For the Torch of Reason.

False Pretences.

BY CHARLES KENT TENNEY.

Not many years ago, by comparison with the years through which yield its Eastern commerce," says when the goal is reached, after it has passed, the earth, according Prof. Draper, "it was thought nec- these long, weary years of ceaseless chain of reasoning with the first, to true Christian doctrine, was flat, and around it revolved the sun and stars, and over all was a huge were well acquainted with the all the battlements have been cover, the sky lights of which were globular form of the earth. Why taken, and the battlefields strewn and civilization.

which the Christian church has so strenuously resisted as the rotundupon its axis and around the sun; sent civilization.

existed a very respectable civilizahad almost ceased to exist in socalled Christian countries. during this time, and left our ancestors in abject ignorance, wretchpresent civilization.

such use regulated by the so-called aided Columbus. surely never be paid.

sometimes opened to let the rain not reach the East Indies from the with unnumbered dead, after all fall through. To question this west? By the church this sugges-Christian arrangement of nature tion was received with little favor. thought and Science, we are serenewas death by most cruel torture. It gave no encouragement, because ly told that modern civilization is Yet we are informed that to Christ- such schemes were unsuited to its ianity alone is due modern learning former arguments. It was disliked colossal cheek "surely passeth unbecause of its irreligious nature. derstanding." There is no known scientific fact This globular form had been condemned by the holy fathers. By the Patristic geography the earth is ity of the earth, and that it revolves a flat surface, bounded by the waters of the seas, on the yielding no tortures too cruel or horrible for surface of which rests the crystallthe exponents of such theories. The line dome of the skies. These docthumb screw, the rack, and the fire trines were supported by passages were its opposing arguments. To from the holy scriptures. This doubt was cruel death. Such were geography had been the authority frequently asserted that Science the methods of those who are said of the church for more than eight to have been the fathers of our pre- hundred years, and of course settled the matter. Something must, how-Before Christianity there had ever, be done for Genoa, and Coltion. By the dark methods of the earth was globular in form. Christianity this early civilization Receiving no encouragement or To the support of Ferdinand and Isamaintain its power, and to pre- bella, who, seeing great possibili- ciated and classed with scientific vent men from thinking in any line ties for their kingdom from such a facts, their truth seems assured. fourteen hundred years made the the church would not renounce its eliminate this source of error. acquiring of knowledge and educa- theory of the flatness of the earth, the eyes of the lowest savage. By and returned to the port from knowledge is classified knowledge, gled all former traces of civilization let go. The influences of the restricted to that part of human church in the discoveries of Columany Christian will tell us that the ians. The discovery of America, sense, Science includes only what is it was the "will of God". Christian church is the mother of aided by the remains of civilization known. True, Science has its fic-All scientific investigation in its by the Mohammedan Arabs of put forth as facts, they are only primary fact, and as it cannot be beginning, in astronomy, geology Spain, was the beginning of our the means used to discover facts, or established by testimony nor by and all other sciences requiring present civilization. America was the unfinished product of the work- argument, it is not a secondary such investigation, has been uni- discovered by the demands of comformly strenuously resisted by this merce at Genoa; not by the church, altered, mended or rejected alto- reasoning, because the conclusion would be civilizer. Alchemy, the but against its most strenuous gether. mother of chemistry, was permitted opposition. The Moorish civilizaonly because the church thought it tion of Spain, from whom we desaw the possibility of making arti- rive many of our most useful inficial gold. The early physician, ventions, and some of our most imto whom modern civilization owes portant knowledge of the past, was so much, was frowned upon, and not preserved by the church, but the practice of his profession for- that most enlightened people were clusions cannot be more certain circle". This explains the fact that bidden. In case of sickness, only actually exterminated by it, through than these basic experiences and all arguments for the existence of a the use of shrines, or saints' bones, the instrumentality of Ferdinand were permitted, and the price for and Isabella, who had so materially foundation rests all truth; and other the further fact that every religion

