

shows a connection between the geological formation of the earth and that of its Satellite.

Although in the more recent geological formations, there are numerous fossils met with corresponding to similar living species, few, very few, are the existing types or links connecting the present with the earlier geological periods. The few that occur to me I will allude to. The "Gar-pike," or Bill-fish of our Canadian waters, comparatively rare here, but abundant in the West, helmeted and mailed in almost impenetrable scale armor, with its jaws hinged similar to the Alligator, and its vertebræ of the regular ball and socket formation, points to a close affinity with the Saurians and the fossil Ganoids of Agassiz. The Trilobites have long since ceased to exist, but in the Antarctic Ocean science has brought to light a curious crustacean, (*Glyptonotus Antarcticus*), which strongly recalls the extinct form of the Trilobite. The Crinoids and Encrinites of the Palæozoic world, have a link remaining extant in the pentacrinus of the Caribbean Sea, with its delicate strong stem, bearing on its summit a symmetrical cup or body, around the margin of which are supported five strong arms, which ramify into scores of fingers. The whole structure is composed of thousands of little stony pieces, fitted together with mathematical precision. The fossil plants of our coal measures have their existing links in the arborescent ferns of Australia; the lowly club moss of our own woods and the diminutive equisetum of our swamps, and the tangled thickets of tropical morasses; but the majority of the early forms of creation, having fulfilled their work have passed away, leaving no existing type or link to be associated with their story record in the rocks.

There are many apparent connections between animal and vegetable life, or between different orders of *animals* which are apt to mislead a novice from their similarity to a transition state. Such, for instance, is the Sea Anemone, presenting all the colors, hues and appearance of the flower of that name, though belonging in reality to the animal kingdom. The same remark applies to the Sponge, which, though apparently growing at the bottom of the sea like a plant, is now acknowledged to be of animal growth and allied to the coral builder. The *Ornithorhynchus* of Australia, an animal possessed of the bill of the duck, and with webbed feet, is not a connecting link as once was thought between beasts and birds, although possessing certain properties of both. That the Armadillo is a link