (bound). From the Department.

General Index to the first twenty volumes of the Journal (Botany), and the botanical portion of the proceedings, November, 1838, to June, 1888, of the Linnæan Society of London (bound). From the Society.

Geological and Natural History Survey of Canada, annual report (U.S.), Vol. II., 1886, reports and maps of investigations and surveys. From the Department.

Geological and Natural History Survey of Minnesota. Sixteenth annual report for the year 1887. Two plates and 89 other illustrations. From the Department.

Historical Collections of the Essex Institute, Vol. XXIV., January to December, 1887, Nos. 1, 2, 3. From the Institute.

Journal of the Royal Statistical Society, of London, General Index, pt. 4, Vols. XXXVI. to L, 1873-87, Vol. LI., pts. III. IV., September-December, 1888, Vol. LII., pts. I-II., March and June, 1889. From the Society.

Journal of the Linnæan Society of England (Botany), Nos. 156 to 1,773 (Zoology), Nos. 19, 20, 21, 32, Vol. XX. Nos. 129, 20, 21, Vol. XXI., No. 132. From the Society.

Journal of the Royal Asiatic Society of Great Britain and Ireland (new series), Vol. XX., pts. 3 and 4, July and October, 1888. From the Society.

Journal of the Royal Historical and Archæological Association of Ireland, Vol. VIII., fourth series, Nos. 76, 77, 1888-9. From the Society.

Journal of the Cincinnati Society of Natural History, Vol. XI., No. 4. From the Society.

Journal of the Trenton Natural History Society, No. 3, January, 1888. From the Society.

List of the Linnæan Society of London, session 1888-9. From the Society.

List of Geological Society of London, November 1, 1888. From the Society.

Meteorological observations made at Hobart, and other places in Tasmania during the year 1888, by Captain Short, R.N., Meteorological Observer. From the Department.

Memoirs of the National Academy of Sciences Vol. IV., part 1. First memoirs. The Cave fauna of North America, with remarks on the anatomy of the brain, and origin of the blind species by A. S. Packard. From the Society.

Proceedings of the Royal Colonial Institute, Vol. XX., 1888-9 (bound). From the Institute.

Proceedings of the Scientific meetings of the Geological Society of London, for the year 1888, parts 2, 3, 4; 1889, part 1. From the Society.

Proceedings of the Royal Geographical Society, and monthly record of Geography, Vol. X, Nos. 9 to 12, 1888; Nos. 1 to 8, 1889. London. From the Society.

Proceedings of the Royal Institution of Great Britain, Vol. XII., part II., No. 82; list of members, etc. From the Institute.

Proceedings of the Boston Society of Natural history. Vol. XXIII. Pt. III. February, 1886, December, 1887. Pt. IV., December, 1887, May, 1888. From the Society.

Proceedings of the Academy of Natural Sciences of Philadelphia. Pt. II., March and September, 1888. Pt. III., October and December, 1888. From the Society.

Proceedings of the American Philosophical Society, held at Philadelphia, for promoting useful knowledge. Vol. XXX., No. 128, XXXI., No. 129. From the Society.

Proceedings of the American Academy of Sciences, U.S. Vol. XV., whole series. Vol. XX. II., pt. 1, from May, 1887, to May, 1888, selected from the records. From the Society.

Proceedings of the Canadian Institute, Toronto, April, 1880, third series, Vol. VI., Fax., No. 2. From the Society.

Quarterly Journals of the Geological Society, Vol. XLIV., pt. 3, Nos. 175-6. Vol. XLV., pts. 1, 2, 3, Nos. 177-8-9, August and November, 1888; February, May, and August, 1889. From the Society.

Report of the Board of Governors of Public Library, Museum, and Art Gallery of South Australia, with the report of the Library Committee for 1888-9. From the Trustees.

Report upon International Exchanges under the direction of the Smithsonian Institution for the year ending June 30, 1888. By J. H. Kidder. From the Department.

Report of the Superintendent of the United States Naval Observatory for the year ending June 30, 1888. From the Department.

Report upon Natural History collections made in Alaska, between the years 1877 and 1881 by E. W. Wilson, edited by H. W. Henshaw. No. III. Arctic series of publications issued in connection with the signal service U.S. Army (two plates) (bound). From the Department.

Report of the committee appointed January 6, 1888, by the American Philosophical Society to assist the Commission on amended Orthography, created by virtue of a resolution of the Legislature of Pennsylvania. From the Society.

Revista do Observatoria Rio de Janeiro. From the Department.

Rude Stone Monuments of Ireland (Co. Sligo and the Island of Achill), by W. C. Wood-Martin. From the Royal Historical and Archaeological Society of Ireland.

Scottish Geographical Magazine, Vol. V., No. 10, October, 1889. From the Society.

Sitzungsberichte, der Mathematisch—physikalischen classe der K. B. Akademie der Wissenschaften zu München, 1886, Heft 1, II. From the Society.

Smithsonian Miscellaneous Collections, Vol. XXXII. The Constants of Nature, a table of specific gravity for solids and liquids, by F. W. Clarke. Vol. XXXIII., Bulletin of the Philosophical Society of Washington, Vol. VI. From the Institution.

Societe de Geographie, Compte Rendu, des Seances de la Commission Centrale Paraissant deux fois par mois, Nos. 1 to 17 1887. From the Society.

