

DRUMMOND HENRY

ETERNAL LIFE

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*"This is Life Eternal – that they might know Thee, the True God, and Jesus Christ whom Thou has sent."
– Jesus Christ.*

"Perfect correspondence would be perfect life. Were there no changes in the environment but such as the organism had adapted changes to meet, and were it never to fail in the efficiency with which it met them, there would be eternal existence and eternal knowledge." —*Herbert Spencer.*

ONE of the most startling achievements of recent science is a definition of Eternal Life. To the religious mind this is a contribution of immense moment. For eighteen hundred years only one definition of Life Eternal was before the world. Now there are two.

Through all these centuries revealed religion had this doctrine to itself. Ethics had a voice, as well as Christianity, on the question of the *summum bonum*; Philosophy ventured to speculate on the Being of a God. But no source outside Christianity contributed anything to the doctrine of Eternal Life. Apart from Revelation, this great truth was unguaranteed. It

was the one thing in the Christian system that most needed verification from without, yet none was forthcoming. And never has any further light been thrown upon the question why in its very nature the Christian Life should be Eternal. Christianity itself even upon this point has been obscure. Its decision upon the bare fact is authoritative and specific. But as to what there is in the Spiritual Life necessarily endowing it with the element of Eternity, the maturest theology is all but silent.

It has been reserved for modern biology at once to defend and illuminate this central truth of the Christian faith. And hence in the interests of religion, practical and evidential, this second and scientific definition of Eternal Life is to be hailed as an announcement of commanding interest. Why it should not yet have received the recognition of religious thinkers – for already it has lain some years unnoticed – is not difficult to understand. The belief in Science as an aid to faith is not yet ripe enough to warrant men in searching there for witnesses to the highest Christian truths. The inspiration of Nature, it is thought, extends to the humbler doctrines alone. And yet the reverent inquirer who guides his steps in the right direction may find even now in the still dim twilight of the scientific world much that will illuminate and intensify his sublimest faith. Here, at least, comes, and comes unbidden, the opportunity of testing the most vital point of the Christian system. Hitherto the Christian philosopher has remained content with the scientific evidence against Annihilation. Or, with Butler, he has reasoned

from the Metamorphoses of Insects to a future life. Or again, with the authors of "The Unseen Universe," the apologist has constructed elaborate, and certainly impressive, arguments upon the Law of Continuity. But now we may draw nearer. For the first time Science touches Christianity *positively* on the doctrine of Immortality. It confronts us with an actual definition of an Eternal Life, based on a full and rigidly accurate examination of the necessary conditions. Science does not pretend that it can fulfil these conditions. Its votaries make no claim to possess the Eternal Life. It simply postulates the requisite conditions without concerning itself whether any organism should ever appear, or does now exist, which might fulfil them. The claim of religion, on the other hand, is that there are organisms which possess Eternal Life. And the problem for us to solve is this: Do those who profess to possess Eternal Life fulfil the conditions required by Science, or are they different conditions? In a word, Is the Christian conception of Eternal Life scientific?

It may be unnecessary to notice at the outset that the definition of Eternal Life drawn up by Science was framed without reference to religion. It must indeed have been the last thought with the thinker to whom we chiefly owe it, that in unfolding the conception of a Life in its very nature necessarily eternal, he was contributing to Theology.

Mr. Herbert Spencer – for it is to him we owe it – would be the first to admit the impartiality of his definition; and from the connection in which it occurs in his writings, it is obvious

that religion was not even present to his mind. He is analyzing with minute care the relations between Environment and Life. He unfolds the principle according to which Life is high or low, long or short. He shows why organisms live and why they die. And finally he defines a condition of things in which an organism would never die – in which it would enjoy a perpetual and perfect Life. This to him is, of course, but a speculation. Life Eternal is a biological conceit. The conditions necessary to an Eternal Life do not exist in the natural world. So that the definition is altogether impartial and independent. A Perfect Life, to Science, is simply a thing which is theoretically possible – like a Perfect Vacuum.

Before giving, in so many words, the definition of Mr. Herbert Spencer, it will render it fully intelligible if we gradually lead up to it by a brief rehearsal of the few and simple biological facts on which it is based. In considering the subject of Death, we have formerly seen that there are degrees of Life. By this is meant that some lives have more and fuller correspondence with Environment than others. The amount of correspondence, again, is determined by the greater or less complexity of the organism. Thus a simple organism like the Amoeba is possessed of very few correspondences. It is a mere sac of transparent structureless jelly for which organization has done almost nothing, and hence it can only communicate with the smallest possible area of Environment. An insect, in virtue of its more complex structure, corresponds with a wider area. Nature has endowed it with special faculties for reaching out to the Environment on many

sides; it has more life than the Amoeba. In other words, it is a higher animal. Man again, whose body is still further differentiated, or broken up into different correspondences, finds himself *en rapport* with his surroundings to a further extent. And therefore he is higher still, more living still. And this law, that the degree of Life varies with the degree of correspondence, holds to the minutest detail throughout the entire range of living things. Life becomes fuller and fuller, richer and richer, more and more sensitive and responsive to an ever-widening Environment as we rise in the chain of being.

Now it will speedily appear that a distinct relation exists, and must exist, between complexity and longevity. Death being brought about by the failure of an organism to adjust itself to some change in the Environment, it follows that those organisms which are able to adjust themselves most readily and successfully will live the longest. They will continue time after time to effect the appropriate adjustment, and their power of doing so will be exactly proportionate to their complexity – that is, to the amount of Environment they can control with their correspondences. There are, for example, in the Environment of every animal certain things which are directly or indirectly dangerous to Life. If its equipment of correspondences is not complete enough to enable it to avoid these dangers in all possible circumstances, it must sooner or later succumb. The organism then with the most perfect set of correspondences, that is, the highest and most complex organism, has an obvious advantage over less complex

forms. It can adjust itself more perfectly and frequently. But this is just the biological way of saying that it can live the longest. And hence the relation between complexity and longevity may be expressed thus – the most complex organisms are the longest lived.

