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HIGHER SCIENCE



of the
MOTION & MATTER
*A MAGAZINE DEVOTED TO
SCIENCE, TRUTH, INVESTIGATION
& MATTERS OF GENERAL INTEREST*

MAY, 1903

FRANKLIN H. HEALD
EDITOR AND PROPRIETOR
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HIGHER SCIENCE

OF THE MOTION OF MATTER

Vol. III.

LOS ANGELES, CAL.

No. 5

THE HEAT OF THE SUN.

A conservative estimate (174*) of the heat of the sun's surface is, that it is 146 times hotter than the Drummond light (Elements of Chemistry, note 326). This estimate, and all other estimates made by chemists, physicists and astronomers are based upon the heat of sunlight falling upon a given surface, multiplied by our distance from the sun, according to the law of the diffusion or scattering of light. In this estimate it seems possible and very probable that there are large chances for error. We must in the first place, measure the heat of the sunlight falling upon a surface, inside of the envelope of atmosphere which surrounds the earth, because we cannot go outside of it to obtain a measurement, and when we consider this fact, that the motion which transmits heat from the sun to the earth (HIGHER SCIENCE, Vol. III. No. 4, p. 94), must create more heat at the surface of the earth where the weight of the atmosphere is 14 lbs. on each square inch, because it requires more power to vibrate it, than at higher altitudes (177) where it requires less power, we find our law working in exactly the opposite direction. For instance, if we measure the heat falling upon a certain surface at sea level, we get much more heat on the same surface than on a mountain top five miles nearer the sun. It would be ridiculous then for us to estimate the heat of the sun upon such a basis, as it would bring it down to billions of degrees below zero. When we understand the motion then, which delivers heat from the sun at the earth, we see at once

* Numbers in parentheses refer to notes in "The Procession of Planets."

that the amount of heat depends upon the density of the expanded matter or gas at the point where it is measured, or in other words, the amount of power required to vibrate or jar it [see "Graduated Atmospheres"]. Judging by the difference between the heat of the sun at sea level and the heat at five miles above sea level, we must conclude that entirely outside of the earth's atmosphere, it must be very cold, as compared with the earth's atmosphere. The gas of expanded matter is light and easily vibrated or jarred by the continual expanding of matter into gas at the sun and therefore cannot create as much friction or heat, as in the atmosphere. As we go farther and farther from the sun, the gas of expanded matter must be continually lighter or more expanded and its vibration produce still less heat, because requiring less power to vibrate it. Under these conditions then, is it possible for us to accurately estimate the real heat of the sun, at the present time? Perhaps if we could measure its heat in a partial vacuum where the weight would be the same as the weight or pressure of expanded matter outside of the atmosphere, we could arrive at a close estimate, but what the weight of the expanded gas amounts to is an unsolved question. All we know of it as yet, is the speed of its upward motion from the sun as estimated by Maxwell years ago and as now measured by Prof. Lebedew.

THE LATEST DICTUM OF SCIENCE.

While ordinary mortals are worrying with such questions as the tariff, coinage and national expansion, the philosophers continue to hammer away at the old conundrum: "What is life?"

The great riddle was invested with fresh interest last year by the declaration of Professor Jacques Loeb of the Chicago University, now of the California State University, that "life is fermentation." Prof. Loeb gave seeming support to his theory by a practical test, in which he hatched the unfermented eggs of sea urchins through a purely chemical process.

The latest speculations along this line are credited to Franklin H. Heald, who publishes a magazine called **HIGHER SCIENCE**, published at Los Angeles, Cal.

Mr. Heald's ideas are collectively denominated by him as "the processional theory." He says:

"Consciousness or mind is a force. It is caused by the expanding or contracting of the protoplasm of the brain or nervous system, due to heat and cold. While it is a fact that mind or consciousness controls matter, and that we may, by the proper use of our thought or consciousness, direct and control our actions, yet at the same time we are compelled to admit that matter also controls mind and that consciousness is a force or motion generated by what we eat or drink."

To thousands of persons these speculations will appear as senseless jargon just as the heliocentric theory of the solar system did when proclaimed by Copernicus. But the hostile attitude toward scientific investigation is no longer popular. Science has "made good" in most of its undertakings. Therefore in its effort to deprive us of the divine spark to which theology attributes life, we find ourselves looking on with complacency.—*Kansas City World*.

Prof. Loeb is right in believing that life is fermentation, and is in line with the processional theory, inasmuch as it is the fermentation or disintegration of what we eat or drink, which, by friction, produces the heat or force in our body necessary to carry on life or the motion which produces the sensations of consciousness. What Prof. Loeb referred to and experimented particularly with, however, was the origin of life, which is also purely chemical or fermentation and from that all higher life has evidently evolved. It is a mistake to believe that science is endeavoring to deprive anybody of their theological spark of divinity; it is simply trying to arrive at the exact truth. If the truth should show that theology is wrong, no harm can be worked, because the truth can only do good. When we know the truth and awaken to fully realize it, we will drop all foolish and time wasting processes of asking and expecting some one else to save us and proceed on the common sense plan of trying to save ourselves. We will study the laws of life and nature and knowing that they must be obeyed, we will either obey them or expect to suffer the inevitable punishment due us. The theologian says in effect: "Never mind how you live, only believe what I tell you and you shall live a better

life after you are dead. If you live a very, very bad life and repent, there will be ninety-nine times as much attention paid to you in the life I give you, than as if you had lived the right kind of a life." Can the truth injure a man who believes a theology like this? The doctor says in effect: "Never mind how you live or what or when you eat and drink; I will give you my pills and physic and bring you out all right; but if I fail and you die, the preacher will send you to a better land." How much better to know the truth and realize that if we do not live according to the plain and simple laws of nature, we must suffer as we deserve and return to the great sea of expanded matter from which we come. The lawyer says in effect: "Never mind how you treat your fellow men, pay me a fee and I will get you out of trouble." When we finally realize the truth and cease depending on all these frauds to save us, we will at least advance the best interests of humanity. When we realize that it is a disgrace to get drunk or dissipate or be intemperate in any way, so as to cause sickness and trouble, we cannot but be benefited. We must realize that every person is his own saviour here and now, by his own effort and not by the mystery, pills or chicanery of those who live as parasites upon our credulity. Human beings are surely evolving to a higher plane of life. When man was originally a plant he had but one sense or way of receiving information *i. e.* touch; later he evolved the sense of taste; next the sense of smell, then hearing and finally sight, the feeling of light, and now in the fourth century of the era of man, he is developing a still finer and more wonderful sense of touch, whereby he will be enabled to use these five senses of touch through the medium of his own vibration of expanded matter, by the force of his consciousness.

