

ciencies in the knowledge necessary to the success of an observer, isolated as I should be from the centres of science and from the aid of specialists, and thrown entirely on my own resources. The interruption of the continuity of my studies was thus, in some respects, an advantage, especially as, in the interval, I had the privilege of associating in field work with Lyell and Logan.

Whilst in Edinburgh, I received much personal kindness and useful guidance from Jameson, Forbes, Balfour, and other leading men connected with the University. I also enjoyed the acquaintance of Alexander Rose, a most single-hearted and earnest man, and an excellent mineralogist,—being a special authority on the minerals of Scotland and Iceland. It was through him that I was introduced to Mr. Sanderson, the lapidary, who had sliced fossil wood for Witham and Nicol, and from whom I learned something of the art of preparing transparent slices of rocks and fossils for the microscope, which was afterwards of great advantage to me, although I never made this work a specialty, but employed it only as an accessory in general geology.

Even Edinburgh, in the years when I at-