

few other forms, possibly of Protozoa and worms. An imaginary phylogeny of animal life from Monads to Trilobites would be something as long as the whole geological history. Yet it would be almost wholly imaginary, for the record of the rocks tells little or nothing. In face of such an imperfection as this, geologists should surely be humble, and make confession of ignorance to any extent that may be desired. Yet we may at least, with all humility and self-abasement, ask our critics how they know that this great blank really exists, and whether it may not be possible that the swarming life of the early Cambrian may, after all, have appeared suddenly on the stage in some way as yet unknown to us and to them.

- REFERENCES : "Fossil Sponges from the Quebec Group of Little Metis, Lower St. Lawrence" : *Transactions Royal Society of Canada*, 1890.
"Résumé of the Carboniferous Land Shells of North America" : *American Journal of Science*, 1880. "Burrows and Tracks of Invertebrate Animals" : *Journal Geological Society of London*, 1890.
"Notes on the Pleistocene of Canada" : *Canadian Naturalist*, 1876.
"Air-breathers of the Coal Period" : *Ibid.*, 1863.