Let none but Liberals be placed on guard.—*Philosophical Journal*.

This is the kind of "spirit" that HIGHER SCIENCE believes in. Let us begin by electing a national ticket in 1904.

WHERE LIFE BEGAN.

Some one has advanced the theory that life began at the north pole; that the primates, including apes, monkeys and lemurs who lived at the pole, were directly the ancestors of the human race. According to the theory of a procession of planets there can be no doubt that the crust of the earth first hardened at the poles (103) both north and south where it was the coldest and where the water could first fall, and where there was no motion of revolution to break up the gradual crystalizing of the crust. This happened when the earth was at about the orbit of Mars, and the winters lasted a year, instead of six months as now, on account of its greater orbit and slower speed requiring two years instead of one, to make a revolution around the sun (105). We have proof enough of this condition in studying Mars at the present time, although we must consider the fact that Mars is cooler, and therefore farther advanced in life than the earth was at the same orbit, because it is so much smaller and would necessarily cool quicker (106). We can see the rings of snow at the poles of Mars, as each is alternately on the opposite side from the sun, and we can see it rapidly melt away, causing the growths of vegetation along the lines of its "canals." We must expect that life commenced near or at the poles, but it must have been very meager and stunted on account of the cold of winters. This life would no doubt gradually move towards the equator as the crust hardened and become always better developed by the laws of evolution. (III.) If such animals as mentioned, are found near the north pole, they are more likely to have drifted there at a period long afterwards (see HIGHER SCIENCE March, 1903, p. 64) when they had evolved to that high order nearer the equator where the climate would permit such a development. The most rational conclusion which geologists have been able to arrive at in regard to the time elapsed since the forming of the earth's crust is 400,000,000 years (52) which gives plenty of time for

the first life to begin at the poles as vegetation and gradually reach the equator, develop into animals and as such again migrate or drift to the poles and be deposited in the strata or ice.

THE NEW STORY OF THE SOLAR SYSTEM.

ELECTRO-GERMAN ASTRONOMY EXPOSED.

BY FRANKLIN H. HEALD.*

Dr. Baur, in an article in the *Torch of Reason* February 5, says, amongst other reproachful things:

"There is an article in your *Torch* signed by a certain Heald, and treating the 'Nebular Hypothesis.' I should think that if anybody intends to write about such a heavy affair as this problem, he would first study the laws of electricity."

Answering, I will say, hoping to not give the impression of egotism, that I have studied electricity a great deal and find it to be the motion of a very subtle part of expanded matter. I also find that light, heat and electricity, like liquid, colloidal or solid matter are, all but manifestations of heat or energy and that they are interchangeable, inasmuch that either can be changed into either of the others. I find that all space is filled with expanded matter between the solid matter, and that electricity can be gathered from it by friction and stored for a time and used as needed, either as electricity, heat, light or power. I also find that solid matter contains the same properties and that when we make the proper combinations to cause the disintegration of solid or liquid matter the friction produces the heat or expansion which is power, motion, light, electricity, or whatsoever we wish to make of it. Continuing his complaint he says:

"I will say that the Nebular theory is very Nebular to Heald, because it does not start with a sea of red hot gas, but only with mists turning around a center according to the laws of electricity. According to these same laws the mists became more and more dense and then only they began to get red hot, in consequence to the laws of condensation."

Here he shows the fallacy of the Nebular Hypothesis, and also his own inconsistency in reasoning, or attempting to

*This article appeared in *The Torch of Reason*, Kansas City, March 19, 1903.

reason in English. He has evidently manufactured a law for electricity which is contrary to nature, compelling a body of mist to become more and more dense as it heats. This is entirely impossible, because as matter heats it expands and occupies more space and can never condense or contract until it begins to cool. There can be no such a thing as red hot gas. As soon as matter is expanded into gas, it is entirely colorless and remains colorless until it is illuminated by the motion of light, or crystalized by cold into solid matter. He does not tell us where the mists come from, but they are condensed gas of expanded matter beyond Neptune, where the new worlds are formed and inherit or continue the motions of the sun which the atoms of expanding gas never lost as it was gradually pushed out in every direction from the sun by continually expanding matter or radiation at the sun's surface. The upward pressure of this expanding gas from the sun has been measured by Prof. Peter Lebedew of Moscow, Russia. It leaves the sun's surface at the equator principally, which is its most swiftly moving part, and travels with the same speed (4000 miles per hour) from right to left, and travels in an ever-increasing orbit around the sun until it becomes so cold beyond Neptune, that most of it is condensed into sparkling crystals, great clouds of which can be seen in a zone at right angles to the milky way, and on the plane of the sun's equator. Upon this plane are the planets, satellites, asteroids, zodiacal lights, and most of the solid matter which is gradually falling back to the sun in continually decreasing orbit, increasing their speed around the sun in the same inverse ratio with which they decrease the diameter of their orbits. What little matter is condensed too far out from the plane of the sun's equator to be caught by the newly forming planets as satellites, is attracted to the sun independently as comets.

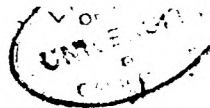
Still continuing his foreign remarks, foreign to logic as well as to the American language, he says:

"It does now not matter whether we agree with one of two possibilities: First, we may accept that this immense ball threw off the so-called planets, or we may say that in this mist there were found several centers. Astronomy does not pretend to say that the planets were cast off after the condensation of the whole mist, because this would be nonsense. No; during the formation of the mists and their condensation

to a dense gas, the planets were cast off, for the earth was, on its beginning, a ball of red-hot gas. Now nothing hinders us to admit that the so-separated balls were subjected to different influence according to their size and density. There is no reasonable cause why we should not understand the different celerity of rotation of different planets and their satellites."

