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OF THE MOTION OF MATTER

Issued Monihity Entered at the Postoffice at 218, 219 and 220 Stimson Block at Los Angeles as Second-Class Matter FRANKLIN H. HEALD, Editor and Proprietor

Vol. IV.

LOS ANGELES, CAL.

No. 2

WHAT GREAT MEN HAVE SAID

Supporting the new and wonderful theory of a procession of planets, great Astronomers, Physicists and Philosophers have given their tetstimony of its truth; many of them as a sort of prophecy, long in advance of its discovery in 1899. Scientists of today will be astonished at this testimony, when they find it grouped together.

In his "Terrestrial Magnetism," Prof. Proctor says:

"Interesting as are the bonds of union which Copernicus and Kepler and Newton have traced in the relations of our system, it would seem as tho we were approaching the traces of a yet more wonderful law of association."

Speaking as a real prophet, *Prof. Agassiz*, the great American scientist, once said:

"When the unitary science comes (which is the theory of a Procession of Planets), it will be something so entirely aside from our fixed habit of thot, that it will find its first appreciation probably among men of large general culture, rather than among specialists in science."

Referring to what becomes of the Sun's radiated energy, which is the foundation of the new theory, Sir Wm. Herschel, thinking light was matter, once said:

"It is probable, nebulae form the material, out of which nature elaborates suns and systems, and that in virtue of a central gravitation, each particle of nebulous matter becomes more and more condensed and assumes a rounder form; it acquires gradually a rotary motion and the condensation goes on increasing until the mass acquires consistency and solidity, and all the other charters of a comet or planet; that by a still further process of condensation the body becomes a real star, and that thus the waste of celestial bodys, by the perpetual diffusion of their light (gas), is continually compensated and restored by new formations of such bodies, to replenish forever the universe with planets and stars (*Phil. Trans.* 1811)."

Prof. John Tyndal, in "Heat as a Mode of Motion," page 449, says:

"As surely as the weights of a clock run down to their lowest posi-

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tion, from which they can never rise again, unless fresh energy is communicated from some source not yet exhausted, so surely must planet after planet creep in, age by age, toward the sun."

Prof. Ernest Haeckel, "Riddle of the Universe," p. 243, avs: A - 1 - - - - - says:

"Even our Mother Earth, which was formed of part of the gyrating solar system millions of ages ago, will grow cold and lifeless after the lapse of further millions, and, in gradually narrowing its orbit, will fall, eventually, into the sun."

Why, then should he not have known that in its fall it must restore heat to the Sun?

It thus appears that the upper strata, both of the sun and of the earth, consists of the lighter constituents which are largely removed from the lower atmosphere by their lightness, and no limit can be placed upon the distance to which these elements would travel from sun or earth into interplanetary space. What is true of sun and earth is doubtless true also of other planets and other suns, and it seems not impossible that even interstellar space may contain these and similar gases in an almost infinitely attenuated condition. What the condition of these gases may be at the temperature of interstellar space, which cannot be far removed from absolute zero, it is difficult to say. On the one hand at such a tem-perature they might be expected to be solids, but, on the other hand, the particles would be relatively so few and far spart from each other that they would have the properties of a gas. The great advance in our knowledge of these fields during the last few years gives promise of much new light in the near future .- Popular Science Monthly, Feb., 1903.

The above is a great victory for the theory of a procession of planets, altho it only admits a possibility that all space may be filled, with gas of expanded matter.

The sages who have compassed sea and land,

Their secret to search out, and understand,-

, My mind misgives me if they ever solved

The Scheme on which this universe is planned.

Omar Khayyam.

Applying the law of binary evolution to the planetary system, Dr. See concludes that the planets were separated not in the form of rings, as La Place supposed, but in the form of lumps or masses, which would easily condense into planets, and satalites. In this manner he escapes the necessity of explaining how rings would condense into single masses; in-deed, he maintains that rings would not condense at all, but become swarms of small bodies, like those which make up the rings of Saturn and the small planets between Mars and Jupiter.—Stars and Telescopes, p. 252.

The author (David P. Todd) then proceeds to indorse Dr. See's ideas as the most reasonable yet advanced (1901.) Of course he had never read or heard of the Procession theory at that time, but the impossibility of the Nebular hypothesis were very apparent to both Dr. See and Prof. Todd, as they are becoming to many of the leading thinkers. The ridiculous feature of the outside planets traveling so much more slowly, when they should travel hundreds of times faster than the ones nearest the sun, is dawning upon "common people" and forcing astronomers to revise their old worm-eaten creeds.

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By and by the "common people" will force them to see the whole simple truth of the Procession theory.

Chamber's Astronomy, Vol. 1. p. 399, says:

"There is reason to believe that comets in general, for some unknown cause, decrease in splendor in each successive revolution."

When we consider the above fact by the processional theory, the unknown cause becomes perfectly simple and easily understood (HIGHER SCIENCE, Vol. II. p. 26) and it is only burning itself up and scattering as it drops towards the Sun because the lighter matter falls farther and farther behind until its splendor wears out, and it finally burns up its nucleus—i. e., expands it into gas and there is not enough solid matter in any one place to make illumination by its falling.

Peabody's Elements of Astronomy, Note 485, says:

The periods of both Encke's and Fay's comets are gradually diminishing; Encke's loses about one day in eight revolutions. This indicates that some cause checks the forward or tangential force of these comets, leaving the radial force of the sun to draw them more swiftly about itself. Encke supposed they were retarded by a resisting medium, or ether, which is densest near the sun. But Fay's comet is delayed more than Encke's, altho its perchelion is much farther from the sun. (Its orbit is larger.) Others suggest that comets meet rings of meteoric stones, and that Fay's, as its orbit is farthest from the sun, encounters most of these obstacles. Should the hindrance, whatever it may be, act long enough, they must finally disappear in the sun.

The fact is they shorten their orbits for the same reason and by the same law that all the planets do, but they are so small and have such eccentric orbits that they give us an exaggerated scale to figure from. The reason Fay's comet nears the sun faster is because it is farther out and so moves slower and does not have so much centrifugal force to check its approach, exactly by the same law that the planets near the Sun.

Prof. Wheewell, in his "Bridgewater Treaties," page 128, says:

"The fact really is that changes are taking place in the motions of the heavenly bodies, which have gone on progressively from the first dawn of science. * * * The moon has been moving quicker from the time of the first recorded eclipses and is now in advance about four times her diameter of where her own place would have been if it had not been affected by this acceleration. * * * The obliquity of the elipse also is in a state of deminution and is now about two-fifths of a degree less than it was in the time of Aristotle."

Thus we have proof that the Moon is increasing her speed and shortening her orbit, the same as all other heavenly bodies. The same infallible law of falling increases her speed and brings her nearer the Earth, and all matter, both in the solar system and universe moves by the same law.

The same writer says of the earth:

"The eccentricity of the earth's orbit has been diminishing from the

earliest observations of our times."

We know also that about every thousand years, some bright astronomer like *Omar Khayyom* corrects the year. If we stop to reason and consider the matter carefully we must realize that the time of its orbit is shortening as its speed increases by falling.

Prof. Edgar L. Larken, of Mt. Lowe Observatory, Cal., says:

* * Although the prophecy business is risky, the assertion is ventured here, that discoveries in science will be so great as to upset all our present conceits. Some rock-hewn foundation law is near, beside which all our present laws will be little by-laws.

