system were formed by the conden- FROM it. Are they going with new into "some degree" in which it or left behind them their moons.

societies and civilization must die, zine for July, 1899.] too. The fact is, that they have (with scarcely an exception) kept if you must have hypotheses, there growing from, out of and upon each other, pyramid-like, up to the present time, with its Family of Nations. The DIE idea is absurd, except when used to describe the Cosmic Theories," by D. K. Tentempt to biologize the universe so as to "introduce death" into it is utterly premature all of these nebsimply absurd.

is "a going on," a process, in every a speculation; it cannot be estabsense of the word, and at a most lished by observation, nor can it be terrible rate. Its "go" is really the proved by calculation. It is merely correlation of impinging matter a conjecture, more or less plausible, and forces which keeps it in as- but perhaps in some degree neces tonishing ebulition, and drives it sarily true, if our present laws of and its system through space at heat, as we understand them, adthe rate of ten miles a second, i. e., mit of the extreme application 300 millions of miles a a year here required, and if the present towards the star Lyra. The sun order of things has reigned for sufhas not a second of time to stop ficient time without the intervenand get cool, and it never will tion of any influence at present unhave until those impelling forces known to us." are shut off; and who is to do that, or tell how it is to vate the imagination, but it must be done?

What reason have we to suppose called." P. 509. that the supply of coarse matter law of gravitation? The evidence healthfully dropping out of the all broken up and not continuous. is clear that the sun is doing a school books, where it had done This evidently wont work—except large, safe and ATTRACTIVE bus- unspeakable injury as a "Scientific to make a sublime chaos. iness. No sooner do the comets Theory." Thus, although Ball inget up to it, than it sends their dexes it as a "Theory," he treats it with a gigantic whirling motion,' tails off into infinite space. Notice in his book as a "Conjecture," now how stiff they always stand out dying out or being metamorphosed

sation of a mighty hot nebula light, heat, etc., to form new mat- might seem "necessarily true." under a circular motion. which ter-atoms out of the infinite ether? Now, urges our friend, what began give us no more "run down" or in gas must end in gas, the solar cosmic-suicide articles about the system not excepted. But does sun, but might find out what that this follow? Things may grow noble young star is up to. Under stronger as they grow older, and the law of correlation and "supply the sun cannot, is a biological FOREVER, or until it catches the which does not apply at all to the fly, being pulled, pushed or floated, does not even apply to Humanity gradually appropriate by "benevoor its great Peoples; even Prof. lent assimilation," and thus com-Draper wrecked his "Intellectual mence a more wholesale and still Development of Europe" with the grander "forever." [See Prof. Newnotion that because men die, great comb's article in McClure's Maga-

As John Stuart Mill pointed out, is no sense in making them pessimistic, especially against the facts. Prof. Serviss, or some other source. We have only to read "The Earth editor of the Freethought Magazine, Chicago, for it), to see how ular speculations are, and how Suppose it proved that our sun weak they are as against the "Metedid condense from a nebula; it may oric" or Aggregative Hypotheses of still go on forever. What had a the great astronomer, Lockyer, and pends upon the profit and loss of these coelestial fancies, the Astronthe business. Now, under the law omer Royal, Ball, uses the word of correlation, and the corstant "speculations!" See his "Story of falling of matter into the sun, it is the Heavens," pp. 506, etc., where plainly not a live coal cooling off he says of this Nebular Hypotheand dying out in empty space. It sis: "Nor can it be ever more than

"Such a speculation may captibe carefully distinguished from the

[its coal] To the sun will ever give to take; and certainly so, after

threw off the cooled outer circles as If our friend would only get seated stein with a sensation article of the planets, and they revolving threw on one of those tails, or even get New York Sunday Journal, which judge accurately a diamond in all its his attention seated there, he would seems to be a digest of a lecture of Astronomy, and seeks to galvanize this scientific "conjecture" into a scientific "theory" again. This is that indefinitely. The notion that and demand," we bet on the sun tions made by the new telescope at done on the strength of observaanalogy from plants and animals star Lyra, which is also on the those observations really disclose, universe or to solar systems. It and which it may overtake and and other subjects, remains to be known. We would in nowise try to anticipate, much less disparage, them. We would respectfully request Mr. D. K. Tenney to give the truth about them, and their bearings, in an article in the Freethought Magazine at his early convenience, and we shall wait until we get the actual truth from him or

We are quite sure that the sober Not Created, the Fallacy of All truth does not appear in that sinceasing of the life-process of some ney (send 15 cents to H. L. Green, Sunday Journal, which has been going the rounds of the papers, and which our friend has copied in his letter, thus giving it an importance it in nowise deserved. It does not disclose any fact clearly, nor show the intellectual sobriety which beginning need not have an end, if his elucidator, Proctor, in the ninth Its hue and cry and power of assercan draw a scientific conclusion. the supply equals the loss. It de- chapter of his "Other Worlds." As to tion are immense. But just as at the Bar, grandiloquence generally means, "no case." And here it is worse, for if the facts indicated in this article are true, the Nebular Hypothesis is an impossibility, The stars are suns, and the rotation of nebulæ with or about them is the necessary condition of this hypothesis in order to account for the formation of planets and solar systems. But here we have "vast spirals, intricate patterns of nebulous traceries, as delicate in structure as the finest lacework BEADED with stars." Then the "rings of light are INTERLINKED;" "orbs of pale fire whose gigantic whirling motion and whose gradual compaction into new suns under the pressure of gravitation ARE ALL BUT visible."

How can "vast spirals" and The universe has endless resources. truths of Astronomy, properly so "nebulous traceries," "bearded with stars" and "interlinked," that is, This seems the healthy position chained together, "rings of light" REVOLVE so as to work out the out, or that the consequent corre- reading Mr. Tenney's showing that Nebular Hypothesis? The beads, late radiation of light, heat, elec- this speculation gets not a particle that is, the stars, are suns already tricity, nebula, etc., FROM the sun of encouragement from the vast formed in a vast mass of continuwill ever cease, or that its two mo- number of nebulæ revealed by tele- ous nebulous "tracery." This potions, or those of its planets, will scopes-no such "going on" being sition utterly negatives the idea of ever be arrested, or even vary so as really detected, in any of its phases, their rotation as a whole. But if not to soon balance again, as La in any part of the known universe. each sun-star rotates with its part Place proved they would under the This speculation was, therefore, of the nebula, the nebula would be

Next we have, "orbs of paie fire,

Continued on 5th page.

DIAMONDS

various qualities. As genius for music or painting must be inborn to produce Prof. Serviss, a popular lecturer on the great artist, so the faculty to correctly determine a diamond in all its diversified detail and characteristics can never be acquired, unless by the rare few who are gifted in this direction. A dealer may be a good jeweler, a successful merchant and an honest man, and yet deceive you on a diamond, simply because he himself is deceived. I have been in the business forty years. I could no more be deceived on a diamond than the cashier of the Bank of England could be on a bank note. When buying diamonds I use no glasses, ask no questions except the price; my acute vision instantly detects the slightest difference in color every flaw and imperfection. Your interests will be protected if you buy of me. If you want a Ring, Pin, Stud, etc., for \$10, \$20, \$50, \$100 or up, send to me. I will send you the goods prepaid. Keep them a week or two, and if you are not satisfied that I undersell all competitors, return and get your money.

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