Like the votaries of Bible lore, he is willing to change the meaning of what the Nebular Hypothesis says of itself, making a day mean 400,000,000 years if necessary, in order to make it conform to new discoveries and dodge ridiculous situations. I agree with him that the condensation of mists into gas is the veriest nonsense and so also is the whole Nebular Hypothesis as originally propounded by La Place. When a mist or any other solid matter changes into gas, it cannot condense, but on the contrary, expands and occupies thousands of times more space than it occupied when solid. There can be no such a thing as a "dense gas." It is an Irish bull and all his juggling with these "balls," to which he is willing to allow any motion without requiring a reason, is unnatural and childish.

True, there is no reason why we should not understand the motions of the planets and satellites and all other solid matter on its return or falling back to the sun, provided we understand, that as expanded gas, swelling up from the sun, it has and can never lose the motion it had when a part of the sun. As a part of the sun at the sun's equator each atom of gas has a speed of 4000 miles per hour from right to left, and when separated by expansion, it kept right on in that direction with the same speed. The best and easiest way to understand the motions of matter is to study carefully the beautiful and startlingly simple theory or more properly, now established fact, of a procession of planets. This theory recognizes that matter can be in either of three conditions—solid, liquid or gaseous, depending upon the amount of heat to which it has been subjected, and that it has two motions, i. e., expansion and contraction, which are caused by heating and cooling. It recognizes the fact that when returning solid matter falls back into the sun, the collision of its fall (see "Heat as a Mode of Motion," Tyndal, p. 492) and the chemical friction caused by its disintegration or reuniting with the matter of the sun, causes almost exactly the same heat which it cost the



sun to originally expand it into gas. It recognizes the fact that the heat thus returned keeps the sun continually supplied with heat to be radiated away as gas of expanded matter and thus points out the reasons of the operation of the Solar System so simply that a bright boy of ten years old may understand. It shows why matter is in ceaseless motion; that the falling of solid matter creates heat, which again expands it into gas and swells it up or raises its weight to the great heights of Neptune, so that it can condense and fall again to create more heat.

The editor then makes the following comments in order to show the situation, with himself on the fence as an interested spectator, where he has a right to be, of course.

"Mr. Heald is the editor of the magazine *HIGHER SCIENCE*, published monthly at Los Angeles, Cal. (price 10 cents), in the interest of bold and free scientific exploration and extension. All of his works are instructive and delightful to the free inquirer.

Dr. Bauer, whose article we heretofore published, is a German scientist of great learning and originality (now resident of Philadelphia), who has put out a "Freethought Hand-book" of science, which is largely based upon his concepts of electricity.

Whether either of these gentlemen have hold of the true genesis of the Solar System it may take a very long future to show. But the trouble with all these hypotheses seems to be that they do not account for the origin of the sun and its motions, etc., as a part of the cosmos or milky way. As to that, Prof. Langley's new telescope, correcting the scattering vibrations of the atmosphere by counter agitation, may help immensely. But are there not many serious affairs on our little planet to be settled first?"

I must especially thank the editor of *The Torch of Reason* for his high opinion of the scientific research of both Dr. Bauer and myself, but I also wish to call his attention to an article in *HIGHER SCIENCE*, Vol. I, No. 11, p. 4, in which I believe the origin of the sun and its motions are perfectly accounted for in a most simple and rational manner, tho I can not see that it makes much difference about its motion or how, when or where it got them. As I said once before in this magazine, "it no doubt come by them honestly, therefore, without the assistance of immaculate conception" (Vol. I,

No. 11, page 2). Like Editor Wakeman, I concede that there are many serious affairs on our little planet to be settled but possibly not first and that possibly an understanding and adoption of the Procession theory of the motion of matter by expanding and contracting is going to make many of them more simple.

CONSISTENT CHRISTIANITY.

MR. FREDERICK L. CHAPMAN,

Editor *The Ram's Horn*, Chicago, Ill.

Dear Sir: I am in receipt of your letter in which this question is asked, "Has a young man or woman of thoro and consistent Christian character a better chance for advancement in life than one who makes no such profession, and will such a one be more likely to be trusted in responsible positions?" Without hesitation I answer, "no."

During the past twenty years I have had a large experience with this class of young people, especially young men. The most thoroly christian young man I ever had in my employ, went to the penitentiary for fourteen years and several others have gone for shorter periods. If they are thoro and consistent christians they will "provide not for the morrow," which advice, when tomorrow comes, leaves no alternative but starvation or theft. I find that the young people to be trusted, are those whose mothers were honest atheists or who became atheists or infidels by their own reasoning after arriving at the age of maturity. In all my experience I have never found a consistent young christian, either male or female with much intelligence and without intelligence no person can be trusted. In the city of Los Angeles a recent examination by a christian journal, the *California Voice*, shows that every prostitute without a single exception, are daughters of christian parents and the "Millenial Dawn" a religious book, page 163, shows by the parliamentary report of England for 1873, that while there are nearly as many infidels in England and Wales as christians (7,000,000) the proportion of the inmates of the jails are as follows: Catholics 1 in every 40, Church of England 1 in every 72, Infidels 1 in every 20,000. This has been about my

own experience in the matter and I find that the christian teaching, *i. e.* that a person who has lived a very wicked life and repented, will receive ninety-nine times as much notice in heaven as one who always did right (Luke xv. 7) has a tendency to demoralize and ruin the moral character of the young who are taught to believe that it is true. Young infidels are taught to do right because it is right; they are taught that if they do wrong they will be punished by nature here and now, and that is the reason that so few of them are in jail, when compared with christians. The time was, fifteen or twenty years ago, when people imagined that the cashier of a bank should be a goody-goody member of some Sunday school, but after thousands of them have defaulted and gone to the penitentiaries for all kinds of crimes in robbing the banks and public, the people have awakened to the fact that as a class they have less honor than any other, and it is now almost impossible for a young man who has Sunday school connections to secure any kind of a position in a bank. I would therefore recommend young people to steer clear of christianity if they wish to succeed in business. Be honest and you will be respected and trusted.