Prof. Lowell says in his new book, "The Solar Systems"

"Mercury represents planetary decrepitude. Mars, on the other hand, represents planetary youth. Mars, unlike the earth, is almost all land; * * water is scarce and its whole supply comes from its polar caps of snow. * * * We now know of relations so systematic and singular that we are sure some law underlies them. It is 'rather pleasant than otherwise' to have that law bafile our first attempts at discovery. The only thing we are sure of is a time to come when each of the bodies composing the solar system shall turn an unchanging face in perpetuity to the sun; when each will have reached the end of its evolution, 'set in the unchanging stare of death.'"

Every planet has its day. Some are in the infant stage of their existence; some, like the earth, are prepared to receive and support life, and some have advanced to the stage of old age—their vitality gone, their beauty departed, and their day of usefulness has passed, and they simply revolve in space as a reminder to the student that all matter, in a material sense, shall inevitably perish. Planets come into existence and in course of time pass out of the sphere of usefulness and others take their place. * * *—Wm. J. Cowen in Philosophical Jol.

I might collect and continue these facts and comments almost indefinitely, but the above are certainly sufficient to convince anyone but a Christian, that as solid matter falls in an orbit, it must increase its speed by falling, and decrease its rate of approach to its center by increasing centrifugal force.

MOTION

By J. W. COOPER

Attraction is the first mode of force displayed by matter.

Attraction is the only force really inherent in matter, because all other modes of energy are drawn from it by conservation.

Attraction is the sole motive power in nature. Matter in motion of necessity evolves all other modes of motion or force, such as heat, light, electricity, chemical affinity, life, and mind, and constitutes the vitality of nature. They begin in attraction, pass many mutations, and culminate in the evolution of mind. Attraction being inherent in matter and co-existent with it, it is the Great First Cause.

Rosedale, Kans.

JUST TO KEEP UP THE PROCESSION

* * * I note that you acknowledge the receipt of some of Bro. Heald's literature. I feel sure that you will be interested in and enjoy reading his Procession of the Planets. It controverts some of the generally and long-time received scientific theories, but is none the worse for that. Science always courts investigation, but some scientists are like Orthodox church people; they accept, or are prone to accept, some theories before they are well proven. The Newtownian theory of course in the main is all right, but there are some points in it, not easily reconcilable with known facts. Why don't comets fall into the sun when they get so very close to it? Why do their tails bend from it (the sun) when they are going around it. The powerful force of attraction (gravity) that draws these bodies billions of miles almost in a straight line toward the sun, naturally would draw them right into its body, instead of allowing them to skim around close to its body and go off again billions of miles in a nearly straight course, away from the center of attraction, if there were not some other cause or force other than momentum or centrifugal force to keep them away. If comets were solid bodies, like planets or metcors, they would certainly drop into the sun just as a stone will drop to the earth, while steam, smoke, gas, etc., will not. Of course our most important interests and subjects of concern are this earth, this life, but the better we understand the planetary system and the causes of things, the more likely we will be to arrive at accurate knowledge concerning life here. If the sun threw off all matter in a highly expanded form, there must have been in that matter the elements of life such as exists in that earth today. I think Mr. Heald's theory is at least more reasonable and better supported by facts than the theories held and set forth by leading scientists of the day. I think he makes it pretty evident that none of the planets except the earth and possibly Venus and Mars are habitable. Those canals of Mars are not of human construction, but are no doubt made as he claims by the streams of water from the polar regions flowing towards the planet's equator. His is the only reasonable and satisfactory explanation I have seen in reference to the glacial period and its canal on our earth. Don't fail to read the Procession of Plancts.-J. C. Walkins, in Ghourki Mag.

Comets undoubtedly approach the sun nearer each trip and eventually fall into it. The reason they do not fall directly into it is because they have some orbit motion. The gas which crystalized, and from which they were finally gathered, left the sun nearer its poles, and therefore had less motion of an orbit and was too far from the plain of the Sun's equator to be attracted as a part of a planet or even as the satellite of a planet.

WHAT IS GRAVITY?

Gravity, and why and how it does its work, has always been one of the great mysteries of nature and supposed by some scientists to be "past finding out." According to the theory of a Procession of Planets, it is simply the contraction of expanded matter. It makes no difference how much matter is heated and expanded, even into colorless and invisible gas, it is still one body, each atom or particle being interlocked and a part of the whole body. It is forced away from its center and held there by the expansion of heat and when the cause of its expansion (heat) is removed, it draws back to its center. The heat which expands matter from a center is the force. and gravity is simply the return or fall back (which creates a return force) to the center, when the force of expansion is removed. If we heat a long iron bar red hot, it will expand several inches in length and when the cause of expansion is removed it will return to its original length. When solid matter is expanded into gas by the enormous heat of the Sun, it is subdivided into such infinitismally small atoms or ions, that it seems to require as many degrees below zero to condense it into crystals of dust, in far away space, as it required degrees of heat above zero to convert it into gas. If the expanded gas from the Sun did not condense into crystals of 11,000 times less bulk, it could not return to the Sun until the Sun's heat subsided. Each atom of gas away from the Sun must be larger or occupy more space than its neighbor towards the Sun, because it is more condensed the nearer we approach the Sun. The reason of this is that every direction from the Sun is up, relative to the Solar System, and as each atom of gas is really matter, it has some weight and the bottom one in a pile six billion miles high must hold the weight of all above it, as I have frequently illustrated by the gun barrel filled with bullets and standing perpendicular, each bullet of which must hold up the weight of all above it. If each bullet weighs one ounce and there are 100 in the gun barrel, the botton one must sustain a pressure of ninety-nine ounces or six and one-quarter pounds, and in order to push another bullet in at the breech we must raise the weight of 100 ounces. The atmosphere which surrounds the Earth, making it a temporary center of gravity, illustrates the fact that invisible gas has weight and also that the lower atoms, or those nearest the center sustain the greatest pressure or the weight of those above.

* * * It is not inconsistent with what we know of the past, it is not inconsistent with the great revelation of God, to believe that the world of spirit is about to be more fully revealed unto men. The veil between the world of matter and the world of force has grown exceedingly thin;—we even begin to suspect that it was never there. * * * $-P^{hilosophical}$ Journal.

You are right brother. The vail is getting thinner every hour and the good people of Los Angeles break out in ripples of mirth every time a spirit is captured and run into the city bastile. If it keeps on this way the mediums coming here will be compelled to use an iron gatling, to give them time to escape.



The Occasional One, a magazine published at Dunkirk, N. Y., republished J. Cal. Watson's letter cencerning the Procession of Planets, which appeared in June Ghourki Magasine.

Painter Sturgis has just completed a life-sized portrait of ye editor of HIGHER SCIENCE, which he proposes to exhibit as an example of what a good artist can accomplish from an uncouth subject.

Two mammoth Paine memorial meetings were held the evening of Jan. 29; one by the Liberal Club at Eaks Hall and the other by the Progressive Club at Blanchard's Hall. Both meetings were addressed by ex-ministers, who being honest, have become ashamed to longer live by the charity of poor deluded women, little children and various colored persons.

Address to Ministers of the U. S. is a neat little pamphlet by Frank Morse, of Port Angeles, Wash., which is a hard nut for the clergy to crack. Send six cents for a copy or send for ten or 100 copies if you are able and present them to the holy paupers who are the especial charge of women.

Temporary President (by chance) Roosevelt, can insult a modest and patriotic young lady, by refusing to accept a flag which she (silly girl) toiled to make for him, because he is too great and grand and noble to accept presents from anyone—but he is not a bit too good to accept free special trains and steamers to carry himself and party around trying to secure the next Republican nomination.

