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HIGHER SCIENCE



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

JANUARY, 1907

FRANKLIN H. HEALD
EDITOR AND PROPRIETOR
LOS ANGELES, CAL.

ISSUED MONTHLY

Single Copies 10 cents

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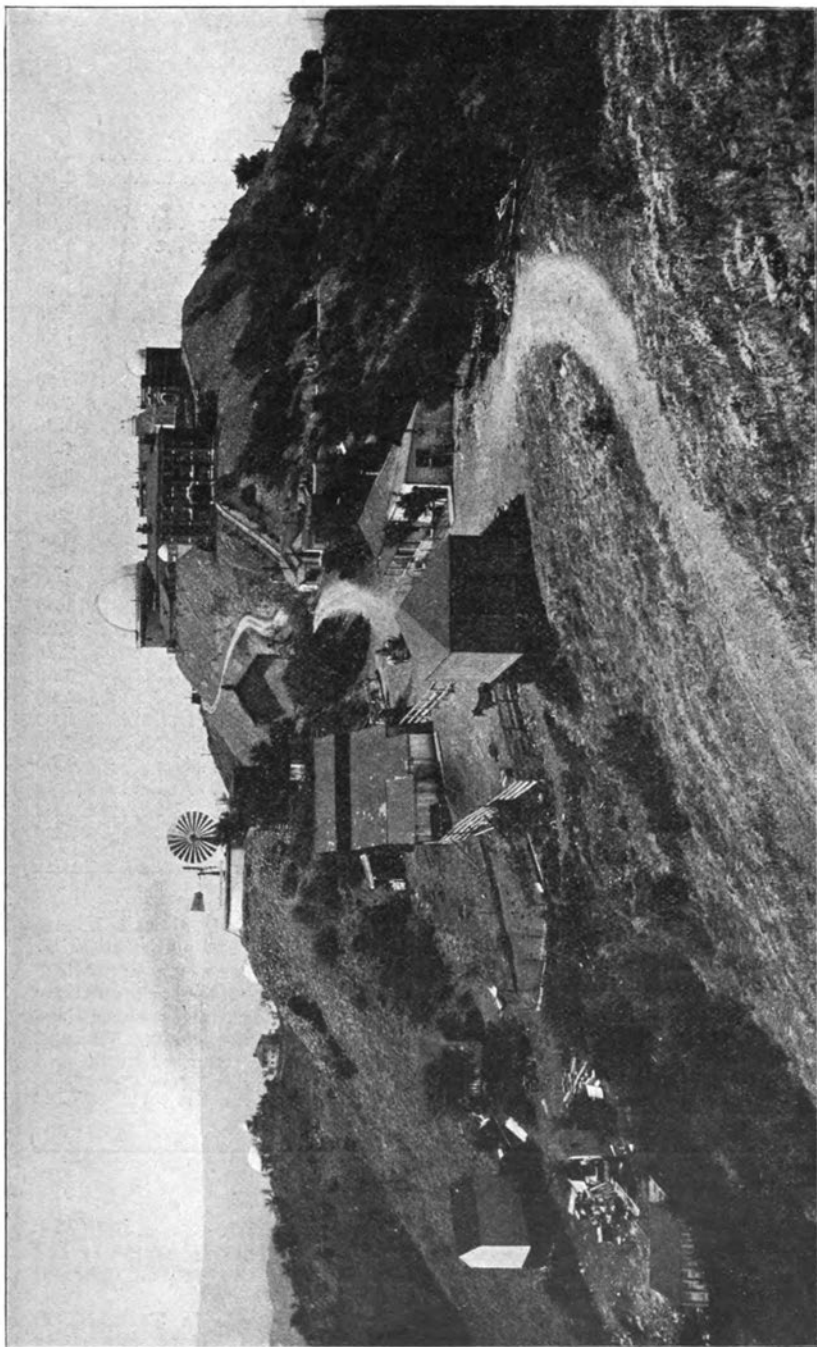
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STURGIS.



H ome of Lick Telescope on Mt. Hamilton near San Jose, Cal., which is at present the greatest Telescope in the world. See page 7.

HIGHER SCIENCE

OF THE MOTION OF MATTER

ISSUED MONTHLY
AT COR. AMBELL AND DAYTON AVE.