FRANKLIN H. HEALD.

MOTION, NOT SPIRIT.

The following is part of a very interesting letter from a Pasadena lady who is not a member of the W. C. T. U.

" . . . You spoke to me so kindly that I would like you to help me to know and be a thinker and worker for knowledge. If you could only explain to us our inner lives, explain its intricate workings Tell us why every epoch of the race has run the same round, with perhaps the same difference that you so clearly explain of the material planet, whose speed is ever in the exact ratio, according to its distance from its center of convergency. . . . If all is matter outwardly and all is spirit inwardly, perhaps friend

Heald, your genius can discover that law; it must be there, waiting for some one to turn on the light of knowledge. . . . MRS. M. F."

Our inner life is the motion of expansion and contraction which runs through our nervous system (HIGHER SCIENCE, Vol. I. No. 8, p. 10), vibrating the atoms of protoplasm of which it is composed. Its intricate workings are caused by the food we eat, the air we breathe and all the things we do, and the things we neglect to do, which can effect its motion. For instance, if we do not eat food, these ions begin to contract, *i. e.* get cold and finally crystalize and can no longer move or jar or vibrate each other, when consciousness gradually fades away and we are dead. In order to have consciousness which is life, the protoplasm which composes our nervous system must be in this colidial, expanded or warm condition, so that it can move. The disintegration or rotting of food furnishes the necessary heat by friction, to keep it warm and expanded. It is easy then to perceive that there can be no consciousness, therefore life, outside of a nervous system. True the motion of consciousness, which travels by impulse the same as the motion of light (see HIGHER SCIENCE, Vol. III, No. 4, p. 94), may leave our bodies and travel thru the expanded atoms of matter which fill space, on and on forever, the same as the motion of light, but it can never return to us any more than light can return to the sun. The gas of expanded matter can return to the sun when it is again solidified but light is not matter and neither is thot or consciousness matter. They are only motions which always move farther and farther away from the center of force by which they are vibrated. When this center of force is destroyed, there is no more vibration, thought or consciousness going out from it, tho in a sense we might admit, that the motion it made before it solidified, is going on and on thru space unconsciously, the same as light. If then there was a nervous system in a far away planet, sensative enough to receive the

motion, it might be received and understood by the far away nervous system long after the one sending it was dead. It is admitted that if we could leave the earth far enough (to the point where light has now traveled since that time), and had a telescope large enough to bring the scattered rays of light to a point at the retina of our eyes, we could see god still in the act of smashing the brains out of the poor little Egyptian babies against the door posts of their homes, and the terrible anguish of their parents, altho it has been thousands of years since it happened. It is not happening now in fact, tho if it ever did happen, the motion of the light from it is going on, farther and farther away (thank fortune or rather nature) forever, and will never return (thank nature also). Now this is the only way that it is possible for the motion of consciousness to live after the nervous system which produced it is dead, and I cannot see where there can be any "spiritual" comfort to be derived from the condition, inasmuch as the nervous system which sent it out is dead, solidified and perhaps disintegrated and can neither send out or receive further vibrations, and the motion which it sent out is unconscious and could, in any event, only transmit its motion to a living nervous system.

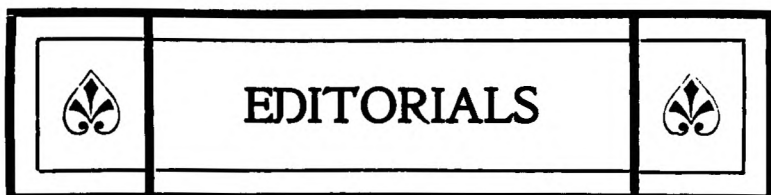
It appears that when people reach a high stage of learning and cultivation, they become less vigorous; that after generations of the ease and luxury of civilization, they lose the ambition and the vim which hardship and a rigorous climate force in any animal and that finally they are easily overcome and civilization swept away, by great hordes of more ignorant but more healthful men, who must again evolve another civilization.

All is matter, both outwardly and inwardly except the motions of matter which I have tried to make plain. What we mistake for spirit is our consciousness; a force vibrated by the expanding and contracting of matter by heat and cold. The more warming food we eat, the more active the force, and if we take too

much stimulating food or especially drink, which acts quickly and vigorously in heating our blood and expanding the ions of protoplasm, our consciousness becomes active to the verge of insanity, while the stimulant lasts. If we can change our minds by what we eat and drink, and we know we can, then it is easy enough to perceive the source of consciousness without calling in any far fetched spiritual mystery. All these things are becoming better understood year by year. What was god last year is natural this year, and what was spiritual last year is wireless telegraphy and telepathy this year. Some of the greatest mysteries of nature when understood, prove to be astonishingly simple and in fact we are finding at last that all the workings and phenomena of nature are merely the simplicity of truth, the expanding and contracting of matter by heat and cold.

Astronomer Heald, of Procession of Planets celebrity, recently discovered a new small but grand sun, but he is too modest to publish his good fortune through his own magazine, HIGHER SCIENCE, but I have it confidently from his own lips. The new body, though quite small, is visible night and day, apparently rotating with the earth, and seems nearly stationary midway between the eastern and western horizons, in the southern hemisphere of Los Angeles. The Professor says there are no "spots" on it, that it can "shove out" more balls than the famous gun-barrel, and that the procession of lacteal fluid towards its center is something amazing. It is curious to note the psychic effect on the Professor; he appears venerable and somewhat aged owing to hearing, of late, so frequently applied to himself the appellation Grandfather! P. S. You know Editor Heald uses the reformed spelling for some words, so I am justified in putting ball for bawl and sun for son!—*Humanitarian Review*.

We blushingly admit that there is such a body turning from right to left, in the vicinity named. We admit that it is a grand son; we admit that it bawls, and that there is a stream of milk flowing towards its center; further than this we will not admit, and we will not admit that we are getting old. The editor of HIGHER SCIENCE is ten days younger than Harry Gaze and Harry is only one year old.