A great many subscribers seem to think the editor of this magazine is a mind reader and should know at once, without notice when they change their address. We have not yet reached that stage of telepathy, and you should give us due notice or have your postmaster do so.

England is so far behind in civilization that any fun poked at the old monster Jew God Jehova, whom Christians worship (on faith, never even having seen him), is considered blas-

phemy and punished as a crime. Our good friend, J. W. Gott, editor of London Truth Seeker, has been undergoing persecution in that aniquated region.

It has now developed that the *Tru h Seeker* Co. will not be able to get the "Crimes of Preachers" out for some time. We are very sorry to disappoint those who have subscribed for it thru this magazine. We will now return your money, send you other matter or credit you with double the amount on your subscription. Some of your money has been in our hands for almost a year.

The "daughters of Christian parents," who have occupied the cribs of Chinatown so long, have been routed out of that quarter and scattered over the city, which gives the church instead of the police, the advantage of robbing them. The Rev. Wiley J. Phillipps, Christian and Prohibition editor of the *California Voice*, has been the leader in this persecution. Let us hope he will not seek to further scatter the germs of Christianity by attacking the colored belt.

B. F. Walton, of Knierim, Ia., writes to send his compliments, subscription and inquiry as to when the new edition of *The Procession of Planets* will be out. So many have made the same inquiry that a blank order supplement was added last month at the last hour. A great many are filling the blank and returning it, for which please accept thanks. A great many who want the book, however, have neglected to sign and will lose the blank or loan the magazine. Please do not neglect it longer if you wish the book. as the orders will enable us to publish the book sooner and also make it much better.

A number of subscribers, who are especially interested, ask how they can help support the Magazine. The very best and cheapest way is to write to its advertisers. Ask them all about what they have to sell and promise if you buy to give them due consideration on account of having seen their advertisement in HIGHER SCIENCE. We would soon be publishing double the number of pages with illustrations if we could hold our advertisers.

The second sadest duty this magazine has to perform, is to call attention to the fact of the gulibility of our women in receiving and supporting the filthiest and rottenest religion ever practiced on the earth. We are ashamed of them and are doing everything in our power to make them ashamed of themselves. They are too good and confiding, to be duped

in this way, by these human parasites and foul villians who tell them heavenly yarns, and frighten them with hell-fire and damnation forever, if they do not get down in the dirt on their knees, pay in their nickels and pennies, to the self-appointed agents (?) of the greatest monster of a god, ever invented by the disease of human brains.

The ancestors of the editor of this magazine have belonged to the society of Friends (commonly called Quakers) ever since that Atheist breeding Society evolved from the murderous factions of Christianity in England two or three centuries ago. Thousands have been burned at the stake with green wood and tortured to death in the most shocking manner which Christian brutality could invent. The history of "our folks" is a bloody one and all the blood run from Quaker arteries and veins. They have been abused, lied about, murdered and followed to America and killed. Their course in meakly submitting to this abuse seems wrong and cowardly, but it was their religio-humanitarian fad and they seemed to enjoy death by fire at the hands of other Christians. Now we want it understood that there is no HIGHER SCIENCE blood to be let, in this way and we do not propose either that a lot of charity-fed paupers and seducers of women, shall do all the talking. Have they a patent to lie about and villify good people who are not afraid to speak the truth? We think not; but we realize that a man who is low enough to live off the charity of poor duped women, is mean enough to take any low advantage he can secure by any kind of villany.

A party who has been receiving this magazine for a year at the hands of a Whittier gentleman, writes to have it stopped and insult the editor. He says: "I can see no difference it makes, whether one is born in a calf shed or a palace. Perhaps you can. Perhaps the glamor of the palace raises the individual in your estimation." This shows his narrow and prejudiced estimation of character. It is not "glamour" which raises a person in the estimation of HIGHER SCIENCE, but is the stench and filthy surroundings of birth in a calf-shed which lowers him. Who, with any self-respect whatever could be satisfied with a genealogy which shows himself to be the result of his mother's crime of being seduced by a ghost, marrying her poor old imbicle uncle to hide her crime and retiring to the foul-smelling roosting place of animals to give birth to him. Such a man could not reasonably expect any better fortune than to be executed for the good of his country, and the country would be much better off and have a fresher

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smell, if all followers of such, were also executed and eremated.

A few weeks ago the editor was asked to furnish a few? items concerning his personal history, and ancestory for a Chicago magazine to publish in connection with his portraition In going back a few hundred years hoping to find some service which the family has rendered humanity, he was surprised and chagrined to find that he came from a line of old bull-headed and brutal Half-humans, who would not be permitted to live in any civilized community at the present time. The farther back he traced them the more ignorant, depraved and brutal" they were. The best-one in the lot was an old Scotch-Irish, semi-réligeo, half rodant, who lived in a cave in the north of Ireland and had hair on his teeth like a catfish. He was the holy terror of that region, and when he became excited, his roar could be heard for miles around and everybody hid, until his wrath subsided. We followed the back track of some who come from the south far enough to become thoroly ashamed and alarmed for fear some of our friends might find it out. The only mitigating circumstance to be derived is, that they were no worse than their neighbors, and better than some, as they appear to have known who were their own parents. Let us hope the worst will never be known and that our friends will be satisfied with contemplating the possible glorious future of the family, if they happen to give it any attention at all.

Neil Maher, who is a clean, decent, honest Atheist, of Empire, Nev., compliments the magazine and theory as follows:

Dr. J. Y. Young, of Columbus, Ga., says:

* * * Find \$2.00 enclosed for list of books and magazine. I think as you write.

Mrs. M. Pefferle, Amer, Press writer, Ontario, Ore., writes of the magazine:

Please continue sending it and I will remit soon. I am pleased with it.

T. De Witt Griswold, of Kingston, N. Y., says of HIGHER SCIENCE:

*** It is a great scientific work, imparting much useful learning ****. It is worthy of good support and should have 100,000 good paid-up subscribers. ****



No one tries to injure one he does not fear. The attempt is an acknowledgement of the opponent's power.—Star Chamber Herald.

W. R. Ray, of Atlanta, Ga., says in part:

* * * Just received a copy and am delighted with it. Let it come regular. * * * Can you send back numbers? * * *

Many put zero into the collection and then complain that the church is cold.—Ram's Horn.

If that will not make the church hot, there is no use of trying any other experiments.

Ah, make the most of what we yet may spend,

Before we too into the Dust descend;

Dust unto dust, and under dust, to lie,

Sans wine, sans song, sans singer, and—sands end! —Omar Khavyam.

Writing for HIGHER SCIENCE, J. Frank Rutt, of Wooster, Ohio, says:

* * * I have been a member of the Reform Church and held nearly all the offices, from lowest to highest. * * * Was in a position to find out some of the most damnable practices ever perpetrated upon the human race, by so-called ministers of the Gospel. * * * I want no more church. * *

Mrs. M. A. Lee, of Blue Earth, Minn., says:

* * * I send \$1 to p.v for your excellent magazine for another year. * * A great many sent for "Ages of Reason" and "Facts Worth Knowing" after seeing my name mentioned in HIGHER SCIENCE, but I still have a number left. * * * I am taking a number of Freethot papers, but yours is different from the rest and intensely interesting. * * *

W. C. Wagener of St. Louis, writes a long and interesting letter from which we clip:

* * I received an August number and have read every word in it and am struck with your startling theory of the *Procession of Planets*, and now I want everything you have written or write later. * * * Send me all the back volumes of HIGHER SCIENCE and the book, with your bill for same, also including the next year Vol. IV. * * *

Isaiah, Chap. XLII, 19 v.: Who is blind but my servant? or deaf. as the messenger that I sent? Who is blind as he that is perfect, and blind as the Lord's servant?—God.

