

zoological science ; illuminating, as it does, our knowledge of existing orders by the deeper insight acquired into forms of organic life that have long been extinct, it is a collateral contribution to scientific truth, analogous in kind, though not in degree, to that comprehensive demonstration of the typical skeleton, by which it is traced in all its details, from the highest to the lowest vertebrate forms. Such grand generalizations, based, not on theory, but on laborious and exhaustive induction, reveal to us the plan of the Creator, wrought out in His unchangeable purpose, through all the countless ages during which our planet has been the theatre of life. They tell us, moreover, in unmistakeable language, that even to work out one single idea of the Divine mind, it has required the unmeasurable duration of time since that initial act in which God said let there be light, and called into being this well-ordered material world. "Lo these are parts of his ways ; but how little a portion is heard of him ; but the thunder of his power who can understand ?"

In the fossil radiata and mollusca of our Canadian palæozoic formations, illustrated and described in the recently published *Decades of our Geological Survey*, we are aided in the investigation of life as it existed in that primary geological period in which the earliest traces of organic form appear ; but an altogether different interest has been recently excited by discoveries at the very opposite end of the geological scale. It is now nearly ten years since M. Boucher de Perthes announced the discovery of the traces of human art in the same undisturbed gravel of the north of France, in which the bones of the fossil elephant and other extinct mammals are found. More recently fresh discoveries have tended to show that the statements set forth in the "*Antiquités Celtiques et Antediluviennes*" merited greater attention than, on various accounts, they received ; and the testimony of Mr. Prestwick, Sir Charles Lyell, and other thoroughly trustworthy observers appears to place the fact beyond all controversy that artificially wrought weapons and implements of flint have been found both in France and England, in such contiguity with the extinct fossil mammals of the drift, as to leave little room for question that at a period long anterior to the earliest indications of history or tradition, the north of Europe was occupied by a human population in a condition not less rude than the Indian aborigines of our own American Forests.

Purposing as I do, to take up the comprehensive inquiries to which