Religious Observations

Of an old farmer, is a neat little book by D. F. Marrs of South Bosque, Texas, price 10c, which every farmer and every other person should read. It is bristling with the truth on every one of its 40 pages.

This is the Year

Of freaks in Los Angeles. First there is the bull down by the P. O. with two tails and five legs; next came Carrie Nation, then Murphy, B. Slit Wilson, Paul Edwards, Rockefeller and the other trusts and now we are looking for the big-family-cowboy to follow in the procession behind the great hollow dragon.

The Demonstrator

Is the name of the new freethought paper published at Home, Wash. (Lakebay P. O.) It is published weekly and the five first numbers show it to be a bright up to date advocate of natural human rights. There are lots of progressive people in Washington, and this new venture will no doubt receive their hearty support.

Any One

With ordinary intelligence can understand the simple new theory of a procession of planets and the motion of matter by expanding and contracting with heat and cold, provided of course he is not an astronomer pre-occupied with other ideas on the subject, and any one with any intelligence at all, can see the outrageous inconsistency of the bible in its teachings and history of the doings of its monster 'god, unless his mind was warped, and bent and bound in the cradle.

We Have Received

A letter addressed to Rev. F. H. Heald and as it is from old friends we realize that it was done for a joke, but after all we perhaps have more reverence for things that are natural and right than most preachers have for the truth.

Some Friend

Borrowed a copy of "Crimes of Preachers" from this office some weeks ago and we have forgotten who it was. Will you kindly return it as we are "short," pending the new issue, which will be up-to-date when it finally arrives.

The Weight

Of all gas of expanded matter in the solar system, is the same as the weight of all the planets, moons, asteroids, comets, meteors, dust and other solid matter which is on the way, falling back to the sun. Just as much must go up as falls back, like the rain.

We Must be

Fed to create the motion of life in our nervous system. If we do not take food, we die. Then life is generated by the food we burn. There is nothing spookey or mysterious about it if we get right up as close as we possibly can to the truth and look right straight at it, without dodging. There is no use in trying to dodge the truth.

Francis Murphy

The bloated old temperance (?) talker, worked off one of his intemperate lies last Sunday, about Col. Robt. G. Ingersoll. He says Ingersoll said to him, as tears streamed down his face "Jesus of Nazareth was the most wonderous personage that ever touched this earth." It is passing strange that a Los Angeles audience would be ignorant enough to listen to such silly lies and not "rotten egg" him out of town.

Dr. J. L. York

Was called suddenly and unexpectedly home to San Francisco, on account of the sickness of his wife, who is now very low. It is not certain when he will return, but in the mean time the Liberal Club will continue its work of reformation by lectures, discussions and entertainments. Meetings are now held in the lower hall which is much more easily reached and also more gorgeously furnished with its silk curtains, velvet upholstering and oriental carpets and rugs.

Last Month

We explained why you have received some sample copies of this magazine. Many have responded with their subscriptions. To those who have not we will mark this item and if you do not then make some sign which we can recognize, we will consider you out of the fold. It is all right to take silence for consent in love-making, but we are fighting the great curse and are compelled to avoid silence in this particular part of the work. When you write, send a few names and addresses of free thinkers and thus help the good work along.

Our Article

Last month, "god's big fight," has stirred up the truly good to the very bottom of their "souls." It has offended a whole lot of dear women who have more tears or salt water in their composition than gray matter. It has however, done an untold amount of good, contrary to certain religeo-humanitarian ideas, and we find that scores of these tearful supporters of the charity fed paupers, who live upon their pennies and nickels, have never before read the chapter from which the dishonest motto upon their W. C. T. U. corner stone is taken. Let us implore you all to read it, dear deluded and misguided ones, and if this magazine misquoted or said anything but the truth, point it out and we will correct it and apologize.

If You Believe

This magazine is all right and doing good work, you can greatly assist by sending us the addresses of good freethinkers, who might become subscribers if they could see a few sample copies. It is not our mission to pat christians on the back and persuade them of their lack of intelligence. We want them to understand the true situation, viz.: that they are loathed and despised for their ignorance by the posterity of the people whom their ancestors burned, tortured and murdered because of their truth and superior intelligence.

The Crimes of Preachers.

To those of our readers and subscribers who have sent for Crimes of Preachers, we wish to say: We are just out of our original stock and the book is out of print, but will soon be printed in a much larger edition and brought fully up to date, *i. e.* as fully as may be because the great majority of the crimes of priests and preachers are committed thru the means of the confessional, in convents and private homes where the females are taught and frightened into helping cover up their crimes. If you will be patient a short time longer you will receive your reward in a much better book.

The Selfish Intolerance

Of christianity was never shown so plainly as in their united effort to destroy their fellow christians the Mormons. It is a good thing for humanity, however, that the house of god is divided against itself. If it were united in fighting the truth, we would have another dark spell of a thousand years. Thank goodness our American women are awakening to the fact that the church has kept them in the bondage of fear and superstition and they are forming themselves into clubs where they can use their own reason and listen to advise and counsel of honest men who do not live off their charity.

There are About

One thousand of the fat charity fed paupers, who are low enough and mean enough to live upon the hard earned pennies of poor women, darkies and little children, visiting this city, praying and eating the fat of the land. We wish our readers could see this motly crowd of bums and notice the shape of their heads where the bump of honor occurs on the skull of an honest man, and especially the swelled appearance of the base of the brain and neck, which shows all too plain why they will go so low as to accept the charity of women rather than live honorable lives like other men.

We Ask You

Our readers to please consider carefully the temperance situation as it exists today, compared to sixty years ago when pure good whiskey was worth but ten or fifteen cents per gallon; when men and women only drank what they wanted; when a drunkard was despised and shunned because he was low and piggish. Consider what has made the saloon possible and profitable and drunkenness fashionable. Any so-called temperance lecturer, paper or society can give you columns upon columns of figures, showing the terrible increase of the use of liquor, and crime caused by its use. Is it right for our government to be a party to all this crime by receiving a part (90c. per gal.) of the blood money? Could the saloon exist if it did not "pay," and would it pay if sold at near cost? Consider the effect if the government should make and sell it at actual cost. These matters are worthy of your deepest thought. Dr. York would say, "Wake up!" "Wake up!"