Certainly there could be no one as deaf, dumb, blind or

idiotic as a servant or messenger or dupe of a god, whose existance can only be established by the faith of people who have no intelligence.

There is no doubt about The Christian carrying healing vibrations. One lady bound August Christian around a sore leg and it began to heal, so she sent for a bundle of Christians.—Christian.

Of course if there are enough of the ingredients of porus plaster in the paper on which *Christian* is printed it might do the work; or if there was nothing the matter with the lady's limb, "her faith hath made her whole," but to us the above testamonial sounds more like hyperbole.

* * The Kingdom of God is within you. Is that so? (No.) Then there must be something in me, after all. (What he ate for breakfast.) There is something in you. (Same.) The Kingdom of God is within you—if that does not make you Somebody, God is nobody. (True, he is nobody and nothing.) You have been humbly thinking all the time that the Kingdom of God was in the other fellow. It is. But, beloved, you could never see the Kingdom in the other fellow except through the eyes of your own divinity. See? Only God can see God.—Christian.

The above drivel (except that in parenthesis, which is higher science) is a sample of "I am it" religion. As there is no god, he has no kingdom in you or anyone, except in the imagination of people who are partially or quite insane.

So far as I know, the Los Angeles Liberal Club is to be credited with the honor of holding the first Ingersoll Memorial which took place last year.

This club is generally ahead in everything, and when every city, large and small, in the country can boast a Liberal society like that of Los Angeles, and come up to it in enthusiasm and work, then, indeed, Liberalism will begin to feel that it has a spinal column. Secretary Collins. of this club, is first to make a report with a four-page program, with a handsome cut of Col. Ingersoll on first page, and quotations from Ingersoll at top and bottom of each page.

The order of exercises was elaborate and as follows. * * *-Blue Grass Blade.

This year we held two mammoth meetings in Los Angeles and next year we hope to hold more.

A Congregational minister of this state writes to the editor: "To me it seems as though Christianity stands half paralyzed, waiting for a stupid, blundering world to adopt the principles of Socialism and thereby co-operate with God in establishing that for which the centuries have prayed."—Vanguard.

The history of the Jew god referred to above is the history of the bloodiest and most depraved monster ever conjured by the deceased brains of human beings. How any sane white person can believe, or even wink at such depravity is astonishing, and the "blundering world will continue to stand paral-

ized until they destroy every remnant of Christianity and their miserable old murdering god Jehova.

There has been a crusade started to end the protection to vice and to end the toleration of the open violation of law in the red light district. We wish it success. * * * It needs no churchman or saint to act against the cruelties, corruptions, degradations and disorder of the red light district. Any same man or woman must resent such conditions and recognize the evil and the moral and physical disease that district broadcasts amongst our people.—Saturday Past.

True indeed, but we call especial attention to the fact that the offending women are all "daughters of Christian parents," according to the *California Voice*, whose Christian editor is leading the reform. It is further stated from authorative sources, that leading Christians, including a great divine agent are large holders of "red light" property which they rent at \$2.00 per room per night to these daughters of Chritian parents.

* * * Corpuscles fly in every direction in every part of the universe with varying speeds. Any mode of matter that can change their rates of flight to 186.000 miles per scored can be seen. * * The "border "and" between mind and matter has disappeared. It may turn out that what just now scenis uniterably complex in matter, may be simple and easy to understand. * * *—Prof. Edgar L. Larkin in Suggestion.

Another bad mistake by a good man. If Prof. Larkin will read the article in April HIGHER SCIENCE, p.p. 94, he will perceive that light is only an impulse motion running thru the colorless gas of expanded matter or the jarring of one atom against the next, which simply carries the motion along. There are 39,000 vibrations in each inch of a "ray" or line of light (in our atmosphere) therefore, 39,000 atoms in each inch in every direction. Each of these atoms contain thousands of smaller ones and no doubt the small ones contain thousands still smaller *ad infinitum*. What appear "unuterably complex" in matter to Dr. Larkin, is already simple and easy to understand, when we consider it under the light of the processional theory of the motions of matter.

This whine, against the method of HIGHER SCIENCE magazine, comes with very bad grace from Christians, who a cen-

The rationalist has never treated the Christian with any degree of regard for the Christian's feelings. He began fifty years aco or so with the set purpose of ruining the Christian faith with ridicule and appeals to man's false pride. Much of the difficulty the rationalist has raised in the minds of Christian people is by the audacity of his sophistry. We do not degrade reason to exalt faith as he has degraded religion to exalt reason. Much of his success with the young, the frivolous and those lazy mentally is in his speaking dogmatically of things as facts which he knows are only theories.--Public Economy.

tury ago burned heretics and unbelievers, and sometimes with green wood, in order that the feelings of torture might be prolonged as long as possible. The Christian never had "any degree of regard" for the feelings of the Unbeliever and deserves no mercy at his hand or protection from his ridicule and contempt. The wonder is, that in the twentieth century. Christian ogerys of canabalism, faith, filth, debauchery of women, war and nurder are permitted to be taught and practiced in civilized communities. Christianity is a crime which should be punished with death; by humane means however, and not by burning with green wood.

Franklin H. Heald, whose likenes appears as the frontispiece of this number of this magazine, was born in Springdale, Iowa, July 10, 1856, and raised a farmer. Is exactly one-quarter each German French, English and Scotch-Irish. The name is German, meaning hero (probably named themselves), and the old English ancestor escaped from England for Martha's Vineyard, the night before he was to have been hung for the crime of being a "Quaker." Mr. Heald's father was one of John Brown's men who escaped the gallows, and good fortune seems to have followed the family in that respect. In 1878 the subject of our sketch went to Southern California, and in 1883 bought 20.000 acres of land in San Diego county, and founded the city and colony of Elsinore on the shores of the beautiful lake which also belonged to him. Being young and ambitious, he built most of the town. When the "boom" collapsed, with the assistance and conspiracy of the church people, he lost his great fortune, family and friends. (?) Retiring to the Mojave desert in 1895, he discovered the immense deposits of coal mines near Randsburg, the largest vein of which (12^{12} feet) is now being opened and developed. While investigating the formation of coal and the origin of gold nuggets, he found that the earth had once been much farther from the sun with much longer seasons, and discovered the procession of planets in 1890, publishing and copyrighting the first edition in 1900. In 1901 he went to Les Augeles, where he published an edition larger and more in detail, and commenced to publish a monthly magazine which he called the "Procession," but after four issues changed the name to "Higher Science" At first he only taught his new theory of the motion of matter, but found that the truth cannot be established, while Christianity stands in the way, and his magazine naturally took up the battie for truth, ageinst mystery and ignorant superstition.

for truth, against mystery and instinagarine instituation. We hope after reading this short superstition. We hope after reading this short sketch of Mr. Heald's life many of our subscribers will order a sample copy of "Higher Science," and will like it so well that they will decide to subscribe for it. This "Higher Science" publication is as different from "Christian Science" as light is from darkness.-Freethought Magazine.

A paper published at Seattle, Wash., in the interests of the saloon element (which of course is Catholic) called *The Partriach* (?) gives HIGHER SCIENCE, the ladies, science in general, and especially our petition to Congress, asking for the protection of women against the crimes of preachers, two columns of abuse and advertisement. Its editor is a woman-hater and in his

ranting includes the following insult to them.