FRANKLIN H. HEALD
EDITOR AND PROPRIETOR

Entered at the postoffice at Los Angeles as second class mail matter

VOL. VII

LOS ANGELES, CAL., JANUARY, 1907

NO. I.

OUR BINARY COMPANION.

One of the great mysteries of astronomy has been to know where our sun is traveling to thru space. I have seen all kinds of theories and guesses. Many writers have not even dared to speculate upon the subject for fear of being made the butt of a joke. It has been known for many years that the sun is not stationary, but is traveling thru space, and within the last few decades its speed has been more or less accurately fixed at 45,000 miles per hour and its general direction established; but most astronomers still imagine that it is making a straight course thru space and that there is apparently no reason why it should not at some future time meet some other sun, which is making the same kind of an apparently aimless journey, and that at such a time there will, no doubt be a great catastrophe, probably something which would compare favorably with Dante's Hell. However, when we analyze the sun's motion and journey by the simple theory of a procession of planets we find it can do but one thing which the law compells it to do and it is absolutely impossible for it to do anything else. If it is moving, then it is falling. If it is falling, it is falling toward the nearest sun, which is *Alpha Centura*, and must be falling in a decreasing orbit around that star. Now, inasmuch as *Alpha Centura* cannot be stationary any more than our sun can, it must also be falling around *Sol*, and also in an orbit which forms what is called a Binary System of Suns, the laws of which have been thoroughly established to be, that the motion of each is preformed in an ellipse, which contains the center of gravity of the two suns in its focus. If there are more than two, or if there are two pairs, the motions are still more complicated and require the mathematical ability of skilled mathematicians to unravel—men who possibly would be entirely unfit for any other duty in life. That our sun and *Alpha Centura* are falling in orbits around and to this *focus* where they must sometime meet, must not be denied by men who expect to occupy a place of usefulness to science. Every step we take in analyzing the natural motions of matter and celestial bodies establishes the truth more and more firmly that all matter in space is falling in orbits around something else and gradually increasing its speed as it falls and approaches it. Then there must be an opposite force to separate them, because they can not always remain falling tow-

ards each other and gaining speed. This opposite force is the very force in nature which has baffled science so many centuries and is the simple fact and force of expansion or swelling of matter by heat. In most cases this enlarging occurs in nature by matter expanding into invisible gas and we therefore lose sight of it until it re-forms in the remote regions above its center again and begins to fall in its return journey. We have but one example of the separation of two great suns of a Binary System and that is hardly understood as yet by science because it is the only example since the great Lick Telescope has been on duty. I refer to the new star in the constellation of Perseus which made its appearance about four years ago. Considering all the truths known in that notable example, by the laws of the procession, the whole process dissolves into a simple solution of the separation of two suns (and their respective solar systems) which had fallen to the focus of their orbits. They had gained such lightning speed (force) in falling that, when they came in contact, rolling around each other in their fearful vortex, that the heat they developed in a few days made a star that could be seen as a bright star at the earth, thru the uncountable billions of miles of space between. The photographs taken of it from day to day recorded the fact that two principal centers began to leave each other in orbits and in a few months they were billions of miles apart. They had not separated in straight lines because they could not. They fell around each other and when the great heat came which their falling force generated and left them no gravity for each other, their expanding heat and their immense speed in orbits threw them apart by centrifugal force just as a comet is thrown up **again from the sun, after making its perihelion curve.** These two binary suns in *Perseus* did the only thing that it was possible for them to do, according to the theory of a procession of planets, which procession must apply to all matter. They may still be leaving each other but more and more slowly and by the time that **they reach their farthest separation which must be the same number of billions of years which it will require for them to fall back,** they will have accumulated enough of their following nebulous matter to make each a sun and begin the procession of each a solar system. These two systems must revolve on the same plane which must be the same plane upon which the stars recede from and approach each other, and the great new telescopes which are coming must show that the plane of the equator of *Alpha Centauri* and the plane of Sol's equator are the same, because they came from the common focus, where they met, on that plane and must fall back to the same center on the same plane because it is the only thing they can do.

Modern Science, in its application, is the only true savior of mankind.—Blue Grass Blade.

THE INCREASE OF KNOWLEDGE.

