# ORCH OF



TRUTH BEARS THE TOREST IN THE SEARCH FOR TRUTH. - LUCTERUS.

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## Brotherhood.

BROTHER man, fold to thy heart thy brother! Where pity dwells, a heavenly peace

is there; To worship rightly is to love each other, Each smile a hymn, each kindly deed a prayer.

Follow with reverent steps each great

Of all whose holy work was doing good: So shall the wide earth seem a sacred temple,

Each loving life a psalm of gratitude. Then shall all shackles fall; the stormy

clangor Of wild war-music o'er the world shall cease;

Love shall tread on the baleful fire of And in its ashes plant the tree of peace.

-[Whittier.

### The Need to Believe.

are all of us grouped into creeds or schools allowed in such matters as God, the soul, immortality, and all the transcendental questions, to express our preferences and our requirements as we should never dare express them in physics or chemistry, or the most rudimentary of house wife's science. This difference shows, as apologists have often remarked, that belief in things spiritual conforms to different rules from belief in things temporal. And therein I agree completely. But if religious thought can thus dispense with the kind of it is not a means to an end, but an it has taught us this indubitable thing nor reduced to nothing, in ary systems; and the earth with its only to my mind, as an expression which pass daily before our eyes, their appearance they can be traced of existence, fell from its fancied of NEED, of the cravings of this part the formation and destruction of back again to their sources, that is exaltation to a mere atom moving of our constitution. And in so far organic and inorganic forms and it can be shewn out of what other in immeasurable space. "All our as the needs of different men differ, figures, do not consist of the forma- forces or energies a given amount of experiments yield us not the slightand the needs of different historical tion of matter previously non- force has been obtained directly or est trace of a limit; each increased periods and racial types differ still existent, nor of the destruction of through transmutations. This power of the telescope only opens more, it is not surprising that while matter then present, as was gener- transmutation does not proceed ar- to our gaze new realms of stars and Science and the practical operation ally thought in earlier times, but bitrarily, but according to definite nebulæ, which, if not consisting of thereof, have tended to that ever that this change consists in nothing equivalents or weight-numbers, so galaxies of stars, are self-illumingreater unity which we associate save in a continual and unbroken that the minutest amount of force ing matter." (Grove) "With each with the notion of objective truth, rotation of the same substance, of can no more be lost than the the creation of the religious instinct, which the m: ss and the quality re- minutest amount of matter in the the expressions of the WILL not to main unalterable and identical transformation of matter. KNOW nor to SUCCEED but to believe, for all ages. have been as various as the product of the æsthetic faculty.

of phenomena, of humanly per- might possibly reverse the adject- finite mind by the conceptions of ceived and interpreted appearances, ives. The body in its individual time and space, conceptions from instruments." (G. J. Klein.) "From resembling the creatures who wor- it is not so in its constituent parti- Whether we enquire about or inship and burn, turn about, the cles. Not in death only but throug- vestigate the extension of matter in image they have made of him, if out life it changes unceasingly, as the minutest or the greatest, we

fiable to suppose that, having cre- sense it is immortal, since not the whether we call to our aid experigarden?

in terms of our senses and our ormust the objective First Cause remain for ever hopelessly holding binations. from our knowledge, and the god whatever he be, whom we worship, permanence of matter is a scientific among the Infusoria, which meawe hope for or deny must be an idol of our own making, an idol er to be denied. It is interesting to an inch, has a gullet, toothed jaws, the more potent that he is part of ourselves; but an idol in judging of and thinkers also possessed a knowwhose qualities and possibilities we ledge of this important truth, alare only judging our own thoughts, dreams and desires; and the objective Real Cause might, had he qualities or form, rebuke us as the Spirit of the Earth did Faust:

"Dei gleichst dem Geist den du beguifst, nicht mir!"

-[Vernon Lee in Fortnightly Review.

# Immortality and Infinity of Matter and Force.

BY PROF. LUDWIG BUCHNER, M. D.

ATTER as such is indestructible, it cannot be annihilcertainty required for even the sim- the universe can vanish from, and must it be accepted as an absolute- white mists seen by the naked eye plest practical affairs, this must none can enter it. It is the great- ly certain experience that there is in the vault of heaven were resolved surely be only because no practical est service rendered to us by chem- not a single instance in which a by the telescope into myriads of decisions are really based upon it; istry that for the last hundred years force has been brought out of no- stars, of worlds, of suns, of planetend, even like art itself. If, there- fact, that the unceasing changes other words born nor annihilated. inhabitants, so fondly and proudly fore, WILL can enter into belief, it is and transformations of phenomena, In all cases in which forces make deemed the very crown and centre

the cessation of those peculiar com- the very basis of existence.

fact firmly established and no longobserve that former philosophers stomach, intestine, glands, ovaries, though in an incomplete form and of the most various and most curirather as a presentiment than as a scientifically known and established screws, stars, chesslike figures, horns, certainty.

Equally uncreatable, equally indelible, equally imperishable, equal- developed independent living creabound up with it. United in infinite power of movement. amount to the infinite mass of Matter, in most intimate union there- world of the minute, so does the with, and like matter, it runs in an telescope direct us in the world of unresting never-ending circle and the vast. Here also astronomers emerges from each mode or union audaciously dreamed of penetrating exactly the same in amount as to the very limits of the universe, when it entered in. As it is an in- but the more they perfected their dubitable fact that Matter can be instruments, the more immeasurneither newly created nor annihil- ably did the worlds expand before ated; no grain of dust in ated, but only changed in form, so their astonished gaze. The light

The phrases "mortal body" and eternal, so it is no less without be-"immortal spirit," which have been ginning or end in space; in its real powerful telescopes we see so many Should there really exist, im- repeated ad nauseam, are misno- existence it withdraws itself from manent and hidden in this world mers altogether. Exact thought the limitations imposed on our an Eus Realissi mum in any way form or shape is indeed mortal, but which it cannot free itself in thought. there be such an one, is it not justi- we have seen; but in the wider nowhere find an end or a final form, Matter.

ated such various moral soil and smallest particle of it can be anni- ment or reflexion. When the disclimates and germs, the unknown hilated. On the other hand we see covery of the microscope or the First Cause might love to watch the that what we call spirit, soul, con- juxtaposition of magnifying glasses, different growths of soul and cher- sciousness, disappears with the opened up worlds unknown before, ish the diversity of his spiritual cessation of the individual combin- and revealed to the gaze of the ination of matter; and it must ap- vestigator a fineness and minute-If all philosophical progress pear to the unprejudiced mind that ness of organic life and organic unites in thinking, if it is true that this action having been brought form-elements undreamed of until all that we know we can know only about by peculiar and very compli- then, man cherished the audacious cated unions, must come to an end hope of coming on the track of the ganic intellectual necessities, then with its cause, that is to say, with final organic element, perhaps on

> The remarkable wheel-animal-Today the indestructibility or cule, formerly mistakenly classed sures from 1-120th to 1-240th of eyes, blood, vessels and nerves. A drop of sea-water contains a crowd ous forms, as balls, crosses, baskets, caps, helmets, etc., and each of these forms represents a perfectly ly immortal as Matter is the Force ture, endued with sensation and

As the microscope guides us in the sharpening of our tools which bear our gaze into the waves of light of the furthest starry realms, new waves of sun break forth from the As matter is endless in time or limitless ocean of the stars." (W. Meyer.) "Even with the most faintly-shining stars that we are unable to doubt that on the further side of these there are yet others which will become visible by larger all these experiments we conclude that the depth of celestial space cannot be sounded, and that we shall never succeed in reaching its bounds." (Secchi.) - [Force and