₩.

We wish to instruct Mr. Franklin H. Heald, editor of HIGHTE SCIENCE Magazine; this advocate of scientific infamy, that truth is masculine and that falsehood is feminine. This is surely a new that to the editor of this disgraceful production, but it is an old that to the editor of *Patriarch*, and it is not quoted either."

It may not be exactly quoted but he gets his idea from the bible and Catholicism, so that it is not original with him. Religion has always taught the slavery, debauchery and ownership of women. It has only been a hundred years since women have been allowed to have a "soul," and in Catholicism even that belongs to the priest. This "patriarch" editor also goes far out of his way, to thank god that "the first lady of the land (the cowboy's wife) gives a cold shoulder to woman's clubs."

The Procession of Planets, by Franklin H. Heald.—The author explains in a comprehensive way the relation of the planets to human beings. Its contents are on Forces, the Different Planets, the Asteroids, Sun, Moon, Comets, Heat, Light and Electricity, explaining the different physical laws as compared with the latest research of astrologers, mathematicians and scientists in general.—Naturopath.

Nelson Tell, of Phillipps, I. T., says:

HIGHER SCIENCE one year. I have received three sample copies and am in full harmony with its living principles."

N. B. SOLUTION You can make life much easier for HIGHER SCIENCE, if you will spare a moment and drop us a postal card. If you have received more than one number as sample you have been recommended to us as a free thinker who is all right,—by a friend who knows you. Now if you would like to have it continued let us know and pay when convenient. If you do not want it all, please ask your P. M. to notify us and greatly oblige. If you will only take this little trouble it will be a great help.

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G. W. FOX & WM. M. JACK, 244 1/2 S. Broadway, Los Angeles, Cal. [I am acquainted with this beautiful property. It is as represented.—KD. HIGHER SCIENCE.]



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OF THE MOTION OF MATTER

Issued Monthly Entered at the Postoffice at 218, 219 and 220 Stimson Block at Los Angeles as Second Class Matter FRANKLIN H. HEALD, Editor and Proprietor

Vol. IV.

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No. 2 3

DEATH IN CRYSTALIZATION

A great amount of time and paper has been used and possibly wasted, during the past year or so, in attempting to show that all matter, including solid or dead matter (23*), is alive. Lately certain scientists have discovered that an iron bar is alive and has feeling and can be put to sleep by morphine, chloroform, etc. One philosopher, whose writings I have been reading, asserts that in certain cases the small particles of an ion, of an atom, travel in circles or orbits at the speed of light, or 192,000 miles per second. The theory of a Procession of Planets, however, teaches us that solid or crystalized matter is not alive or in motion, except on the surface, which is in chemical action, uniting with some element in the atmosphere or water or other substance surrounding it. By examining the surface of solid matter, which is the only part which they can examine, scientists find these chemical motions at work and at once jump to the conclusion that the whole mass is in motion. The fact is that the interior of solid matter is crystallized, or in the shape of crystals laying between straight and parallel lines, usually. The last act of dying matter, or matter which is left without heat and life, is to crystallize. If solid matter were in this rapid motion, it would create heat and could not remain crystallized. In order to be in this rapid motion, it must be in the form of spheres, which it is not, but on the contrary is in the shape of crystallized or solid matter and only in motion or heated at the surface by the chemical action of corroding or uniting with the surrounding matter, as I have stated. When matter is expanding, it is by the force of heat and its atoms are spheres carrying the original motions of the body from which it comes, but when it is contracting

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

and losing heat its atoms are not spheres but crystals, and absolutely motionless except as a body returning by gravity to its center, in an orbit or by chemical action on its surface only. Usually, as in case of Radium, perfumes, and many other substances, where there is very little loss to the solid matter, the great commotion and heat is made principally by the surrounding elements with which it is uniting. To illustrate, we might suppose that the combination made, by chemical action, might be one part of the corroded solid matter, to one million parts of surrounding matter, thus giving Radium, for an instance, credit for doing a million times more work than it deserves. Time is no object in nature and the time will come when a diamond or a piece of Radium will be entirely corroded or disintegrated and united with other matter.

SIGNALING TO MARS

So much has been said by yellow journals and political astronomers about signalling to the inhabitants (?) of Mars that I owe a duty to the readers of HIGHER SCIENCE, in showing why light signals could never be seen at Mars, which come



from the earth, even supposing the planet supports intelligent human beings, who speak the English language and use as good astronomical instruments as we use on earth. In the cut we represent Mars in four positions on his orbit around the sun, and showing his nearest approach to the earth, 47,000,000 miles, which happens when both planets are on the same side

84

of the sun. At this time the dark side of the earth is presented to Mars at mid-day at Mars, which gives but small chance of the people of Mars (if it were possible for them to exist) receiving any signals. The conditions at all other times are almost the same, with the difference that the two planets are farther from each other, the greatest distance being 237,-000,000 miles, when on opposite sides of the sun. Mars does, however, exhibit small phases at 2 and 4, supposing the earth should remain in the position of the cut. The conditions occur but a short time twice a year, so that we rarely get a glimpse of a small portion of the dark side. If we could make a bright signal which any crude life there could notice they would probably fall down in fear before some old wooden god or some imaginary god and pray to be saved, but it is hardly possible that there is more life on Mars than simple vegetation. It is undoubtedly just forming a crust at its equator and has not cooled sufficiently to raise mountains by contracting its bulk.

THE RETURN OF SOLID MATTER

BY WILLIAM PLOTTS

EDITOR HIGHER SCIENCE: I have been much interested in your explanation of the way a planet enters the sun, and think that I can carry out the idea much farther. You show how the smaller body, instead of plunging into the larger, in accordance with the popularly conceived ideas of gravity, increases its speed around the sun in accordance with the law of falling bodies, until it probably bursts into fragments by the heating of some of its elements (water, for instance) that have lodged in its interior, into gases, and the separated fragments plunge from time to time into the sun.

Now, I don't take much stock in theories of violent and spectacular crashing of worlds in space. The deposition of a planet or satelite on its superior is no doubt as deliberate as the other evolutions of those bodies, and would be so slow that a man could not note any change in his lifetime, and many forms of life would have time to evolve by natural selection into adaptations of the changed conditions, if, for instance, our moon should be in process of deposition on the earth, and, speaking cosmically, that event is now about due.

We are all familiar with the trick of swinging a bucket of water vertically around our heads to show that the water would remain in the bucket when upside down. Now, if instead of a bucket we substitute a bicycle wheel containing a little water, we find that when rapidly revolved the water distributes itself evenly through the tube, with a tendency to flatten out in line with the hub, and if all the gravity of the earth was absent and a globe of metal weighing, say, 100 pounds, would take the place of the wheel, it is obvious that the water would take on the form of a thin, hollow disc, provided that the revolution of the water was just right to balance it.

Now we must assume that an advanced planet like Mercury or the moon has no cohesive qualities except local gravitation. because the outer crust of the earth where it has cooled has none, being checkered with cleavage caused by the surface cooling faster than the interior, also by the faulting and crushing that comes from lateral pressure of the whole crust, commonly ascribed to the shrinking of the earth, and as an inferior body approaches its superior it gradually loses its local gravity and takes on a tendency to form into a thin disc like the water would. The body would probably first slowly separate into two or more parts, and if they became far apart in line of the superior globe before extensive disintegration of the parts, they would form two or more discs, one within the other, all revolving as before the separation into rings, or discs.