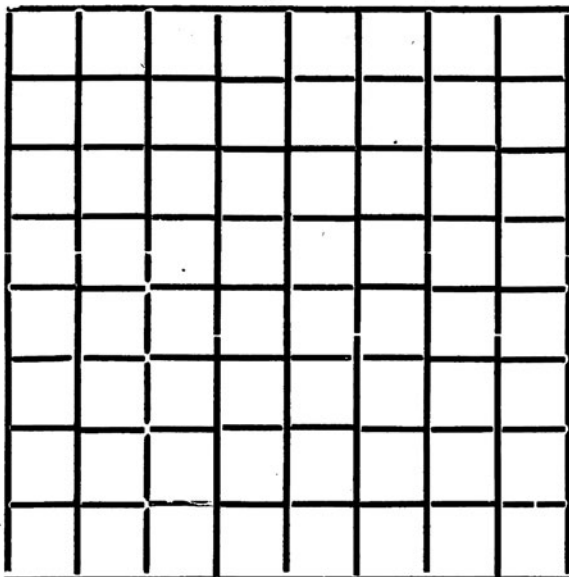
The greatest telescope in the world is now in the observatory at Mt. Hamilton, this State, and is 36 inches in diameter. It was a great achievement over its predecessors and has revealed and contributed many startling facts to science. What is revealed in the heavens helps us to solve nature's apparent mysteries on our own home planet, the earth, making astronomy the greatest field for investigation. There is, however, a telescope almost ready for use at the Mt. Wilson peak, near Pasadena, this State, which is almost twice as great in diameter, or four times as great in reality, which will increase our knowledge four times, or multiply it by four. You will understand this by the following diagram; in order to make the comparison more easy to understand, we will suppose the lens to be square instead of round, and suppose the Mt. Hamilton glass to be thirty inches in diameter and the Mt. Wilson glass to be sixty inches, or twice as large in diameter, then they would compare, as in the figure, the small squares representing four Mt. Hamilton glasses, which would be required to make one



Mt. Wilson glass; or, that it would require four Mt. Hamilton glasses to receive as much diffused light as one Mt. Wilson glass receives and concentrates to the pupil of the human eye. In effect, the Mt. Wilson glass will bring the human eye nearer in that proportion, to the celestial bodies. To illustrate, we are 240,000 miles distant from the moon with the human eye and the Mt. Hamilton telescope places our eye, in effect, within 240 miles of the moon. That is to say, we can see the moon with the glass as plain as if our eye were only 240 miles from the moon. Now, it is plain that the Mt. Wilson glass concentrates four times as much light and the distance will be reduced three-fourths and we can see the moon as plain as if we were within 60 miles of it. Only astronomers can fully realize the importance of the difference which this increase in the size of telescopes will increase our knowledge of celestial bodies.

Now, this is not to be the end of our increase of knowledge of celestial bodies, inasmuch as a wealthy gentleman of Los Angeles, Mr. Hooker, who is deeply interested in astronomy and science, has contributed the necessary funds to build a glass almost double the diameter of the Mt. Wilson glass, or four times its size, which, if it were exactly twice the diameter, would again decrease the distance to the moon three-fourths, or place the human eye with-

in fifteen miles of the moon, in effect. This great glass is now being made, and it is hoped that within three years it will be in place and doing duty on Mt. Wilson. Nor, is this the end of our increase of knowledge of the worlds and the suns around us. An inventor has discovered the secret by which he can make a lens twice as large in diameter as the Hooker glass is to be. This great lens is to be glass only on the outside surface, and to be filled with liquid after it is in place. This glass will reduce the



One square represents the capacity of the Mt. Hamilton glass; four squares the Mt. Wilson glass; Sixteen the Hooker glass and sixty-four the liquid glass.

distance again three-fourths, or, to within three and three-quarter miles of the moon. By taking a photograph thru such a glass, and then magnifying the photograph under a microscope, you can readily see that we can examine the moon as minutely as if we were there, with our hands and feet tied, so that we could not use a hammer or spade. This will, undoubtedly, enable us to tell whether or not there is animal or plant life on our satellite, and if not, whether or not there ever has been. If there has been, we can, no doubt, obtain views enough of fossils or carcass remains, to judge of the kinds and sizes. Such glasses and methods which we will discover to magnify the photographs will undoubtedly reveal to us the solar systems of our nearest neighboring suns, and establish beyond doubt that there is a procession of planets to every sun in the universe and that suns fall to each other and separate by heat and centrifugal force, exactly as reason shows us they must do. Untold other billions of suns will be brought into view from incomputable distances, until there is no more space between them to see others beyond; and yet we will find no god, except

matter and its motions, forced to follow the line of least resistance, and if all these innumerable worlds should ever fall into one place or center, we can be sure that in so doing, they would develop sufficient heat and centrifugal force to separate them again to the same distances, the same weights and with the same individual motions which they had before.