civilizer. The debt of gratitude Since the days of the Christian scientist must begin with simple god or gods. due from modern physicians and church, has there ever been any ad- truisms, which even the uneducat- A "Religion of Science" and a surgeons to this great civilizer can vance in human liberty, has there ed can comprehend; and increase science of religion are equally imever been any advance in human his knowledge by extending his possible except as products of the There were, however, other forces knowledge, has there ever been any experience, observing phenomena, imagination. All material things at work which the church, with its advance in Science, or has there and reasoning from the known to - entities - with their properties ever watchful eye, had not reckoned ever been any advance in the ways the unknown. Of course, in doing and relations may be included in upon. Through the misfortunes of which make men's burdens lighter, this he borrows and uses the know- science, and nothing more. Every

Genoa, which had long held the ment to the great mass of strug- made a part of Science. commercial supremacy of the Med-gling and toiling humanity, which iterranean, was rapidly being out- has not been, in its inception, and ided into primary and secondary stripped by its rival Venice. "With for long years after, bitterly fought facts, according to the means by ruin before it, and unwilling to and resisted by the churches? Yet, which they are acquired, the second essary to look elsewhere for trade." strife, after these many centuries of There were many of its citizens who darkness, ignorance and woe, after facts and the chain of reasoning for this has been accomplished by Freeentirely due to Christianity. Such

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What Is Science?

BY CHARLES CLARK MILLARD.

In controversial writings, it is teaches whatever it is that the writer wishes his readers to believe, and thus the most unscientific speculations and the wildest imaginumbus took up the idea. He knew ings are supposed, by many uncritical readers, to be vouched for by that vague, undefined thing called false; and in such a case nothing is substantial aid at home, he sought Science; and when such speculations and imaginings become asso-

knowledge which is arranged sysbus and Magellan, like many other tematically and published in books.

war, and perhaps political intrigue, and which bring peace and content- ledge others have acquired and

The facts of Science may be divclass always being connected by a and depending upon the primary its certainty. At each link of the chain an error in logic is possible; and therefore the longer the chain the less certain is the ultimate conclusion, and vice versa. If the reasoning is logical and it leads back step by step to primary facts, then the ultimate conclusion is true and a part of Science.

But the reasoning may proceed from assumed fact. Many assumptions have been put forward as primary or secondary facts of science, but comparatively few have been able to hold a place within her sacred domain. Her pathway down through the ages is strewn with rejected and ejected assumptions which were not able to stand the test of truth. If a proposition is assumed as true and an argnment based thereon, and there is no fault in the logic, the conclusion arrived at is true if the assumption is a fact, and false if the assumption is gained by the argument.

Christian historians deal largely in this kind of argument. They assume that an intelligent being govother than promulgated by its cor- route, gave him their support, and But a clear understanding of what erns the world for the best interrupt and venal head, it, for nearly he made the voyage. Even then is and what is not Science will ests of mankind; and using this as a major premise, it is easy to prove Science is "classified knowledge." that in every act of the historic tion a crime, with punishment and it was not until Magellan had But since we only know things by drama, every crisis in human which would have brought tears to actually circumnavigated the earth, classifying them, it follows that all affairs, and in every great contest between nations, right has triumphits remorseless persecutions it stran- which he sailed, that it reluctantly although the term is commonly ed, and that no other result would have been of so much benefit to the human race. And as all minor acts helped to bring about the final edness and poverty. Yet almost things, are only apparent to Christ- But, using the word in its widest result, all was for the best because

> The fatal defect in this argument so faithfully preserved and guarded tions and theories, but these are not is, that the major premise is not a er in Science, which may yet be fact. It cannot be established by covers all the experiences of man-Science is based upon the experi- kind, and these same experiences ences common to all normally con- must be used to prove the major stituted human beings, and the pro- premise; the conclusion depends on positions—axioms—which are self- the premise, the premise must be evident to human reason; and the supported by the conclusion and highest, or most far-reaching con- there is no escape from the "vicious axioms. On this humble and sure god are unsatisfactory; and also foundation can no man lay. Every depends upon faith or belief in a