This process would go on until the inner edge of the disc or discs began to be retarded by the superior globe's volatile envelope, corresponding to our atmosphere, when the disintegrated matter would descend in the form of meteors, though not so rapidly as to destroy life to any considerable extent.

The most serious feature, however, to a life containing globe like the earth would be the interference of the rings with the rays of the sun, and perhaps the perplexing conditions ascribed to the "Glacial Epochs" could be accounted for in this way.

A BALL OF FIRE

Commenting upon different theories of the solar system, shape of the earth, etc., *The Occasiona One* for February finishes an article as follows:

"* * I have often disproved of the theory that the Sun is a ball of fire, and do yet, altho Franklin H. Heald of Los Angeles has tried to convince me that he has the right theory of the birth and death of our earth and where the supply of fuel for the Sun comes from.

"The Heald theory is based upon the nebulae formation of the earth and other bodies of the heavens. That each of the planets are drawing nearer and nearer the great center fire, the sun, and will in time be drawn into it like a moth and the candle flame.

"Mr. Heald claims that the planets Mercury and Venus have passed through stages of life and are dead worlds drawing onward toward their doom, which sometime will be the fate of our Earth. Mars, our outside neighbor, has not yet reached the stage of our world, but will gradually develop the same as we have when we pass onward ahead in the 'Procession of Planets.' Jupiter is still in a molten state but will gradually cool off and in time be in a condition to sustain life; this period, however, will be when our globe has passed to the position now occupied by Mercury. Mercury and Venus will then have passed into the Sun, supplying fuel to that body. * * *"

The Procession Theory is not based on what is called Nebular Theory, but on the fact that we now have absolute proof that the surface of the sun is in intense chemical combustion or flame, and therefore is a burning globe and necessarily



changing solid matter into gas. This gas or colorless expanded matter being 11,000 times greater bulk, fills the solar system. and at a region beyond Neptune, where science estimates the temperature to be 4000° below zero, it is condensed into crystals of cosmic dust, which gather into vast clouds of nebulae, out of which the new worlds gather. We can see these clouds in a zone at right angles to the milky way and encircling the ecliptic or plane of the sun's equator, where we also find all the planets and their satelites. (Lockyear's Elements of Astronomy, note 101.) Argo determined that the light of the sun is of the nature emitted by burning gas, or a flame. The analysis shows that the photosphere of the sun is composed of gaseous matter in intense combustion, or chemical friction. The rapid changes in the spots, and billows of flame, show that it is neither solid nor liquid. Photographs of the sun are taken at our own Mt. Lowe Observatory almost daily, showing the flames and explosions from the surface. These photos are often used by Dr. Larkin in his lectures, by being thrown upon a screen by a magic lantern. No one, after seeing these pictures, will ever doubt that the surface of the sun is a great blazing fire.



Evolution, a 90-page book by J. P. Coolz, is an exposition of the pagan myths of Christianity and very effectually shows the falsity of its claims of ever having anything new under the sun.

Guide to Immorality is a nicely bound book by Dr. Georjean Miller of Diamond, Mo., which is before us with compliments of the author. Though on the spiritualistic order, it is well worth reading. Spiritism is so far above the faith of Christianity that there is no comparison.

Do not miss reading the valuable article in this issue by Wm. Plotts. Mr. Plotts is one of the best thinkers in Southern California, is a sound materialist and Atheist, a leader in reform, free thot and Liberalism, and tho a lifelong Republican, he does not fancy the bombast of certain cowboy officials.

Several valuable articles are crowded out this month, and the prospect of more room does not look so encouraging as a month ago. We are receiving lots of letters, complaining of hard times, poverty, etc., and losing subscribers and advertisements.

A certain church woman writes a scurulous letter to the editor of this magazine demanding that the magazine be not sent to another party in the family. She "don't want her children to read such stuff." The same woman formerly met a certain preacher twice a week, in a certain church, in a certain town, and there are two living witnesses to their crime, which was adultery. If she will consent we will publish her name and furnish the proof.

Send to this office if you want the best and cheapest job work on the coast. We doubt if it can be beaten in the United States. Patronize a magazine that publishes your sentiments and the cause of humanity will be strengthened with gain to yourselves. We do not ask and would not take money from Christians, who beg, force and frighten it from women and children.

The editor has been, and is, the victim of the dreadful disease called *locomotar ataxia*, caused from using the water of a poison spring on the Mojave desert for several years, and for that reason has accumulated several hundred unanswered letters from friends, subscribers, correspondents and others. We appreciate the sympathy, good feeling and encouragement that nine out of ten express, and hope you will not be offended if we do not respond promptly. Most of the important questions asked (as of the Crimes of Preachers) are answered in the magazine.

The war now raging between Japan and Russia can have but one result, i. e., the triumph of Japanese brains over Russian brute force. The Japanese have thrown away all their old wooden gods and snake skins stuffed with dead moss. The great majority, both male and female, are Materialists and Atheists, while the Russians are the most god-ridden of any white race in the world. If a buzzard should happen to fly over the Russian army, in the wrong time of the moon, the soldiers would drop their old flint-lock, black powder muskets, spears and sabers, and run.

We are in receipt of an 8pp pamphlet showing that Romanism is against Americanism—producing all kinds of evidence to prove it. Well, there is no doubt but that it is about as bad as the IOOI filthy litters it has produced. It does, however, have the good quality (of policy) to treat an Atheist decently, who establishes a church for it; which is more than can be said of any of its vile offshoots, which have ever come under the observation and personal experience of the editor of HIGHER SCIENCE, who has never yet met an honest man of any color, who was a Christian. When a so-called Free Thot publication becomes so milky as to give them "taffy" his time has about "run out."

St. John, Chap 111, 8 v.: The wind bloweth where it listeth, and thou hearest the sound thereof, but canst not tell whence it cometh and whither it goeth: so is every one that is born of the spirit.—Jesus Christ.

People know more now than gods and blessed saviours knew a few thousand years ago and half-grown children know wherefrom, whereto and why the wind blows. Most of them know that it is composed of expanded matter and the intelligent white ones know there is no such a thing as "spirit."



Geo. H. Danes, of Hazelhurst, Wis., says:

* * * I am glad to get acquainted with you and appreciate your work. * * * I had not intended to subscribe for two reasons. * * * However, I want it and must have it.

We this week place HIGHER SCIENCE on our exchange list. It is published by Franklin H. Heald, Los Angeles, Cal., and we would advise orthodox people, if they wish to remain orthodox, to let it strictly alone.— Arkansaw Traveler.

Lancaster, Ohio—F. H. Heald. My Dear Sir: * * I will have to ask you to discontinue the magazine at present. I like it very much and it is all right, but I am a little short of "In God we trust" (?) just now. * * * If I am here on earth next fall, I will subscribe and read it prayerfully. Thanks for the samples. * * * S. C. FOLGESONG.

Miss L. Wiley, of 4069 Page Boulevard, St. Louis, writes for names of our subscribers in that city, which we gladly send and hope our readers will send her the name and address of any freethinker they know residing there. She says: 1.1

* * * I am trying to form an English-speaking Liberal club. * * * Will you kindly send me the list, that I may invite them to our organizing meetings at my residence? * * *

Moses led the children of Israel into two wildernesses—that of the jungle and that of mythology. They extricated themselves from the jungle in forty years. We are only now getting out of the wilderness of mythology.—God's Defender.

True most of the white males are out already and white females are getting out as fast as they gain intelligence to appreciate the fake.

