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## Haste Not! Rest Not!

Without haste! without rest! Bind the motto to thy breast; Bear it with thee as a spell; Storm or sunshine, guard it well! Heed not flowers that round thee bloom, Bear it onward to the tomb!

Rest not! Life is sweeping by, Go and dare, before you die; Something mighty and sublime Leave behind to conquer time! Glorious 'tis to live for aye, When these forms have passed away. -Goethe.

## Evolution Before Darwin.

Professor Huxley, in an essay published in the "Life and Letters of Charles Darwin," says: "Within the ranks of the biologists at that time [1851-8], I met nobody except and capacity compelled respect, reason, imagination, and insight, ory probable. and who was, at the same time, a power to understand the significthorough-going evolutionist, was ance of groups of phenomena, and merely as a transmutation of topic. But even my friend's on the cap of the miner, and it enapt illustration could not drive me position occupied. justifiable."

knowledge.

of having a small amount of data Darwin's success.

upon which to base his inductions,

his great contribution to the world's Emerson (who was acquainted with edge, brilliant and fearless ex-Lamarck's writings) Robert Cham- ponder of scientific truth, and A thinker who reaches correct bers and many others, so believed, an admirable character, but this conclusions in regard to complex and their work and influence con- fact, with his tardy conversion to problems, under the disadvantage tributed to prepare the way for evolution, should not be construed

may thereby show a knowledge of cies" was published, Herbert Spen- which he regarded as "insufficient." the relations of things, an apprecia- cer brought forward some of the The facts of embryology, of homoltion of the evidential value of known strongest evidences in support of ogy, of rudimentary parts, etc., facts, and a comprehensiveness of evolution. His facts are incontest- known before the publication of the view, which denote a high order of able, and his arguments are as valid "Origin of Species," were to some intellect. In the higher sense, the today as they were then. The force minds as strong indications as they man of science is he who has not of his reasoning, which failed at the are now of the transmutation of only powers of observation, but time to convince men like Huxley, species; but to them had to be added ability to take the facts which are who required more evidence, is now more facts, and some method sugknown, and to arrange them so as acknowledged by them, showing gested by which species could have to explain their meaning, by dis- that Spencer's earlier acceptance of been changed, before men like Huxcovering the principles which un- evolution was owing to his true in- ley could declare in favor of evoluderlie them, as Newton explained terpretation of natural phenomena tion. This shows how important the cause of the fall of the apple, and greater freedom from the influ- and necessary was Darwin's work Dr. Grant, of University College, when he conceived that the same ence of traditional beliefs and au- to the wider acceptance and prowho had a word to say on Evo- force which brought the apple to thorities, while their inability to gress of evolutionary thought, but lution, and his advocacy was not the ground, also held the planets in accept the theory was due to their it does not in the least abate from calculated to advance the cause. their orbits. Mere observation and limitations, and not to their more the soundness of the general rea-Outside these ranks, the only person collection of facts would never lead correct judgment of what the evi- soning of those who, from the facts known to me whose knowledge to a great discovery; there must be dence should be to render the the- known arrived at the conclusion

Spencer conceived evolution, not Mr. Herbert Spencer, whose ac- to think beyond what is actually species, but as a universal process which saves us from a priori specuquaintance I made, I think, in known, as well as care and caution as presented in the system which lation and many unwarranted in-1853, and then entered into the in verifying what is conceived and he has since elaborately worked out ferences, may sometimes be applied bonds of friendship, which, I am held tentatively until it is fully es- in his voluminous works. In in a way to delay the acceptance of happy to think, has known no in- tablished by larger knowledge. "Principles of Psychology," publish- a truth seen by a great thinker long terruption. Many and prolonged Imagination, as some one has said, ed before Darwin's "Origin of before he can satisfy others that the were the battles we fought on this is to the scientist, what the lamp is Species" appeared, Spencer assumes objections are irrelevant or unthe truth of organic evolution, and sound, and that the evidence justidialectic skill and copiousness of ables him to see a little beyond the applies himself to the task of show- fies his conclusions. Many sciening how the mind has been de- tific men, and teachers of science in to the conception which prevailed there are always some who are in department of research. And for which before, though they had fluence of custom, authority and

to the discredit of those who ac-Years before the "Origin of Spe- cepted the doctrine upon evidence which Professor Huxley reached, at a later date.

REASON.

The "rigorous methods of science,"

from my agnostic position. I took The work of Darwin in laborious- veloped from low and simple to the colleges, were very confident my stand upon two grounds: firstly, ly collecting evidence of organic high and complex conditions. that Darwin's conclusions were not that up to that time, the evidence evolution, and in showing the nat- Whether we accept all his views or "justifiable" several years after in favor of transmutation was ural selection was an important not, as evolutionists, we must Huxley accepted, and, like a brave wholly insufficient; and, secondly, factor in the transmutation of spe- acknowledge the force of his argu- knight, defended them against scithat no suggestion respecting the cies, was a stupendous work which ments, based upon facts, for the entific and theological assailants. cause of the transmutation as- cannot be overestimated. The doctrine of evolution, in distinction sumed, was in any way adequate "Origin of Species" was an epochto explain the phenomena. Look- making book, which has revolution- when he began writing on this ing back at the state of knowledge ized zoology, and led to radical and subject. Professor Huxley, after at that time, I really do not see wide-spread modifications and re- his acceptance of evolution, repeated truths. It is doubtless well that that any other conclusion was constructions of thought in every many of these facts and arguments the majority, subject to the in-

It was Darwin's "Origin of the work he did, Darwin has re- convinced others, had failed to associations, change slowly; for Species," which converted Professor ceived his full meed of praise; has convince him. Had he possessed thereby is maintained that stability Huxley to the doctrine of evolu- been honored as no other man of that larger rage of vision, that which is the safeguard of society tion. It was natural that he should science in this age has for the work philosophic grasp, that synthetic and a condition of progress. But think the evidence which had been which his genius and labor accom- power and that wonderful faculty it is desirable that we recognize the adduced before he became ac- plished. But Darwin was not the of dealing with problems in the merit and service of those who are quainted with this work, "in- originator of the theory of evolu- algebra and geometry of thought the first to understand and assimisufficient," and, of course, a man tion, which itself has been evolved which distinguish Herbert Spencer late a new idea or to adopt and of his intellectual integrity, could through many centuries. Facts among thinkers of this country, work for a great principle, for they not give adhesion to any theory which were a matter of knowledge Professor Huxley would probably are the pioneers of these changes in until he was satisfied of its truth. long before the "Origin of Species" have accepted evolution prior to thought and method, which are But while Professor Huxley's appeared, had led many acute 1858, upon such evidence as was necessary to overcome the tendency statement, considered as an ex- thinkers to believe that species then accessible. I do not under- to conformity, unformity and couplanation why he and other men of came, not by special creation, but estimate Professor Huxley. 'He servation which steal like a mist over science did not accept evolution by gradual transmutation through was a man of scientific attainments a nation, resulting in "intellectual earlier is unobjectionable, it does natural agencies. Goethe, St. Hi- and literary accomplishments of a peace at the price of intellectual scanty justice to those who were laire, Lamarck, Erasmus Darwin, high order, a careful investigator death." evolutionists before Darwin made Herbert Spencer, Ralph Waldo in several departments of knowl-

Among observers and thinkers advance of others in accepting or in anticipating newly announced

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