What is true of our increase of knowledge in astronomy, is undoubtedly true in every branch of science. We must first get rid of the animal fear or superstition that there is a great monster jealous and angry god, who is overseeing all the forces of nature, and lose the fear of investigation as taught by the leading religions. Inasmuch as most religious superstitions have had their origin in what was then the mysteries of the movements of celestial bodies, it is incumbent on astronomy to take the lead in removing these fears and superstitions which it is doing rapidly and with the least possible resistance.

TRIAL MARRIAGES

By Channing Severance

It has been noticed that the clergy do not approve of trial marriages, but it was hardly to be expected that they would, for if any one can point to a time or place when they ever took the lead in progressive movements and were not found advocating repression and conservatism, the information will be gladly received. The idea has lingered in the heads of humanity long enough, that marriage is a sacrament or an institution more divine—whatever that means—than any other, for there is nothing in it. Marriage is the natural relation of the sexes under some form of law, and has for its object the establishment of the home—the dearest spot on earth—the perpetuation of the race, agreeable companionship, mutual benefit and happiness. Neither civil or religious ceremonies can truly marry people, for that union of head and heart and soul which must exist or prove a failure, is the work of nature, and if she places her stamp of disapproval on the union of any man and woman it will prove disastrous to ignore it. As a rule men and women marry young and, being inexperienced, the young make many mistakes very easily. That a mistake made in marriage should curse their lives until the grave ends it, is an idea so cruel and repulsive that common sense repudiates it instantly. A glamor of sentiment and sacredness cannot be made to hover around the marriage relations of a man and woman who hate each other, or feel an intollerable aversion in their companionship. If marriage, which brings close and intimate knowledge of each other—which courtship generally conceals—reveals the fact that certain persons can no more live together without eternal friction, discord and repugnance, then certain chemicals can be mixed without an explosion; then any law, social custom, rule or edict that compels them to, is in direct opposition to the laws of nature, which no one can violate with impunity.

Conditions that annoy, irritate and disgust have their influence on health; and mental tranquility is the basis of comfort and happiness. A matrimonial hell is worse than death, for it destroys hope, kills ambition and the very love of life itself. So, notwithstanding the pain occasioned by being compelled to disagree with the clergy, I would say that where any marriage has proved a failure, from the standpoint of health and happiness, it should be nullified by the courts on demand of either party, and as quickly and easily as the invisible knot was tied. No other view can be taken of the subject by reason, and that person who is not living by the light of reason is either a clergyman or a chump. To declare that life-long bondage in a mismated marriage, is a desirable thing for society or the individual, is to write "ass" on your forehead and reveal the fact that the preachers and the priests control your thinker. No man with a spoonful of brains will continue to make a mistake in his business affairs after he has discovered it, but one made in marriage is supposed to be a desirable thing to perpetuate, by those who get their thoughts second hand and have not acquired the habit of independent thinking. What some dead Jew thot thousands of years ago when the race was little better than barbarians, the stagnant section of society thinks should govern us now; but live ideas have a preference with all who know the value of liberty and demand their share. The conditions which the clergy wish to perpetuate have had a long trial, and they fail to meet the need of human requirements; therefore, it is time to try something else, and more liberal divorce laws are needed instead, or greater restrictions, and the signs of the times are that the clergy will be compelled to move along with the procession instead of holding it back as they have always tried to. The value and necessity of liberty in connection with human happiness is becoming too well known to give it up, and we are going to have more instead of less, for progress is the moving principle in the world today and its momentum is increasing so rapidly, the bible worshipper who tries to stop it will be subject to the same disappointment experienced by the male cow when he tried to stop the locomotive.

Either divorces will be readily granted in the near future, or marriages will decrease in number as is the case in Europe today, for by one way or the other men and women will escape sex unions that not only destroy their happiness but give to society vicious and undesirable offspring.

IS BUDDHISM RELIGION?

West Hoboken, N. J., Nov. 30, 1906.