> Is your spirit ever storm tossed? Fretting like a prisoned dove?

Cast your thoughts towards Christ who uttered

No word save of patient love.

Here is a sample of his words of patient love:

Mark xvi. 16: * * * but he that believeth not shall be damned. (To burn forever in hell.)—Jesus Christ.

C. M. Akers, of Rucker, Tex., writes us a letter that would put a jealous and angry god in a good humor, if there was such a thing, and says:

* * * Seng HIGHER SCIENCE to me regularly. I think it is the best magazine I ever read. * * * Anyone who cannot indorse what F.

H. Heald says, can't stand the truth, and we do not need them in our ranks. There are some people left in this country who think for themselves and I will give you names later on. * * * Success attend you. * * *

S. D. Parrish, the leading attorney of Richmond, Ky., writes as follows, and we do not often get a letter which pleases us better :

* * I have been reading to-day "The Origin of the Brain Force." The mysteries of the more mysterious explanations were made clear (at least clear to me) by the application of your theory of the expansion and contraction of matter. This may sound startling—to me it is—but this is a fact. I now begin to grasp the immensity of your postulation and the force of the logic, that in approaching it, one must abandon the idea of quality. * *

J. C. Robbins, of Ballard, Wash., writes to send signed order for the coming new book and says:

* * * I don't know as a common wage slave should be interested in things celestial. One should have an education to comprehend and enjoy a work of that kind. It is a correct understanding of things terrestrial that at least 80 per cent of our population need. * * *

The man with an education is crammed with what other people think they know, and is not likely to ever be a good thinker. Put your boy in kindergarten, where he is taught to think easily and right, if you want to make a great man out of him.

The editor acknowledges the receipt of a valentine from one of his little 7-year-old Atheist friends. It is home made and original in workmanship, art and literature. It was a piece of white paper folded and cut into a double heart, one being made red and the other blue, with red and blue smoke by a red and blue pencil. On the blank side of the red one is a red rose, and on the other a blue violet, with the following appropriate verse:

> "Roses are red like the cheeks on your head, But violets are blue like the eyes of you."

A peculiar specimen of humanity by the name of C. W. Smiley, of 339 Washington street, Boston, Mass., who makes a great pretense of being a freethinker, writes a vile and insulting letter, couched in the ridiculous Boston know-nothing "nigger-talk," to insult us for telling the truth about (temporary) President (by chance) Roosevelt, and also to insult the memory of that greatest of all Americans, Thos. Paine. Speaking of the Age of Reason, he says in part:

"* * The style of its language was that of the slums, the barroom, the brothels. I do not see that characterizing it as 'filthy' is any error. * * *" There are infidels and infidels; Paine belonged to the variety—whereof America possesses at present one or two shining examples—that apparently esteem a bladder of dirty water the proper weapon with which to assail Christianity.—(Temporary)*Pres.* (by chance) *Roosevelt.*

Certainly no one in his right mind would ever think of touching such a nasty religion, with anything clean, and his suggestion of a bladder, with its contents of "dirty water," is about the proper weapon. However, if HIGHER SCIENCE should suggest this canine method of attack, the magazine would not be allowed to pass through the mail and its editor would again be threatened with two years in the penitentiary, as he was for publishing the article, "God's Big Fight," in April number, 1903.

The Christ story is a 30-page covered pamphlet book by W. J. Dean of Talent, Ore., which effectually shows the fallacy of the story of Jesus Christ. The following is a sample of its effective ridicule:

Certainly heaven cannot be nearer than 100,000,000 miles, for if it were our big telescopes would have located it long ago; but say it is that distance away and Christ traveled at the rate of 1000 miles an hour—and that is about ten times as fast as the best time ever made by any lighning express rain—how long would it take him to get there? Over eleven years.

And yet he and one of the thieves hung with him. took supper there the same night they were hung, and after supper he went to hell, wherever that is, and spent three days and nights.

O. Vogt, of Carson City, Nev., one of our oldest subscribers, writes a most interesting and encouraging letter, of which the following is a part:

* Please send six of the little red books, *Procession of Planets*. I want to do you some good with them. * * * I have been in Arizona for six months and have talked with many people on your theory. I could easily have sold two dozen of the P. of P. for \$1.00 each, but only had my one. A great many were intensely interested. I am going to use these on the most likely ones. * *

these on the most likely ones. * * * * * I like the pamphlet because of its simplicity and its plain American language, avoiding mysterious Latin, and its facts being all material and none spiritual. I believe in it and will never fail to recommend it to fair-minded people who can think. * * * (Almost all "prospectors," miners who hunt for hidden minerals, are good, hard thinkers.—Ed H. 5.)

Bro. Davis of the (*Religco*) Humanitarian Review, of this city, complains, in a long letter to the Blue Grass Blade because the latter does not remember ever having seen the former. Answering the letter, the Blade says:

ANSWER.—Once there was a boy, and a calf run over him, and the boy got up and said "I have no remarks."

Never mind, Bro. Davis, it was two years before the Blade heard of HIGHER SCIENCE, although they received it every

month, took matter from it with due credit, etc. They did not respond to our exchange cross, and as we could not do without it, we simply subscribed and never kicked. Finally a correspondent gave them a good, hard "jacking up" and they made the most profuse and gentlemanly apologies and have since exchanged. Thus you see it is the best policy to be liberal.

Edward E. Gove, of Lawrence, Kan., sends us \$5.00 for a year's subscription and an advertisement to run a year, and, above all else, pays the magazine a high compliment by comparing it to the grand old "*Iron Clad Age.*" We clip the following:

My God-Killing and Priest-Skinning Brother:

Since the dear old "Ironclad Age," of blessed memory, was shipwrecked by the damnable Liberals in '95, I have taken little interest in any of the milk-and-water Free(?) Thought publications, but by some chance, a copy of your magazine of Sept. 1903, came to-day in my mail, and I have devoured it with the greatest relish. Were I a Re-incarnationist, I should half believe you were good old Dr. Monroe re-incarnated.

Inside the magazine, some "totally depraved" pagan, conceived in sin and brought forth in iniquity, had enclosed a most blasphemous petition to our Y. M. C. A. Congressmen to protect our too credulous women by certain legislation against the crimes of priests and parsons. * * * Then you may count on myself and Al. Hetster. We used to go snake killing together, on board the old "Ironclad Age." * *

There has been a great amount of newspaper speculation as to whether or not the late Senator Hanna would have been a candidate for nomination for President. The following letter from Mr. Hanna to the editor, who have been political friends for many years, convinces us that he would not.

UNITED STATES SENATE,

WASHINGTON, D. C., Nov. 20, 1903.

FRANKLIN H. HEALD. Los Angeles, Cal.

My Dear Sir: I am just in receipt of your favor of recent date bearing upon the result of the recent election in Ohio, and thank you for the same. While I am gratified by that element in the result which might be considered a personal vindication, it does not justify the claims of my friends with reference to the suggestion of my nomination for the Presidency. I have no personal ambition to advance and my desire to serve the party constrains me to ask my friends not to place me in the embarrassing position which would result from such a movement. Please believe me to be grateful for and deeply appreciative of the honor and confidence expressed. With thanks and best wishes, I am, truly yours,

M. A. HANNA.

MERETA, TEX., Jan. 19, 1904.