Table Generale des Annales de la Société, Entomologique de Belgique, Vol. XXX., et catalogue des ouvrages Periodique de la Bibliotheque, 26th December, 1887. From the Society.

Transactions and Proceedings of the Royal Geographical Society of Australasia (Victorian branch), Part I, Vol. VII. From the Society.

Transactions of the Institution of Engineers and Shipbuilders in Scotland, Vol. XXXI., 31st session, 1887-8 (bound). From the Society.

Transactions of the Seismological Society of Japan, Vol. XIII., part 1. From the Society.

United States Commission of Fish and Fisheries. Part XIII. Report of the Commission for 1885. A. Inquiry into the decrease of food fishes. B. The propagation of food fishes in the waters of the United States (bound). Illustrated. From the Commission.

United States Geological Survey. Clarence King, Director. Geology and Mining Industry of Leadville, Colorado, with atlas. By S. F. Emmons (bound). From the Department.

Victorian Naturalist, Vol. VI., No. 7. ninth annual report, 1888-9. From the Society.

Visitor's Guide to Salem, Mass. From the Editor.

Astronomical and Meteorological Workers in New South Wales, 1728 to 1860, by H. C. Russell, B.A. From the author.

Bolletino della Società Geografica Italiana, Ser. III, Vol. II., Fas. VIII. Agosto 1889. From the Society.

Boletim da Sociedade de Geographia de Lisboa. 8A Ser., Nos. 3 to 6. From the Society.

Bulletin of the Museum of Comparative Zoology, Vol. XVII., No. 4. Studies on the Primitive Axial Segmentation of the Chick (two plates). By Julia B. Platt. Studies from the Newport Marine Laboratory. Communicated by Alexander Agassiz. XVI. The Development of Osseous Fishes. II. The Pre-Embryonic Stages of Development, pt. first. The History of the Egg from Fertilisation to Cleavage. By Alexander Agassiz and C. O. Whitman (with 12 plates.)

Catalog 51, Americana Kartem und über oder gedruckt in Nörd und Süd—Amerik. From the Society.

Catalogue of the Fossil Reptilia, and Amphibia in the British Museum, Pt. II., containing the orders. "Ichthyopterygia and Sauropterygia" (bound). From the Trustees.

Medical and Surgical History of the War of the Rebellion, Pt. III., Vol. I., "Medical History," being the third Medical Volume (bound). From the Department.

Monthly Weather Review of the U. States (current parts.) From the Department.

On a new self-recording Thermometer by H. C. Russell, B.A., Sydney Observatory. From the Author.

President's address, by H. C. Russell, B.A., F.R.S., at the first meeting of the Australasian Association for the Advancement of Science. From the Society.

Proceedings and Scientific Transactions, II., III., IV., V. of the Royal Society of Dublin. From the Society.

Proceedings of the Royal Society of Victoria, vol. 1, pt. I. From the Society.

Proposed method of recording variations in the direction of the vertical by H. C. Russell. From the author.

Proceedings of the Royal Society of Queensland, 1889, vol. xi., pt. v. From the Society.

Proceedings of the Royal Society of England, vol. 39 to 45, pts. 241 to 280. From the Society.

Records of the Geological Survey of India, vol. xxii., pt. 3, 1889. From the Department.

Records of the Geological Survey of India (current numbers.) From the Department.

Records of Observations for 1881-4. From the Government Astronomer, Melbourne (bound).

Report of the Victorian Zoological Society, Annual. From the Society.

Report of Surgeon-General of Washington for 1888. From the Department.

Report of the Auckland Institute and Museum for 1888 9. From the Trustees.

Report of the Mines Department, Victoria, for quarter ending 31st March, 1889. From the Department.

Twenty-third Annual Report of the Colonial Museum, Wellington, New Zealand. From the Department.

Reports of Geological Explorations during 1887-8. From the Mines Department, Wellington, New Zealand.

Report of the Trustees of the Queensland Museum Annual. From the Trustees.

Report of Mr. Tebutt's Observations at Windsor, N.S.W., for 1888, also on the high tides of June 15, and 17, 1889, New South Wales. From the Author.

Report of the Secretary for Mines to the Hon. Duncan Gillies, M.P., on the Mineral Statistics of Victoria for the year 1888. From the Department.

Report of the Technological Museum of Sydney for 1887. From the Trustees.

Report and Proceedings of the Royal Society of South Australia for 1887-8. From the Society.

Revista do Observatorio Rio de Janeiro 1889. From the Department.

Results of Meteorological observations made in New South Wales during 1887 under the direction of H. C. Russell, B.A., F.R.S. From the Department.

Thunderstorm of October 26, 1888. The Sydney Observatory. From the Department.

Transactions and Proceedings of the New Zealand Institute for 1888. Vol. XXI. From the Department.

Victorian Naturalist. (Current numbers). From the Society.

Victorian Year Book for 1887-8. From the Department.

Scottish Geographical Magazine (current numbers). From the Society.

Results of Rain, River and Evaporation Observations made in N.S.W. during 1888. By H. C. Russell, B.A., F.R.S. From the Department.

Statistics for 1887, New Zealand. From the Department.

The Storm of 21st September, 1888. By H. C. Russell, Government Astronomer, Sydney, N.S.W. From the Author.