Dear Mr. Heald:—In answer to the article "The Power of Thot," a certain passage on page 134, November, 1906, issue, "Every religion on the globe is the enemy of free thot," etc. I would say that the statement is rather sweeping. Buddha's re-

ligion can, indeed, not be included in this assertion. Buddhism has no god, has no soul, as entities. Buddha has taught a religion of enlightenment, and says: "I do not want you to believe because I said so, but investigate, you yourself, use your five senses and whatever they verify, do and do that by all means." There is no dogma, no tenet, but free research and true science physically and morally. For instance, you are a true Buddhist according to Buddha's own words. You search for truth, you want truth to be victorious—that is Buddhism. There is no salvation of an ego, but a salvation of humanity from ignorance. Ignorance is the root of all evil, of all superstition, and Buddha's mission was and is to enlighten. That there are superstitions in Buddhistic lands does not affect Buddha's teachings, for such things are all over where there is a priestcraft always willing to put a chain to thot and extort people to their own heart's content. The priest is, indeed, a reactionary of the vilest kind—a beguiling hypocrite, a false prophet—but Buddha as a moral teacher of cause and effect stands high above that crowd. Any passage in the Tripitika will convince you of the fact. Since your HIGHER SCIENCE is for truth please publish this note in the name of truth.

Yours for free thot, WM. MEYER, M. D.

DAVE'S LETTER TO GOD

January 1, E. M., 307.

My dear heavenly father—I expect you have been so busy answering prayers that you cannot get time to answer my letter, so I will just write again to jog you up. Papa and I were figuring up how much noise all the prayers would make every day if they were all heard in one place, and we think they would move a small mountain sure enuf. We pity you if there are many such loud prayers as the holy rollers that were here last. I suppose you have a pretty busy day Sunday's answering prayers and especially in hot weather, with hell in plain sight. Do you ever get rattled when some of the neighbors pray for rain and some for dry weather? I would pray more myself, but I am sure you must be nearly tired out listening to the others who are truly good, so, I hope you will think all the more of me for it. If your head aches listening to them, just soak your feet in hot water and take a toddy, then go to bed. I wish I liked you as well as I do papa and brother and was not all the time afraid that you would get jealous and angry and kill a lot of us, like you used to. If you would go around Wednesday and Saturday nights a killing of the first born, it would take me sure unless we knew about it so as to sprinkle goat's blood on the door post. I wonder if the blood of a rat would do, as there is only one goat near where we live and I would rather have my brains knocked out on the door post at night by a jealous and angry god, for Jesus' sake, than to take any chances with that old fool of a billy. He has no sense at all and never knows when to let up. I don't believe he would stop when

he had killed the first born but would murder the hole family and then eat their clothes off of them. Can you see hell as plain as if you were there? Is it true that hell is gradually cooling off? Can you hear them holler, or can you just see their mouths open and shut? Is it glass or ice or water, between your place and hell? My patience, I would hate to see them burn. Does it ever make you sick at the stumache? As ever,

DAVE.

SUGGESTION FOR A SCIENCE SUNDAY SCHOOL LESSON

Did Jesus Christ die that I might live?

No; he never lived at all, and therefore could not die.

Who did die that I might live?

Eighty of your little brothers and sisters.

Did they die on a cross?

No.

How, then, did they die?

They were eaten—devoured.

Who devoured them?

You did.

Did I commit any great sin against any jealous and angry god or gods?

No; because it is nature's way of preserving the fittest.

Do you think it is obscene to study these things in school?

No; it only seems obscene to low and ignorant people who are nasty-minded, like Anthony Comstock.

Should Anthony Comstock be burned to death with green wood?

No; he should be put in an asylum, where he could be kept from doing harm to society until he could be taught the scientific principles of life.

REPORT OF THE W. I. S. CLUB

DECEMBER MEETING.

Opening exercises: Singing, new song, "The Good Times Are Coming." Tune, "The Old Oaken Bucket."

Correspondence read and reported. It was suggested by Chicago Local that we have the Nine Demands of Femininism, together with the Nine Demands of Liberalism, printed on folio cards and placed in all public places where least resistance by the forces of ignorance will make it possible.

The next work on the program is, Organization of a Sunday School of Science for teaching scientific morality to little children, and it was voted that December report contain the following:

ANNOUNCEMENT.

