

solution of the difficult problems presented in these various fields, characterizing nearly as many petrographical provinces, has left a record of noteworthy achievement to our science. His writings are numerous and important. Fearless in all his endeavours to ascertain the truth, he published the same, as it presented itself to him, in an equally fearless fashion. Of a vigorous temperament and endowed with unbounded activity and intellectual strength, Dr. Barlow found a wide field for his geological investigations, and his reports breathe that spirit of originality, of thought, and of personal care and attention, of minute petrographical and microscopical details, which were necessary in the study of the many areas of ore-deposits entrusted to him by the various directors of the Geological Survey under whom he wrought for the past twenty-five years. It was under Dr. Selwyn and Dr. Dawson, as well as under Dr. Low, that he was enabled to do his best work. In mining centres he was the welcome geologist and friend to be consulted, and his information both in the field and in the office was the final word that gave satisfaction to the various inquiries made covering the areas above mentioned. His loss is great, and his work was thoroughly good during the brief half-century of his existence. At the March (1914) meeting of the Canadian Mining Institute held in Montreal he was the retiring President, and he did much for the Institute and the mining fraternity to bring about close relations between the thoroughgoing geologist and the practical mining engineer, a relation of the greatest value in any community where the mineral resources of a country are of such vast import as in Canada, realizing as they do now an annual value of some 135,000,000 dollars. During the Twelfth International Congress of Geology held in Canada last year Barlow was a host in himself. In him Canada has lost a diligent and successful as well as honest and fearless geologist, whose convictions went before his personal advantages or aggrandisement in an unselfish aim to bring his chosen science and its value to the State to the forefront in an unblemished career.

H. M. AMI.

SEAFORD, SUSSEX.

NEWTON HORACE WINCHELL.

BORN DECEMBER 17, 1839.

DIED MAY 2, 1914.

PROFESSOR NEWTON HORACE WINCHELL died on Saturday, May 2, in a hospital at Minneapolis (the city in which he lived). He was in active health and work up to a few days before his death (which resulted from a surgical operation). Professor Winchell was born in N.E. New York on December 17, 1839, and died in his 75th year. His great work was as State Geologist of Minnesota, for twenty-eight years (1872-1900). He was Founder and Editor of the *American Geologist*, which was published for eighteen years in Minneapolis (1888-1905). Since 1906 Professor Winchell was in charge of the Department of Archæology of the Minnesota Historical Society.

MINNESOTA HISTORICAL SOCIETY.
May 13, 1914.

WARREN UPHAM,
Secretary and Librarian.