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## The Spread of Evolutionary Thought.

To those especially who were early interested in evolution as a world-conception, there is much satisfaction in the knowledge that the doctrine is now generally accepted by independent thinkers. Two generations ago there were but few comparatively who had any belief or serious interest in the theory. The mass of people, with their secular teachers and theological guides, were satisfied with the old a priori hypothesis of Organic Life," in 1795, and later in special, miraculous creation. The the poem, "Temple of Nature," man who, here and there, dissented Erasmus Darwin advocated with from this doctrine, either affirmed great boldness and eloquence, but belief in the eternity of worlds, in- not, of course, with scientific precluding species, or in the absence cision, the natural origin and deof data, declined to express or to velopment of life. Geoffrey St. Hi form an opinion on the subject. laire and Lamarck, among natural-When the development theory, as it ists, later identified their names was then called-the word evolu- with the defense of this view. Emtion having been later substituted erson, whose intellectual hospitality for it by Herbert Spencer-was made him receptive to truth which mentioned, people thought of it as a fantastic notion early interested in evolution, and and treated it with ridicule. A in a lecture given on "The Relation serious defence of it was regarded of Man to the Globe," in 1833, he as an indication of an unbalanced said: mind and of low moral tastes and ideals.

by special creationists, for ap- has been prophesied in Nature for erable scientific attainments, deparently there was no likelihood a thousand, thousand ages before fended the natural origin of man among other places in that state that it would ever commend itself he appeared; that from times incal- by development in a public debate to reasonable minds. Later, as the culably remote there has been a at Chagrin Falls, O., with James tion to current theological beliefs. theory gained adherents, it excited progressive preparation for him, an A. Garfield, afterwards president of The opposition of the churches was religious opposition which was often effort to produce him; the meaner the United States, then a Campvery bitter; even the high character creatures containing the elements and eminent services of Charles of his structure and pointing at it Darwin were "no safeguard against from every side. . . . His limbs the attacks instinct with malignity are only a more exquisite organizaand spiced with shameless imperti- tion-say rather the finish-of the nence." For sometime after publication of Robert Chambers' ing in the mud; the brother of his "Vestiges of Creation," the theory hand is even now cleaving the Arcwas without standing among tic sea in the fin of the whale, and recognized teachers of science. innumerable ages since was pawing Professor Huxley, who did not the marsh in the flipper of the declare in favor of evolution till Saurian." after 1858, says: biologists at that time (1851-8) I evolution is the off-quoted poem met nobody except Dr. Grant of where Emerson says: the University College, who had a word to say for evolution, and his advocacy was not calculated to advance the cause. Outside these ranks, the only person known to me whose knowledge and capacity compelled respect and who was at the same time a thorough-going evolutionist, was Mr. Herbert Spencer, whose acquaintance I made, I think, in 1852, and then entered into the bonds of a friendship which, I am happy to think, has knowm no interruption." Notwithstanding the fact that the publication of the "Origin of Species," with its promulgation of the principle of Natural Selection, gave a wonderful impulse to evolutionary thought, the theory of tablished was the old conception of uity and growth, not miracle, but evolution had long had its supporters creation by miracle, and of the fix- law, has prevailed always and and teachers, though they were few ity of species, that the few who, im- everywhere, has come to be a strong

improving the theory scientifically, Nature and the reign of law, gave It now dominates in the world of which Darwin and subsequent expression to evolutionary thought, thought. writers supplied. In his "Metamor- seemed to produce but little im-Delphis," he says:

"Through myriad forms of being wending

To be a man in time thou'lt rise."