At the Cliff Dweller's Place, to begin in January, Era of Man, 307 (1907), the first Sunday School in the world that will teach

the actual facts about creation, and outline the true principles of scientific morality without any religion, superstition or politics included. Work will begin (after preliminary facts concerning the causes of the "fall of nations,") with demonstrated facts about the creation of worlds. This will be followed with a general outlining of social conditions—and their causes—up thru the Dark Ages of the 'vilization (civilization) on to the Age of Mechanical Invention, which, by spreading the light of understanding (science) finally woke woman to the true cause of her enslavement (tribal wars) and which is shortly to usher in the Bright Ages of Humanitarianism or, perfection of human species thru scientific education of the virgins (mothers to be) in the knowledge of good and evil, which was taken from them by the fierce hatred that resulted from tribal wars.

General principles of scientific government will be taken up incidentally all thru the work, and compared with the unscientific makeshift for government called capitalism.

But one class will be taught at first, and will include children between the ages of seven and fourteen. Charts and pictures showing astronomical, historical, physiological and sociological facts will be used to illustrate lessons. Outline of lessons will be made on mimeograph for use by students or examination by co-operators.

Co-operation in leadership is cordially solicited from all Free-thot and Socialistic friends in the way of advice, criticism, suggestion or donations—books, charts, pictures, material for scientific experiments, etc—for the school library.

When writing for further information or copies of mimeographic lesson circulars, do not forget to enclose stamps for "postage and packing" as "the minister's" have no salary or divine rights to steal from their neighbors.

A photograph of the infant class is contemplated as an Easter offering to "God," the good spirit in all friends co-operating to secure rights of humanhood and childhood.

Meeting adjourned by singing: "Ring the Bells of Science, Boys." Tune "Marching Thru Georgia."

MRS. ANNA EHRENBURG,

Secretary W. I. S. C., 210 Winston street, Los Angeles, Calif.

SEND FOR IT NOW

The Arkansaw Traveler has published the entire Snow-Wilkinson debate upon the Bible and will soon have it ready in pamphlet form. It is very interesting to read the bickering and dodging of the holy (?) man of god and how our Atheist friend, Mr. Snow, literally knocks the sawdust stuffing out of him every round. Every reader of HIGHER SCIENCE should write to James E. Mizzle, New Hope, Ark., for price, which will be as low as possible.



COMMENTS



So many complimentary letters are coming in regard to the new book that it will not be possible to publish them.

The great bargain of a house and lot which we advertised in December magazine did not last long. Wish there were more as cheap for those who were too late for this snap.

Now is the time when visitors crowd the sidewalks so that citizens can scarcely pass up and down the principal streets. Lame men with canes are at a great discount, but pigeons with wings are at a premium and have the right of way above the trolley wires.

Los Angeles has reclaimed herself at last by electing an honest man for the office of mayor. While Arthur Harper will not be able to absolutely kick the Owens River water (?) steal scheme out into the back yard, he can and will give honest men a chance to be heard.

It is a caution how our friends answer to an advertisement in HIGHER SCIENCE. Last month we advertised the holy (?) bible for \$1.00 and have received \$22.00 up to date for a book which they could buy any place else for 10 cents. The trap was set for the truly goody-goody class of W. C. T. U. women, who keep Chinamen chambermaids, and for Catholic P. O. inspectors, but it also caught a number of our good Atheist friends, whose names shall be sacred and whose money is returned in every case, with apologies.

Some enemy of HIGHER SCIENCE has had a dog paper sent to the editor and the dog editor says he understands that I am very fond of good dogs, and of course recommends his variety. The truth is, I am fond of good dogs, but believe that they are like good Indians—i. e., dead. I have made a number of meals on dead dogs with the Indians and cannot say that I am especially fond of them for a regular diet, but I would rather eat two dead ones, than live with a live one. This editor of *Dogdom* offers to fill my office with handsome dog pictures, but I think I will decline, as I have some pictures of my little grand children to fill the vacant places. My mother's picture is the emblem of Fidelity at my castle, therefore I have no use for dogs. Of course dog pictures do not smell so bad as dogs, and yet they often call up buried memories with almost lifelike precision.

WANTED—All readers of HIGHER SCIENCE, who know that god is a myth, to unite with the Church of Humanity and become charter members before it is incorporated. For full particulars address, W. H. KERR, Great Bend, Kansas.