Women are the main support of the church. If woman should ever get her eyes opened and realize that she is the support of the sanctimonious frauds who uphold and teach the doctrine (of the bible, a book,) that has been a club and a curse to woman, these sleek, well-fed, no-account, hypocritical scoundrels will be forced to work and earn a living by the sweat of their brows, instead of off the sweat of others, starve or grind hand organs.—*People's Press*.



(Matt. x. 21) And the brother shall deliver up the brother to death, and the father the child. And the children shall rise up against their parents, and cause them to be put to death.—*Jesus Christ.*

The Panama-Nicaragua canal is a huge scheme to swindle the people. Two-thirds of the money taken from the public treasury will be stolen by the contractors with false vouchers.—*Appeal to Reason.*

There will probably be a lot of the people's money wasted in surveying, making reports and juggling around as during the past fifty years, but thanks to our U. S. Senate, the canal itself will never be built. The Senate will always protect the people by protecting their own business interests, and that body is composed of the business men and brains of America.

The greatest Master of truth lived much in the out-of-doors. When in need of rest, notably after having been drawn upon by crowds of ignorant and unhappy men and women, he would retire to some lonely mountain-side, and in that primitive freshness and purity receive renewed realization of the Divine Presence.—*Mind.*

Although there is no connection between Jesus Christ and truth, he is the party referred to in the above. It is however a fact that he lived very much "in the out-of-doors," like all tramps. He never had a home and his mission was to destroy the home. (Mat. x. 34). True he was followed by the ignorant and is yet. *Mind* hits off his sleeping places pretty well, too, inasmuch as the freshness and purity (and especially warmth) of the divine presence of a manure-pile was what he sought, the same as modern tramps. He was born that way.

I hate, I despise, I trample under my feet the old dogmas of an everlasting hell, but I do not despise the man who believes it.
—*Dr. J. E. Roberts.*

HIGHER SCIENCE hates, despises and jumps on the half-witted fools who believe such things. Why should we hate god and hell, when we know they do not exist?

. . . . Imagine to yourself that the ether is made up of infinitely small elastic balls. If you strike any one of those tiny balls it will strike those next to it and rebound, and those hit will strike the next, and so the blow will travel from one tiny ball to the next, clear to the edge of creation—if you can imagine such a place. The blow you strike sets *all* the little elastic balls to vibrating, or moving back and forth. . . . —*The Nautilus.*

The above is a very rational conception of the processional theory of the motion of matter as copyrighted in 1899, 1900 and 1901, by the editor of HIGHER SCIENCE. The "ether" spoken of above is of course the gas of expanded matter which fills all space and thru which the impulse motions of light, heat, thot, sound, etc., travel, to reproduce sensations of touch.

The soul is spirit expressed or individualized, while the body is soul manifest or materialized. The soul develops as it unfolds to higher harmonies, and, on the material plane, the body manifests what the soul expresses on the mental. Soul unfoldment and physical development are ever in correspondence, and both are equally evolutionary in character.—*Common Sense Advocate.*

As a man evolves better brains he realizes more and more that what he has supposed was a soul or spirit is simply the consciousness; a natural force produced by what he eats and drinks. It is the effect upon his nervous system of the expanding and contracting caused by heat and cold.

Rev. E. E. Plannette of this city, who was under arrest for having stolen some potted plants, has been declared insane, but some of his neighbors who are very well acquainted with him think differently. Well he was only following the example of our blessed d. h. savior who stole corn on Sunday and advised his followers to "provide not for the morrow" which leaves no alternative but starvation or larceny.

A Chicago woman says "no woman should be married to one man for more than three years." That would be far too long for a decent man to suffer the misery of a married life with her.—*Escondido Times*.

So long as society is content to teach as fundamental facts, as the exclusive sacredness of the Bible, that the Bible is the special work of God, and has the right of way over every other book because of its special divine favor, just so long will the advocates of such doctrines be seen sending up their impotent ravings about the triumph of evil.—*Stuffed Club*.

The *Religio-Humanitarian Review* gives the following review of its own opinion of itself:

"The *Humanitarian Review* is the only exclusively liberal freethought periodical on the Pacific coast, without fads or isms of any kind."

It is said that a person without some fad or hobby is absolutely useless. Is it possible that Bro. Davis has a fad after all, and does not know it?

The universe is one great body, a working unit; "all things are co-operative causes of all things which exist;" cause and effect are related and inseparable. It does not require much depth of thought to grasp the principle taught by Nature—that of law and order, sequence, the adoption of means to an end. We see in her an ingenious worker, bringing into the material state from her limitless resources, countless forms and shapes, experimenting, perfecting, destroying, and so on and on continuing her work forever.—*Health Reporter*.

There is a society in France, the Freres de la Cote, which is attaining an alarming amount of influence. It numbers 2,500,000 school boys between the ages of fourteen and twenty, bound together for the propagation and encouragement of atheism and the destruction of the power of the Papal church. On the arm of each member is tattooed in large characters the letters A. D., signifying the words, Anti Dieu, or "Against God."—*Ram's Horn*.

France is leading the world in science and civilization and rapidly getting rid of the curse of god and christianity. Such a society should be organized in America at once. Think of the power for good, such an army of the brightest young brains of America would have when they come to the age of maturity.

Dr. Parkhurst concluded, saying: "I have not lived to my age without knowing what internal and infernal lies I sometimes tell myself, and how desperately hard I sometimes work in the effort to fool myself."—*The Demonstrator*.

This is the first time he was ever known to tell the truth, and shows that he has never been able to fool himself with his own lies. He can fool the darkies and the less intelligent women, but he can not fool men, nor the women who think.

Do not think that the Socialists accuse the capitalists. There is one that accuses them, even Christ in whom they profess to believe. But had they believed in Christ, they would have believed the Socialists. For he wrote of them.—*Appeal to Reason*.

If the Socialists are going to depend on Christ they will probably blow out the wrong way. Whatever has been written about him was written by others. The chances are that if he ever lived at all, he was as ignorant as his reputed father and could not write. His strong point was wine-making and casting out devils.