In "Zoonomia, or the Laws of generally was in advance of his time, was

the most sublime fact is that man For a long time it was not feared is no upstart in the creation, but a Spiritualist and a man of considrudimental forms that have been the already sweeping the sea and creep-

phosis of Plants," published in pression, though probably their in- who without much, if any, real 1790, Goethe derives all vegetable fluence was deeper and more far- thought on the subject, still assent forms in the world form one, and reaching than it at that time ap- to the old view. This element repall the different organs of the plant peared to be. Literature generally resents the extreme conservatism by development from one organ, ignored the theory. The secular which is the last to break away the leaf. In his lines, "Proteus press, when the subject came to its from traditional ideas and methods, notice, made fun of it, reflecting in and the last to surrender to the this respect the popular feeling. progressive thought and spirit of Since it was opposed to current the- the age. But the orthodox churches, ological beliefs, they who ventured in whose pulpits the old view has to advocate it were supposed to be been so stubbornly defended, have "unbelievers." The theory was as- not escaped the influence of evolusociated in the common mind with tion. Religious beliefs, and the atheism. The "Vestiges of Crea- way of looking at things, have been tion" was sold in New York and and are there, as elsewhere, under-Boston among "infidel" publica- going a marked change. Among tions like the "Age of Reason" and the orthodox clergy the word evo-"Volney's Ruins."

velopment theory a part of their and the books written by represenphilosophy. It was given promi- tatives of the old faith, show that nence, though treated discursively, evolution has modified their interin "Nature, Divine Revelations," pretation of natural facts as well as by Davis, the "Poughkeepsie Seer," of the scripture, and also their genand with larger knowledge of facts eral modes of thought and their atand with more definiteness of state- titude in relation to other religions ment in a work which appeared than their own. The revision of later, entitled "The Arcana of Na- creeds is but one of the more super-"The most surprising, I may say ture," by Hudson Tuttle. Some ficial indications of the work of time in the fifties William Denton, evolution in the churches.

Of course there are still many lution is indeed no longer an offen-The Spiritualists made the de- sive word. The sermons preached

In 1871 the writer gave a course of lectures in Eugene City, Ore., and other states on the Pacific

More familiar to the general "Within the ranks of the reader today in connection with

> "And striving to be man, the worm Mounts through all the spires of form."

Less definitely evolution is taught in the early poems of Tennyson, thus in "The Two Voices," which appeared in 1842:

"Or if through lower lives I came Though all experience past became Consolidate in mind and frame."

position of evolution; laying the that of special creation. Although versal evolution to the working out modifying and suiting it to their of which he has given his life.

they had their influence of course, evolutionists," the essential thought, but so general and thoroughly es- that not creative fiats, but contin-

bellite preacher.

In 1859 appeared the "epochmaking book," the "Origin of Species." Supported by Hooker, Hux- Monmouth College, was to oppose ley and other strong men of science, evolution in a joint debate. The it gave to evolutionary thought an impulse as remarkable as any in the history of the human mind, and from that time evolution has gained ground steadily and rapidly; it has degrading conception and in conrevolutionized zoology, compelled the revision of theological creeds, permeated literature, and so completely established itself among more people than they convinced. thinkers of every class that its influence is seen in all intellectual plish, was there brought about, as circles and in all departments of thought. There is no subject which is not now studied in the light of evolution. Its principles are freely State University had been estabapplied to religion as well as to language, government, art, etc. One rarely meets now a well-informed man who was not intellectually rigid before modern scientific thought had made any considerable progress among common Herbert Spencer, more than forty readers, in whose mind the concepyears ago, wrote in defense an ex- tion of evolution has not replaced foundations of that system of uni- held by many with qualifications a space of time are remarkable. religious beliefs, which are not en-All these writings were read and tirely acceptable to "thorough-going in numbers and lacked data for bued with the idea of the unity of conviction with thinkers generally.

aroused and there was preaching against evolution in that city for a long time. On returning there in 1873, arrangements were made by which President T. F. Campbell, of discussion occurred, was continued several evenings, and it attracted large audiences. President Campbell took the ground that evolution could not be true because it was a flict with the Word of God. The general feeling was strong against evolution and the arguments for it may at that time have puzzled But what no speaker could accomit has been in thousands of places, by a process of growth. On returning to the city in 1888, the third time, the writer found that the lished there, and that evolution was taught in that institution, the works of Professor LeConte being used as text books. There was no longer hostility to the conception among the leading minds. These facts serve to illustrate the rapidity with which the transition from the old to the new thought has been going on in all the more enlightened communities.

Such radical changes in so short They would not have been possible in any previous period owing to the absence of the mental conditions, products of evolution, which have been important factors in this transition. The conception of evolution itself has been slowly evolved, as well as the state of mind which has made its acceptance possible.

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