Last month *Our Dumb Animals* had a picture of Jesus Christ riding into Jerusalem on a she burro. There is quite a crowd of good-looking Marthas and Marys making goo-goo eyes at him, and a half dozen partly-dressed children going into extacies and scattering roses, as if they were welcoming their long-lost papa. The she mule and the few saints in sight look anything but pleasant, and evidently "have it in for him." The rear end of a dog shows in one place, which is very appropriate. In the air above him are hovering a number of pigeons and there is some white stuff on his head which the artist does not explain. Evidently there was no anti-pigeon ordinance in Jerusalem at that time, on account of the half-civilized condition of the inhabitants. On the whole, it is a fair representation of the slavery and abandon of women.

There are some things in the bible which indicates that our dear-heavenly-father is a culed puson.

Amos. V. 17. And in all vinyards shall be wailing: for I will pass through thee. Woe unto you that desire the day of the Lord! To what end is it for you? The day of the Lord is darkness and not light. As if a man did flee from a lion and a bear met him; or went into a house leaned his hand on the wall, and a serpent bit him. I hate, I despise your feast days, and I will not smell in your solemn assemblies.—God.

U. W. Boyer, one of our Denver subscribers, when sending his subscription, says:

. . . . You are O. K. on religion. Give it to them by the whole sale. Religion, no matter by what name it is called, is the greatest curse of mankind. . . .

In no part of the world do figs attain greater perfection of size and flavor than at the oasis of Palm Springs, in the Colorado desert of Southern California. They ripen earlier than elsewhere, and the hundreds of boxes of this fruit sent out annually by whites and Indians, are eagerly sought at fancy prices. Persian and Egyptian dates are grown here, where the climate is almost a duplicate of that in their natural habitat. Oranges, lemons, peaches, plums, grapes, melons, vegetables and profusions of beautiful flowers grow luxuriantly. A graceful desert willow circles velvet meadows where scores of cattle browse.—The Travel Magazine.

Walter Collins, of Los Angeles' Liberal Club, says:

. . . . "Procession of Planets" is all right and its truths will stand the test and be appreciated after you are dead. . . .

The man who is wizard enough to improve upon the work of the almighty by creating a cactus without a spine, excites my admiration. He certainly deserves economies that will ring down through the ages proclaiming him a most promising pupil of the master artist, God.—Mountain Pine.

How would it do for his ignorant old Jew god to take a few lessons from our friend Luther Burbank? Perhaps he could make a better world next time and know what shape it was when he had it made.

Dr. Esther A. Van Riper, who has one of the \$25 "Procission of Planets," says of it:

. . . . It came all right and the mail carrier brought it down to the house christmas day (which is, as you say, the beginning of the new year.) My son, who has been in the employ of Rand, McNally & Co., etc., says he has seen and helped bind many handsome books, but never so handsome a one as this leather-covered one, carved by the Spaniard. .

S. F. Weaver, of Hilmoe, S. Dakota, says:

The Jews never were in Egypt, for there is no Egyptian word in the Hebrew language and no Hebrew word in the Egyptian language—a thing impossible if the two nations had lived mixed a single year.

I am ready to admit that I have never been a Christian to the extent of hating my father, mother, brothers and sisters, but if these conditions are to be made the supreme test, I feel sure but few Christians exist nowadays. My father, one of the best of men, died about 12 years ago firmly believing that he was a Christian, but my mother, four brothers, three sisters and myself have since outgrown the narrow creeds of the Christian religion.—Arkansas Traveler.

Three cheers for the good hard Mizzles sense, and let us hope that it will extend its influence thru all the breadth of the state which they honor with their citizenship.

James Geddes of Spokane, Wash., writes, to send a clipping from the Evening Chronicle, in which a preacher, who sees things for christ's sake and lies for the glory of god, gets off a lot of his by-god lies about our Los Angeles gang of Holy Rollers, who have been making so much pretense of speaking in foreign tongues, this summer, down on San Pedro street. Mr. Geddes says:

* * * I wish to have you give me a true account of it, for I am not able to believe it. If it is as Mr. Morse stated, you have had a wonderful transaction in your city * * *

No wonder he can't believe it. It is a case where even hearing them jabber and seeing them roll "is not believing." This fellow, Rev. E. B. Morse, says:

* * * I found people from all classes that had received these gifts * * * They all glorify God in their testimony. People at these meet-

ings are saved, sanctified, healed of their diseases and Devils are cast away * * *

He does not say where these devils went to, but, no doubt, to the city hall.

Will some honest Atheist, Freethinker, Liberal or Spiritualist who has \$250 to invest in a speculation with great possibilities let me hear from you at once—or five persons might put in \$50 each.