To mental scientists every mysterious power is mind; to the modern christian it is God; to the materialists, it is a mode of motion; to the spiritualists, it is a spook; to the Indian, it is the "great spirit;" to faddists, it is the "I am," psychic power, or hypnotism.—*Flaming Sword*.

To the materialist it is not a mystery at all, but simply the expanding and contracting of matter by heat or cold. Show HIGHER SCIENCE any other power and take the \$1,000 we keep on deposit for that purpose.

And the slain of the Lord shall be at that day from one end of the earth even unto the other end (?) of the earth; they shall not be lamented, neither gathered, nor buried; they shall be as dung upon the ground.—*God*. [Jer. xxv. 33.]

And yet there are religious people who say that god is good and who hesitate to kill a calf to eat, when they are hungry, for fear this god will be displeased at the taking of the calf's life. Great Scott! think of the inconsistency; murderer, not of calves, or lice or flies, but first born babes, "old and young, both maids and little children and women" [Ezek. ix. 14.]

The moving finger writes; and, having writ,
Moves on: Nor all your piety nor wit

Shall lure it back to cancel half a line,
Nor all your tears wash out a word of it.

—Omar Khayyam.

God is the Father-Mother Deity in the Lord, offspring of heaven and earth, the divine unity of spirit and matter eternally employed in the glorious works of transmuting and translating each other from glory to glory through the mediation of him who effects their Deific conjunction. . . . For God lives eternally by virtue of the periodical marriage suppers of the Bride and the Lamb. The Tree of Life yieldeth her fruit, and it is the flesh of mighty men prepared for absorption into Deity, whose throne is the intellectual principle in man.—*Flaming Sword*.

The above explanation of koreshanity (religion) should be definite enough for the "culled foks" down in Florida, where they are opening headquarters for saving the world.

The bible is not a book for beginners in the school of progress; it is a text-book on the science of life, and is written for the use of the God-Man.—*Christian Worker*.

True, it is hardly fit to be put in the hands of a child or in any school. Too true, it is only for the god-man, to wit: the charity fed pauper who works the god business on women of a less intelligent order and darkeys. We suggest however, hoping not to be pessimistic that it is more of a text-book on the science of death and the different ways god had of murdering and massacring people than it is one on the science of life.

To these native instincts our material end is the great sleep which rounds our brief life. It is a loss of the only exercise we truly realize. "It is not going into a new country, but an end of the journey we have traveled so long." Let us be honest to the most fervent believers. In the great hope it can never be other than mystery—the saddest, deepest, most disturbing mystery."—*Star Gazer*.

Why make such deep mystery out of so simple a matter. The mystery is only in the minds of ignorant people, and the more ignorant the deeper the mystery. To a clam all is mystery but a dog or horse understands some things.

Hon. Frank Burns, the wicked old "Infidel" geologist of the Smithsonian Institution, in writing to subscribe for the magazine, compliments us highly, and of the processional theory says:

" What you say in regard to heating and expanding and the cooling and contracting of matter, is most certainly true. I have been satisfied of that very point, about thirty-five years, ever since I began to study meteorology. You have formulated my thots on the subject better than I could have done had I tried, and I have never tried because I never publish anything. I study science to please myself and because I was born that way. I have been a geologist for sixty years and deal in very hard facts, viz.: the rocks, and from what I read in them, I am an infidel. . . . "

"A flesh diet breeds grossness of mind and body, develops the brutal and sensual, as well as the cruel side of human nature. This much no fair-minded man of intelligence would deny."—*N. Y. Vegetarian.*

This is the narrow opinion of a man who eats the lowest order of animal growth *i. e.* vegetables. Cows or sheep are a good example of what vegetable diet will produce. A man who eats such stuff, gets these same milk-and-water notions, and not having a cow's stomach with a special arrangement for re-chewing the cud, he is incapable of reasoning, because he is hungry. Give him three or four pounds of meat and his mental vision clears up at once and he sees the inconsistency of hesitating to take animal life, while following at the heels of a god who has no qualms about murdering millions of first-born babes merely for amusement.

The following letter from a grand old atheist has the right kind of a ring of truth and sound sense:

"Why should I hesitate to tell the truth when to withhold it would be a lie. I consider the character given to Jesus Christ in the bible as the character of a low villian and a cur, the illegitimate son of a prostitute. To me, everything in connection with his surroundings and history are revolting and low. Why then should I be required to listen to the never ending abuse of the ignorant followers, dupes and pretended agents of this dispoiler of homes and not be allowed to tell the truth about him and the kind of people who are connected with him. I have done

business with thousands of his dupes and agents and telling the truth about it, I am compelled to say that I have never yet found an honest christian who had ordinary intelligence. I have done business with thousands of unbelievers and find the great majority of them to be honorable. An intelligent person cannot be a true christian and be honest, because its teachings are to lie, steal, beg, rob and murder. Its god is the greatest monster ever introduced in history. Christians do not and cannot deny this, they can only say "god's ways are past finding out." The character of their saviour is the character of a low-born and illegitimately born tramp, whose later example and teaching are most vile and dangerous. Why should I not tell the truth about it when upon the truth depends the salvation of humanity. Why should I, who can see and understand the villany of the priests and ministers of this vile hindrance to human progress, stand back and help suppress the truth, because the less intelligent women of our race and the lower races are misled and duped into a belief that this curse upon humanity is the only means of keeping them out of a lake of burning brimstone where they will burn forever. I consider the person who advises silence upon this vital question a coward. Come out on the side of truth and science and help save humanity from this awful curse. . . . You are doing the right kind of work with your splendid HIGHER SCIENCE magazine. I have known you too long to advise you not to falter in the work. You will succeed financially and your theory of the motions of matter is the only theory which can stand. It is true and too simple to require a lifetime for recognition."—F. W. G.

The following is an extract from a sermon preached by the Rev. Spurgeon whom christians consider one of their greatest men, outside of the pope and Christ.