To state and illustrate the proposition conversely may make the point still further clear. The less highly organized an animal is, the less will be its chance of remaining in lengthened correspondence with its Environment. At some time or other in its career circumstances are sure to occur to which the comparatively immobile organism finds itself structurally unable to respond. Thus a *Medusa* tossed ashore by a wave, finds itself so out of correspondence with its new surroundings that its life must pay the forfeit. Had it been able by internal change to adapt itself to external change – to correspond sufficiently with the new environment, as for example to crawl, as an eel would have done, back into that environment with which it had completer correspondence – its life might have been spared. But had this happened it would continue to live henceforth only so long as it could continue in correspondence with all the circumstances in which it might find itself. Even if, however, it became complex enough to resist the ordinary and direct dangers of its environment, it might still be out of correspondence with others. A naturalist for instance, might take advantage of its want of correspondence with particular sights and sounds to capture it for his cabinet, or the sudden dropping of a yacht's anchor or the

turn of a screw might cause its untimely death.

Again, in the case of a bird in virtue of its more complex organization, there is command over a much larger area of environment. It can take precautions such as the *Medusa* could not; it has increased facilities for securing food; its adjustments all round are more complex; and therefore it ought to be able to maintain its Life for a longer period. There is still a large area, however, over which it has no control. Its power of internal change is not complete enough to afford it perfect correspondence with all external changes, and its tenure of Life is to that extent insecure. Its correspondence, moreover, is limited even with regard to those external conditions with which it has been partially established. Thus a bird in ordinary circumstances has no difficulty in adapting itself to changes of temperature, but if these are varied beyond the point at which its capacity of adjustment begins to fail – for example, during an extreme winter – the organism being unable to meet the condition must perish. The human organism, on the other hand, can respond to this external condition, as well as to countless other vicissitudes under which lower forms would inevitably succumb. Man's adjustments are to the largest known area of Environment, and hence he ought to be able furthest to prolong his Life.

It becomes evident, then, that as we ascend in the scale of Life we rise also in the scale of longevity. The lowest organisms are, as a rule, shortlived, and the rate of mortality diminishes more or less regularly as we ascend in the animal scale. So

extraordinary indeed is the mortality among lowly-organized forms that in most cases a compensation is actually provided, nature endowing them with a marvellously increased fertility in order to guard against absolute extinction. Almost all lower forms are furnished not only with great reproductive powers, but with different methods of propagation, by which, in various circumstances, and in an incredibly short time, the species can be indefinitely multiplied. Ehrenberg found that by the repeated subdivisions of a single *Paramecium*, no fewer than 268,000,000 similar organisms might be produced in one month. This power steadily decreases as we rise higher in the scale, until forms are reached in which one, two, or at most three, come into being at a birth. It decreases, however because it is no longer needed. These forms have a much longer lease of Life. And it may be taken as a rule, although it has exceptions, that complexity in animal organisms is always associated with longevity.

It may be objected that these illustrations are taken merely from morbid conditions. But whether the Life be cut short by accident or by disease the principle is the same. All dissolution is brought about practically in the same way. A certain condition in the Environment fails to be met by a corresponding condition in the organism, and this is death. And conversely the more an organism in virtue of its complexity can adapt itself to all the parts of its Environment, the longer it will live. "It is manifest *a priori*," says Mr. Herbert Spencer, "that since changes in the physical state of the environment, as also those mechanical

actions and those variations of available food which occur in it, are liable to stop the processes going on in the organism; and since the adaptive changes in the organism have the effects of directly or indirectly counterbalancing these changes in the environment, it follows that the life of the organism will be short or long, low or high, according to the extent to which changes in the environment are met by corresponding changes in the organism. Allowing a margin for perturbations, the life will continue only while the correspondence continues; the completeness of the life will be proportionate to the completeness of the correspondence; and the life will be perfect only when the correspondence is perfect."¹

We are now all but in sight of our scientific definition of Eternal Life. The desideratum is an organism with a correspondence of a very exceptional kind. It must lie beyond the reach of those "mechanical actions" and those "variations of available food," which are "liable to stop the processes going on in the organism." Before we reach an Eternal Life we must pass beyond that point at which all ordinary correspondences inevitably cease. We must find an organism so high and complex, that at some point in its development it shall have added a correspondence which organic death is powerless to arrest. We must, in short, pass beyond that finite region where the correspondences depend on evanescent and material media, and enter a further region where the Environment

¹ "Principles of Biology," p. 82.

corresponded with is itself Eternal. Such an Environment exists. The Environment of the Spiritual world is outside the influence of these "mechanical actions," which sooner or later interrupt the processes going on in all finite organisms. If then we can find an organism which has established a correspondence with the spiritual world, that correspondence will possess the elements of eternity – provided only one other condition be fulfilled.

That condition is that the Environment be perfect. If it is not perfect, if it is not the highest, if it is endowed with the finite quality of change, there can be no guarantee that the Life of its correspondents will be eternal. Some change might occur in it which the correspondents had no adaptive changes to meet, and Life would cease. But grant a spiritual organism in perfect correspondence with a perfect spiritual Environment, and the conditions necessary to Eternal Life are satisfied.

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