In sending his annual subscription for the magazine, Wm. Lego, of Bellingham, Wash., says:

. . . . Wishing you best of success, as your Atheistic ideas suit me the very best kind. . . .

Thos. Park, of Corona, Cal., an old Elsinore friend of the editor, says of the new book:

. . . . It is wonderful how much more simple the universe works than it did when god and Joshua and all the old bible fellows were running it by chance, just as it happened to occur to them. . . .

Dr. T. Morris, of Columbus, Ohio, says, when subscribing for HIGHER SCIENCE and the new book:

. . . . I happened on to the last October number and it is full of good, red-hot goods, and strikes me just where I live, so I must have more of it. . . .

J. M. Gilbert, of Randolph, Tex., says of the new book:

. . . . It has just arrived. I have not had time to but glance at it, but can see that it is immense. Wish every Freethinker in the world could have it for a two-edged sword to slay superstition. . . .

* * * When it suits the purpose of capitalism to enter into the business of Bonanza farming, it will do so. It has an assured market among its own employes. And it can use the same economies in agriculture, that it has used in its trust methods of operating the shop, the factory and the mine. * * * —Cosmic Light.

James Beeson, of Hytop, Alabama, in an interesting letter, says, in part:

* * * I am highly pleased with the work of "Higher Science" and think the work should have commenced sooner. I am now doing and spending all the money I can spare to spread the doctrine of socialism—the only hope of Educating the people for self controll and protection against the thieves in high places. Inclose * * *

There are plenty of people who have the proof that there can be no supreme being in the universe and can explain it satisfactorily to people of intelligence, but what the world needs is a genius who can make it so plain that the great ignorant mass of humanity can understand.

Is. XXVI. 11. They are dead, they shall not live; they are deceased, they shall not rise.—God.

NOTES AND QUERIES—A magazine of Science, Ancient lore, curious history and mathematical propositions. This magazine should be in the hands of all lovers of the quaint and ancient. One dollar per year. C. S. Gould, editor and proprietor, Manchester, N. H.

THE SEARCHLIGHT—A fearless Free Thought magazine. Published monthly, ten cents per copy, one dollar per year. One of the most radical Liberal papers published in the United States. J. D. Shaw, editor and proprietor, Waco, Texas.

N. B.—Mr. Sturgis will start a class in a short time. See or communicate with him for further particulars, prices, etc.

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(I am acquainted with this beautiful, property. It is as represented.—Ed. Higher Science.)

The Latest and Greatest Book

The new book, "The Procession of Planets," is a 200-page book, nice paper, 46 illustrations and large, clear type. It is a theory of the motions of matter and shows how matter operates and moves itself without the assistance of any chance and changing mind. It shows that heating expands matter to great bulks and that cooling contracts it again, so that it falls back in orbits. It shows why planets move and that they could not move if they were not falling. It shows why they fall in orbits. It shows why moons fall around and to their planets; planets around and to their suns, and suns to and around their binary companions. It shows by the distance of planets from the sun and their increasing speed around it, that they are nearing it and must in time fall to it and feed its fires. It shows the same ratio in distance and speed in regard to moons and planets, and also binary systems of suns. It shows and proves the opposite force to gravity to be simply the expanding of matter by heat. It shows that coal and oil are a continuous process, and continually forming, and will last as long as water flows into the seas and lakes. It shows how light, electricity, heat, sound and that travel, and what causes sunspots and different temperatures of the weather.

There is no mysterious language used, no technical terms, and the plain truth is presented without any gods, devils or hells.

It opens up, for the first time in history, at least, a chance for children to be taught the actual truth about what (instead of "who") created and is still creating worlds. While placing them out of all danger of ever becoming victimized by fears of a superstitious past false teaching, it also leads them into a study of cause and effect, and how force follows the lines of least resistance.

Any bright boy or girl of fourteen years can be shown from this book, without apparatus, how worlds are formed and re-formed by the simple process of heating and cooling of matter; and since the proof is self-evident, there can be no doubt that the procession of planets, to and from the sun centers, will be shown to coming generations in their kindergarten work and lessons. The new telescopes, now in process of construction, will so plainly show and prove the processional theory, that it will, undoubtedly, be taught in the public schools in the coming generations.

The price of the book, nicely bound in cloth, is \$2.50.

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