"There is a place, I don't know where it is, where the only music [it would truly be music to such as he] is the mournful symphony of damned souls. [If he had said fools, and referred to heaven, he would have made a hit]. Where howling, groaning, moaning and gnashing of teeth make up the horrible concert. (cheers). There is a place, [he don't know where it is] where demons fly swift as air, with whips of knotted, burning wire, torturing poor souls; (applause) where tongues on fire with agony burn the roofs of mouths (of souls) that shriek in vain for drops of water—that water all denied [by god who permits such crime]. When thou diest, oh sinner, thy soul will be tormented alone, that will be hell enough for thee, but at the resurrection thy soul will be united to thy body, and then thou wilt have twin hells [smacking his lips], body and soul will be tormented together (applause), each brimful of agony, the soul sweating in its ut-

most pores drops of blood, (great applause), thy body from head to foot suffused with pain (renewed applause), thy bones cracking in the fire, (wild applause and yells of hear, hear,) thy pulse rattling at an enormous rate in agony, every nerve a string on which the devil shall play his diabolical tune of hell's unutterable torment." (Wild enthusiasm and cheers, women and negroes shedding tears of joy at his feet.)

Think of the depravity of a brute who could teach such a doctrine as this. His portrait is the picture of a brute and a hog. How can any honest, intelligent person do otherwise than loathe and despise the ignorant dupes who would listen to such depraved teaching and not rotten egg him out of town.

From a religious book called "The Millennial Dawn:" which has had an immense sale, as evidenced by the fact that it is now in its 120th thousand, we take some striking statistics on page 163, as follows:

The Status of Society in England and Wales.—Parliamentary Report Made in 1873 —Population by Religious Professions.

Roman Catholics	- - - - -	1,500,000
Church of England	- - - - -	6,993,935
Dissenters—Protestants, other than Episcopalians	- - - - -	7,234,158
Infidels	- - - - -	7,000,000

Total number of criminals in jail:

Roman Catholics	- - - - -	37,000
Church of England	- - - - -	96,000
Dissenters	- - - - -	10,000
Infidels	- - - - -	350

Proportion of criminals:

Roman Catholics	- - - - -	1 in 40
Church of England	- - - - -	1 in 72
Dissenters	- - - - -	1 in 667
Infidels	- - - - -	1 in 20,000

And this from a book teaching the holiness of the christian religion.—*Philosophical Journal*.

One of the most remarkable discoveries of the age will be that of taking electric power directly from illimitable, inexhaustible storehouses of electricity all around us, directly from that inconceivably grand and powerful dynamo, the sun.—*Philosophical Journal*.

Correct; heat, light, electricity and energy are all one kind of motion in different speeds of vibration.

Either can be changed into either of the others. The colorless gas of expanded matter from the sun, fills all the space of the solar system, and these phenomena are manifestations of its motions. (See HIGHER SCIENCE Vol. III. No. 4, p. 94.)

The schools turn out a mighty army of men without consciences. If we must have devils, let us have ignorant and not educated devils. Put the bible in the public schools. If any one does not want to worship God let him keep his mouth shut. Germany and England are wiser than we, because they have the bible in their public schools."—*Rev. George Bedell Vosburgh.*

There is no doubt but the bible in public schools would make ignorance as he says, but not devils.

This wind bag is one of the paupers of Denver who live from the charity of poor misguided women, who are mental cripples. He has lorded it over these females so long that he imagines he can close the mouths of intelligent men also. The Devil is the only character of a gentleman recorded in the Bible and the only one with the exception of Baalam's ass, who showed any intelligence. What he says about Germany and England is a silly lie, which a man with half an allowance of brains would not tell even to women or darkies. Ask Admiral Dewey about it.

J. C. Steiner of Georgetown, Ky., gives the following motto for the twentieth century: "I ask no man to believe anything but that each investigate everything."

Out of all the wisdom of the world, there is nothing beyond this: Be happy and you will be healthful and prosperous. *Now.*

HIGHER SCIENCE can only think of one thing better, and that is to study nature, live right, so that your health will be perfect and you will be happy and you can not be happy until you are healthful, eyether.

That spiritual and intellectual cold storage plant, known as the Congress of Religions, has closed its work in this city and opens up for business next in San Jose.—*Penticost*

It was a sort of a frost for religion, now that our atten-

tion is called to it. These religious congressmen had a way of telling the truth unknown and not allowable in the old-style religious circles. To religion, the truth is blasphemy; and to truth, religion is the robbery of innocent ignorance.

If you have a soul, feed it with good thoughts; cheer it with kindly deeds; enlighten it with the lamp of reason and strengthen it with the power of good deeds well done.—*Philosophical Jol.*

When you find it is the motion of consciousness, caused by the friction of disintegrating food, feed it with the best rich food you can get and carry out the balance of the above good advice and you will have done well.

The Sunday-school is to be the center or pivotal point around which a great undertaking is about to be launched. To get hold of the mind of the young is the important object in view.—*Star Gazer.*

The above astrological prediction is as old as the first religions of men. No religion can stand unless the minds of the young can be warped and misshapen. The pivotal point, however, will probably be young darkeys during the twentieth century and the young pups thereafter, inasmuch you cannot fool a white American boy or any other white boy of average brains with any religious rot, after he passes the "Santa Claus" period.

If the telescope reveals the infallible truth of worlds beyond, then that instrument is greater than we ourselves and is the savior of our race, for without it we would know nothing. God must have used a telescope to gain the knowledge we attribute to Him. If he did not, then there is a way whereby we also may obtain this knowledge.—*The Mazdaznan.*

If god used a telescope, it must have been a very little one, if it was no larger than his own knowledge of astronomy. When he had worked six days making the earth he did not know it was round and his disabled burdenbearers still believe it to be flat, with an angel holding up each corner. Yes, there is a way for us to find things out if we have brains of our own and are not too lazy to use them, but we will never find out anything good from god.

A CHALLENGE.

I hereby challenge any orthodox clergyman to meet me in a friendly debate at any time or place in Los Angeles upon the following proposition:—"Resolved that the King James version of the Bible in its teachings is absurd, self contradictory, untrue and injurious to mankind." I affirm. H. HARRY HUTCHINSON.

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(I am acquainted with this beautiful property. It is as represented.)—Ed. HIGHER SCIENCE.

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