

object is impartially represented. I wish, therefore, to make a definite stand against the practice, and prefer to publish photographs which are entirely untouched. I may here take the opportunity of thanking Mr. Ardley of the McGill University Museum for his kindness in taking the two photos of *Alethopteris* on pl. XII and XIII, and of acknowledging the care and skill which Mr. H. G. Herring, of the British Museum, devoted to the difficult task of photographing all the other specimens illustrated.

MATERIAL USED FOR THE PRESENT WORK.

The majority of Sir William Dawson's types are now in the McGill University collection. On two occasions in Montreal, I examined the collections there, and have had the immense advantage of having nearly all the St. John specimens lent to me in London, where I could work with all the various specimens from different collections beside me together. To the Dean of the Science Faculty and the Governors of McGill University, I am greatly indebted for this inestimable assistance in my work. I am thus not only able to give photographs of most of the actual types, but it has been possible to study at length Sir William Dawson's material, and to place his specimens side by side with the European ones with which I have compared them. This was of special service in Paris—where I took over the more debatable types for consultation with M. Zeiller, the distinguished palaeobotanist of the *École des Mines*, to whom I am deeply indebted for help and for his remarkable kindness while I was in Paris studying the specimens in his collections.

In the St. John Natural History Museum there is also a valuable collection of St. John plants, including several of the specimens worked on by Sir William Dawson. Mr. McIntosh, the curator of the Museum of the Natural History Society, gave me every facility for seeing the specimens in his keeping while I was in St. John, and also lent me a number of the more interesting and important to bring to London for my comparative study. Several of these specimens are figured in the present paper, and for their use I am also greatly indebted.

In St. John also, Dr. Matthew kindly showed me as much of his collection as was available. He was kindness itself, and