## GENERAL LITERATURE.

## [FOR TIEE CHRISTIAN MHROR.]

ORIGINAL ESSAY,
by a mbmaer of tife montifal christian MUTUAL-IMPROVEMR.NT SOCIETY.

THE EARTM.

## (CONCl.UDED.)

Proceeding on those grounds, we find our globe curiously and splendidly finished; admirably adapted for the purpose intended; provided with everything suited for a temporary habitation, and great wisdom and benevolence pervaling its whole constru:tion ; and hence we conclude, that some one must have created it, and that its Creator is benevolent and wise.

1st. We fund it endowed with an atmosphere, capable of supporting the animal and vegetable life that exists upon it. We find the equilibrium of this atmiosphere preserved by a curious mecharism. We have discovered that, without it, we could not exist for an hour; that, without its pressure, the elastie matter contained within our bodics would tear our bodies into a thousand fraginents; that its component parts enter into the composition of all animal and vegetable matter; that, without it, we would be exposed to the unmodified power of the sun's rays, which would mateisally injure our eyes-nay, render them almost entirely useless; that, withont it, we would be pluinged from the brightes sunsline into worse than Tartarian darkness and be denied the pleasures of twilight ; that, without it, we would want the fertilizing agency of rain, dew, and snow-which would cause the total loss of all our rivere, and consequently destroy vegetable, and eventual Iy animal, life; that, without it, we would lose the pleasures of conversation and music.

