

gether unusual energy, capacity and ambition. This is well proven by the fact, that when he reached his twentieth year he bought his father out, undertook himself the management of the mills, and simultaneously conducted a general store. It is not often that of a young man of twenty as much as this can be said. This double and extensive business Mr. McLaughlin managed with marked ability and success till 1881, when a desire, which he had had for some time, to go to Toronto, prevailed. In the Queen City he saw an opening for a successful grain and flour business; and in such manner he established himself there. He did not let his hold upon the profitable, and now historic, Mono Mills go, but still carries them on in conjunction with his business in grain and flour. It is hardly necessary to say that the success which attended Mr. McLaughlin's early exertions has not been denied to him in his new and larger sphere. For the greater part his time and attention are absorbed by his large and growing business, nevertheless he has paid much attention to politics in his day. He contested Cardwell with Thomas White, (now Minister of the Interior), in 1882, and though he was not successful, he polled the largest vote ever given to a liberal candidate in that constituency. Our subject has travelled much, and in his travels he has kept his eyes observantly open. He married, September, 1883, Isabella Small, who had formerly resided at Mono Mills. By this union he has had one child. Mr. McLaughlin is a Roman catholic. He is extremely genial, and very agreeable in manner.

**Whiteaves, Joseph - Frederick,** F.G.S., F.R.S.C., Ottawa, the subject of this sketch, was born December 26, 1835, at Oxford, England. He was educated near Oxford, London and Brighton. Between the years 1855 (or a little earlier) and 1861, he devoted his attention to the study of, first, the invertebrate zoology; and, second, to that of the invertebrate palæontology of the Jurassic rocks of the immediate vicinity of his native city. At the request of the late Professor Phillips, he prepared a paper on "The Land and Fresh-water Mollusca inhabiting the neighbourhood of Oxford," which was read before the Ashmolean Society in 1857, and published in the transactions of that body for the same year. He also published some of the results of his palæontological studies in the "Report of the British Association for the Advancement of Science," in 1860, and in the "An-

nals and Magazine of Natural History" (London), for 1861. During the last named year he came to Canada. From 1863 to 1876, both years included, he was scientific curator and recording secretary to the Natural History Society of Montreal, and contributed many papers on Canadian zoology and palæontology to its journal, the "Canadian Naturalist and Geologist." He prosecuted five deep-sea dredging expeditions to the Gulf of St. Lawrence in 1867, 1869, 1871, 1872 and 1873, the last three under the auspices of the Department of Marine and Fisheries of the Dominion government, and published papers descriptive of the results of these investigations in the reports of the Department of Marine and Fisheries, in the "Canadian Naturalist," the "Annals and Magazine of Natural History" (London), and in the "American Journal of Science and Arts." He first joined the Geological Survey of Canada, in 1874, and for two years had charge of the Mesozoic and Tertiary fossils and zoological specimens in the museum of that institution, under E. Billings. He was elected palæontologist and zoologist to the Survey in October, 1876, and subsequently one of the four assistant directors. His principal publications, since he joined the Survey, are illustrated monographs on the invertebrate fossils of the Upper Cretaceous rocks of Vancouver Island and other islands in the Strait of Georgia adjacent thereto; on those of the Middle Cretaceous rocks of the Queen Charlotte Islands; on those of the Guelph formation of Western Ontario; and on those of the Laramie and Cretaceous rocks of the Bow and Belly River districts. Also various papers on the fossil fishes of the Devonian rocks of Scanmenac Bay, P.Q., and on those of Campbellton, N.B., as well as others on the recent marine invertebrata of the Pacific Coast of Canada. In addition to those in the annual reports of the Survey, he has contributed papers, mostly on palæontological subjects, to the Transactions of the Royal Society of Canada; to the Reports of the American Association for the Advancement of Science, to the "American Naturalist," and to the "American Journal of Science and Arts." He was elected an honorary member of the Ashmolean Society, Oxford, England, in 1857; a Fellow of the Geological Society of London, in 1859; an honorary member of the Natural History Society of Montreal, in 1876; and a Fellow of the Royal Society of Canada, in 1882. He has worked a good deal with the microscope, and has devoted the greater part of his life

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