

sexual attraction of entire organisms. When we find a centralized nervous system developed, we may speak of two organisms being in varying degrees aware of one another. The awareness is by and by accompanied by a reflex of emotion, the creatures seem to be fond of each other. Various æsthetic attractions are added to the primary ones, and, on a long inclined plane, "love" emerges. At the same time, however, there has evolved a parento-filial affection, and it is easy to understand how "love", broadened in the family, returns enhanced to the pair. And along with this there is also the evolution of a sense of kinship, which is expressed in mutual aid.

Our point is simply that sexual attraction, kinship, altruism, and love (or whatever names be given to their pre-human analogues) are important facts and factors in life, which must be taken account of in connection with the struggle for existence. This has been said many times by Spencer, Darwin himself, Fiske, Geddes, Kropotkine, Drummond, Coe, and others.

Just as Empedocles recognized two ultimate forces—love and hate,—so Spencer has insisted on recognizing altruism as well as egoism in nature. "If we define altruism as being all action which, in the normal course of things, benefits others instead of benefiting self, then, from the dawn of life altruism has been no less essential than egoism. Though primarily it is dependent on egoism, yet secondarily egoism is dependent on it." "Self-sacrifice is no less primordial than self-preservation."

From another side the conception of the struggle for existence has been modified in post-Darwinian days. It has been deepened by a recognition of the struggle of parts within the organism,—the struggle of organs, tissues, and cells; the idea is verifiable in the history of ova and spermatozoa; and Weismann has suggested its application to the behaviour of the minute particles which compose the germ-plasm.

When we bear in mind (*a*) the great variety of cases in which the phrase cannot be literally used; (*b*) the great number of cases in which there is no direct com-