Friend Heald:

I began to think that HIGHER SCIENCE had suspended for good. I would have regretted it very much, and feared that the reason of such was because of the negligence of myself as well as others in paying for it. The last number was forwarded to me, and I am very glad to know that the magazine is still running. I forget just when it was I ordered it sent to me, promising to pay in the future. I send you a money order; please

notify me when any more is due you. I have been re-reading "The Procession of Planets" and have profited by it. I expect to read it again and again before I can hope to fully grasp all contained in so concise a form. The procession theory is undoubtedly true. It is as beautiful as simple when so clearly presented. It is a great wonder that those far-seeing scientists of the last century did not dis-cover this law. The theory is founded upon basic facts long admitted by many great scientists to be true. It clearly sets forth the fact that the sun is the source of all contained in our solar system; that matter cannot be created or destroyed, increased or diminished. That matter and force are inseparably bound together. One does not exist without the other, as ably inseparably bound together. One does not exist without the other, as ably argued by Bücher and other Materialists. The procession theory is true to the law of the conservation of matter and energy. This theory per-fectly explains how our planets came to be just so in their orbits without any collision, as admitted to be possible and probable by the old theory, before they attained that smooth working order and harmony which we see them with to-day, to which Theists point as the wonderful design of their still more wonderfully great Jumbo who was not created or designed. What again the structure than the law of heat and growing? What also

What could be more true than the law of heat and gravity? What else could this heated matter do but keep on expanding into space until it reached a region cold enough to be crystallized, and where the force of gravity would over-balance that of the heat and so start the matter on its homeward journey once more? This in endless succession forever. The great parent, the sun, continually replenishing itself from the dead and bursted worlds and their scattered debris, and can never become extinct.

Is it any wonder that some of the ancients personified the sun and worshiped it? Such a worship was more rational than all the supernatural religions since existing. For is not the sun the source of all life and all that appertains to life? But away with mystery. It explains nothing, and profits nothing, except to fakirs and deceivers. We absolutely need no god with his hocus pocus, or any of his hybrid mediators. We need not grovel in fear of the great invisible scare-crow which the morbid imaggrovel in tear of the great invision scale close that is, pay it to those inations of our ancestors erected, or pay it tribute; that is, pay it to those internations who obtain their living under false pretenses. Yours fra-J. M. GILBERT. ternally.

Korum-"I will cast a dread into the hearts of the unbelievers. Therefore strike off their heads, and strike off all the the torment of hell fire."-God.

J. N. Austin, of Holdridge, Neb., writes in part:

"Please find \$1.00 inclosed. I am taking more than I can read, but your magazine is too good to let pass. I hope it may live for ever." .

Otis White, of Salida, Col., speaking of the Magazine, writes, December 19:

"December No. just received. I am lost without I take B. G. Blade and the Pink Iconoclast, but HIGHER it. SCIENCE treats on the planetary system in a way that I like. . . Inclosed find 25c for Procession of Planets. Hoping you will be of good cheer and HIGHER SCIENCE will succeed.

Mrs. S. E. Farris, of Wynne, Ark., gives us the following good cheer:

When women learn that children should be born of love, and not for the purpose of making votes for the crafty politicians, or for increasing church revenues, and when men select wives for the purpose of a loving and refined companionship, instead of the sole purpose of propagating their own kind, then the necessity for jails, asylums and churches will be less, and the priests will have to go to work to earn an honest living. Then, and not till then, will future generations be intelligent and happy, healthy and beautiful.—Mrs. C. S. Serl in Clinic.

Geo. J. Wheeler, of Logan, Utah, writes:

. . . . "I was so surprised today when the P. M. handed me HIGHER SCIENCE that I almost fainted. I must have been dreaming since your last one, and never was so glad to receive it. I thot sure it must be dead, but thanks to its editor and devil that it is alive and better than ever. Don't let it stop coming as long as I live, and will try and not die as long as it comes. . . I will send you a new subscriber, a nice old gentleman. Find amount inclosed." . . .

A small fraction of an ounce of radium, properly employed, would provide a good light sufficient for several rooms, and would not require renewal during the present century.—Los Angeles Times.

The above is very indefinite in about four respects. The small fraction of an ounce; a good light; several rooms, and the final failure of the light are all uncertain quantities. The fact is, we will know more about it later on.

As life is centered in the human heart and life is spirit and the spirit God, Webster proved to all intelligent and moral minds that religion must emanate from the heart as it is the seat of God within you, and any place but a well balanced place would not be tenable to God, as it would make *him* unbalanced. God is not in your brains, friends, as a cunning brain is a man's production, it has no balance as the heart has.—*Christian Wisdom*.

It may be christian wisdom, but there is certainly

no horse-sense in it. Of course, we must admit that brains are not the production of god. He never had any himself and neither did his wise men, saints, saviors or virgins. All they knew was to steal, kill, rob, lie and commit adultery. It was "a wise child that knew his own parent" in those days.

SEND TEN CENTS to this office for a blank petition asking Congress to pass such law or laws for the protection of women as will compel all ministers of the gospels and priests of all religions practiced in the United States, to be or become unics before entering such profession. If you do not realize the necessity of such a law, read "The Crimes of Preachers," price 25 cents. Every active Freethinker in the United States should send for \$1.00 worth of these blanks, and thed should be signed by forty million citizens, male any female, including every honest and consistent minister and priest. One blank, 10 cents; three for 25 cents; seven for 50 cents, or sixteen for \$1.00.

Prayer is a breath of fresh air—much else, of course, but certainly this. It is inspiration on a hilltop for new toiling on the plain. . . .

Yet the question is reiterated in various ways as, for instance: If one no longer believes in a personal God why should he, or how can he, pray? why should he give the matter any attention whatever?

Now man has always felt the need of prayer, and we find the instinct working itself out in one form or another in all climes and races, as far back as we have any records.—*Mind.*

True, air is all there is to it but we can get more benefit from it by going thru the deep breathing process. The further back we go in history, the more ignorance and more prayer "instinct" we find. The warmer the clime and the blacker the race, the more of fear and instinct for prayer.

The Buffalo Express, November 5th, gives Prof. Alex. Young's new theory of the sun being inhabited by a crowd of godlike beings and other things which he has discovered (?) with his new Solarscope. Amongst

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other things which he makes known is the following. "The sun is the Lord's grand central dynamo station for the universe; other planets are the substations, deriving their electrical energy from the solar source of supply."....

When a man seriously refers to "the Lord" in connection with astronomy, he simply convicts himself of either insanity or idiocy. This old lord-god that he refers to, is supposed to have made the earth and universe in six days and never could or can understand that it is round. How could our sun be the center dynamo for the unnumbered millions of others; some of which would fill Neptunes orbit, or nearly 6,000,000,000 miles in diameter.

Healing Thoughts is the name of the new 16 page booklet by C. W. Close, Ph. D., Bangor, Me., (10c). We that HIGHER SCIENCE had knocked all the "spirit," "soul," etc. out of Bro. Close, but he comes up smiling and says:

comes up smiling and says: "Everything in existance is composed of Spirit, soul, and body, or substonce, ideal individuality, and its physical expression."

He asks what relation the soul is to the body, ond answering, makes it the parent instead of the adopted daughter. On the whole we can recommend this little book as a jewel to compel thot, even tho we can not imagine a soul, spirit or formative idea, or anything else which is neither matter or its motion.

N. B. D You can make life much easier for HIGHER SCIENCE, if you will spare a moment and drop us a postal card. If you have received more than one number as sample you have been recommended to us as a free thinker who is all right,—by a friend who knows you. Now if you would like to have it continued let us know and pay when convenient. If you do not want it at all, please ask your P.M. to notify us and greatly oblige. If you will only take this little trouble it will be a great help.

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