

parts—*there* are its three hearts, and its well-stored ink-bag, chattels that it could scarce have borrowed anywhere. It occupies, according to Cuvier, a sort of central place in the animal kingdom, where roads from all the various divisions converge, and the three hearts and the ink-bag mark, as it were, the point at which they meet. Extensive and wonderful, however, as its combination of parts may seem, its extinct congener the Belemnite added to the number at least one part more. Like that curious gelatinous zoophyte, the Dutch man-of-war (*Physalia*), it was furnished with a sailing apparatus. Not only could it swim tail foremost, and walk head downwards, like our existing cuttle-fish; but it could also raise itself to the surface of the water, and there, spreading out its sail of thin membrane, speed gaily away before the wind. Several of the existing congeners of the creature, such as the *Argonauta Argo*, are sailors still; but, unlike the Belemnite, or its analogue the cuttle-fish, they are furnished with external shells. They are sailors each in its own little boat, whereas the Belemnite was a sailor without a boat,—such a sailor as Franklin was, when, laying himself at full length in the water, he laid hold of the string of an elevated kite during a smart breeze, and, without effort on his own part, was drawn across a small lake by the impulsion of the wind above.

I have full in my view where I write, a shelf occupied with ranges of our Scotch Belemnites of the Lias placed on end, and leaning against the wall, like muskets in an armoury. A second shelf exhibits ranges of our Scotch Belemnites of the Oolite. Ere adverting, however, to their specific differences,—differences which their mode of arrangement renders apparent at a glance, let me select for description an average specimen, as a type of the order. Here, then, is the *Belemnite elongatus*, from the Upper Lias of Eathie. The architect gives the proportions of his columns by a scale of diameters. The height of the Tuscan column is equal to