2d. The ground, on which we tread, and whịch appears so firm aud enduring, is a thin crust, (comparatively about the thickness of an egg-shell,) covering an immense duid mass. We have diecovered that it has unllergone convulsions and ablutions; that mountain, now towering upwards towards the sky, were formerly at the bottom of the ocean; that these convulsions and disruptions have bestowed on us the pleasing variations of mountains and valley, hill and dale, and have brought up to the surface of the earth, and placed in our posesssion, minerals and powers, which tend materially to elevate mankind physically above the brutes, and to impart to eivilized man a transcendant superiority over hii $;$ uncivilized brother. By such convulsions we obtain the iron, which is now indispensabile to our race, and the coal, by which we are enabled to plough the stormy deep indepowent of the aid of the wind; by which m ans the sea is made a great highway; the d liferent nations of the earli, are being formed imin one great family; and the Bible and its; incalculable advan+agos diflused over all parts of the earth.
The vegetable soil, which covers so large a portion of the suriace of our globe, is chiefly formed by the decompos:tion or rocks, and retains the moisture which nourishes the growth of those plants and trees, which not only fur nish us with pleasure in surve ying their varied tintsand inhaling their delighitiul odours, but which also supply us with the means of enntinuing our very existence as animated loeings. What a blank would the earth be, if we saw nothing but a dreary waste extending as far as the eye could reach; if no pleasant fields met our gaze, and if no beautiful foliage delighted our vizion; if no fluwers with variegated tints regaled our senves. But, happily, the case is olherwise, beçause a Creator
|" hath made the earth by his power, "rand " hath established the world by his wisdom";" so that every plant may be said to exclaim, Behold the wizdom of Him who bath produced me! See! how benevolently and wisely He hath provided for my existence and my wants. Examine me narrowly, 0 man! Look around you. Investigate the natural mechanism and wonders lying around you, and you cannot but find innumerable proofs that "the heavens declare the glory of God, and the firmament sheweth his handiwork."
How ingenious is the mechanism by which plants obtain their food! How wonderfully are our bodies made! What great design is exhibited in every muscle! What mechan. ism in every bone! How strongly our brain is enclosed in its bony nase, and how skilfully that case is supported on the neck, so as to give it the power of turning round and bending! What firmness and elasticity are united in our spine! How infinite is that wisdom which can modify the hands and feet of man into nembers, which are peculiarly adapted in other animals to their different constitution and mode of living; which converts the hands of man into the hoofs of the horse, the wings of the cagle, the firs of the whale, and the claws of the liger!
The Ocean is another leaf from Nature's book, and which exhibits distinctly and clearIg that there is One "who layeth the beams of his chambers in the waters; who maketh the clonds his chariot; who walketh upon the wings of the wind; ; and who covereth the earth " with the deep as with a garment." The ocean is agitated, and thus preserved in a pure and healthy state, by means of tides; and its usefulness is great. It serves to connect nation with nation, and contirent with continent. It is the ready-made commercial highway of the world. Its waters teem with animals, which afford healthy and plenteous food to man. It assists in equualizing the temperature of the land which is surrounded by it or which is situated on its shores; and some of its waters are evaporated by the powerful rays of the sun, ascend in the form of clouds, and form the moisture which afterwards descends to irrigate the soil.
Water is indispensable to man; without it he could not exist many hours. It forms a part of all his meals; it is of great use in furnishing him with clothing, and preserving the cleanliness of his person, and it attends him from his morning ablutions until the completion of his last ineal; and it is even heing evaporated from his body during the period of his nocturnal repose.
Fishes are wonderfully and curinusly formed ; and tiseir structure is so modified as 10 alapt their form to, and eliable them to live in, the element assigned them. The feet of animals are in their case converted into powerful fins, to enable them to move rapidly through the water; and they are also provided with a powerful finny tail, to enable them to direct their course, and scull themselves with speed; and with an air-bladder, to give them the power of elevating or depressing themeelves in the water. The refracting power of their eyes is less than that of animals. lleing surrounded with water, they are furnistued with gills to enable them to breathe in that element; and they have no glande to lubricate their fond, and their teeth are more adapted to seize than to niasticate it. Their intestine is short and simple, as they live almost entirely on animal substances; and their organ of hearing is confined within the akill, (with the exception of one apecies,) and that sense is consequently not so keen as that of animals. Here we behold a modification
of parta, and an adaptation of structure, to suit an alteration of circumstances, which could not have been produced by accidental means, but which everywhere dieplays the presence and working of a Designer "supreme in visdom as in power."
Was it chance that amalgamated the two deadly gases which compose the atmosphere in such exact proportions as to render them the supporters instead of the destroyers of life ? Was it mere chance that so wisely and admirably formed all animals to live in different climates and elements; or was it not rather a beneficent Creator who clothed one animal with wool, and another with fur, to resist the biting blasta of winter; who furnished birds with a prow-like breast, powerful wings, and a tail for a rudder, that they might soar aloft among the clouds; who. illed their hollow bones with air ; and, by several ingenious contrivances, enabled them to float through the azure sky?
These are not a thousandth part of the examples of wisdom, beneficence, and foresight displayed above, below, and around us. Ascend into the ærial regions, and you behold these attributes exhibited in the creations of, and consequently forming sharacteristics which belong to, the Creator. Descend into the bowels of the earth, and you will find these atributes written on the rocks and wrecks of bygone ages lying around you.Look on every side-examine deepls-investigate closely-and you will see your own ignorance, and be led to "gaze, to wonder, and adore."
That the earth is the temporary abode of man, is evident from the numerous and rapid clanges which are continually occuring in every part of it. Scarcely has spring been ushered in with the songs of the feathered tribes, and assumed its green covering, when summer appears, and quickly vanishes away, to make way for autumn, distinguifhed by its sear and yellow features; and this is almost immediately replaced by dreary winter wilh its snow-clad thills and valleys. Scarcely has man reached manhood when his strength begins to fail, and he descends the hill of life, and perishes like a tale that it told. Generation succeeds generation-family succeeds family-ond kingdom nucceeds kingdon- with marked rapiditr. Nothing but change is to be seen in all quarters. Ought not we also, therefore, be prepared for such changes when we see them occuring so frequently? Can we expect that our condition will remain unaltered, when we behold all men and things yielding to time?
Happily, Science "no longer etruta about on stilts," but submissively acknowledges the sway of that religion which exalts man to such a bigh degree of moral and intellectual excellence. By such submission, science has achieved its noblest triumphsthe ocean has been puldued under man's do-minion-the earth hath been ransacked, and the remains of wonderful animals and plante, and additional proofs of the vast and comprehensice wisdom and beneficence of the Almighty, have bren brought to light-the mechauism of the heavens has Eeen laid hare -nillions of new worlds have been diecov-ered-and a part of the riches of Divine power has thus been unfolded. The animal and vegetable kingloms have been investigated, and there also have beell traced the marks of Divine presence and superintend-ence-and even the depths of the ocean have not escaped the obscrvation of the Christian professor of science; for even there it has been discovered that fishes have undergone variations of structure, to adapt then to their

- Rer. Mr. Coones.

