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HIGHER SCIENCE



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

OCTOBER 1905

FRANKLIN H. HEALD

EDITOR AND PROPRIETOR

LOS ANGELES, CAL.

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ESTHER A. VAN RIVER, M.D.



HIGHER SCIENCE

OF THE MOTION OF MATTER

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FRANKLIN H. HEALD, Editor and Proprietor

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NO MATTER WITHOUT AN ORBIT

A writer in *Secular Thought*, in figuring on the weather problem and magnetic disturbances, draws some curious conclusions to account for "periods." Amongst others, he says:

* * * The earth, then, as a portion of the solar system, is moving toward the point in space from which the cosmic matter is gathered, and when it meets with and passes through clouds of cosmic matter, the needle will be disturbed. If there is more matter passing us at periods of ten or twelve years than at other times, we shall get a larger number of magnetic disturbances than at other times; and *this is the case*. At periods of about eleven or twelve years we get a plus of magnetic disturbance. * * *

The writer evidently thinks, as many other writers, that matter is traveling at random thru the universe, whereas it is traveling in regular orbits as it is forced to travel by falling to its nearest center. If there is a belt of meteors passing around the moon in an orbit, they will never be permitted to escape from its gravity "pull" except those which are far enough from it to be attracted to the earth when they are between the earth and moon. If they are in an orbit passing around the earth (as witness the rings of Saturn) they can never get away from its power of gravity unless Mars or Venus should catch some of the outside ones when they are at the nearest point to the earth. For example, this writer finds some connection between Jupiter's time of an orbit and stormy times, and it is possible that a ring or orbit of meteors around Jupiter might be attracted to both the earth and Mars when either is on the same side of the sun with that great planet; but there is no hap-hazard about it, any more than that the planets are not always in the same relation to each other and therefore their "pulls," combined "pulls" and opposite "pulls," or attractions, force different conditions. As an example, let us suppose there is a vast ring of meteors around the sun outside of Mars (asteroids), now suppose Mars, Earth, Venus and our moon

come in a direct line with the sun at the center, we can easily see that such a combined attraction upon a little body like the asteroid Enos would probably bring it tens of thousands of miles towards the earth and possibly within the attraction of the moon or earth, upon which it might sometime fall. As it fell by this combined attraction its speed would increase of course and if not caught by either of the planets whose combined attraction made it fall and they passed out of line its increased centrifugal force would again throw it back almost to the same distance in its old orbit. So we see that there are thousands of combinations which might be made and are made to attract such matter and at irregular periods, inasmuch as the periods at which such combined attractions occur cannot be regular. When leading astronomers, with the best instruments at their command, will test the theory (proven by figures of position and speed of the planets) of a Procession of Planets, and use the same laws regulating their falling in an orbit, upon all other matter, then it will be possible to more nearly estimate results of magnetic and other forces which might affect the weather conditions of the earth. My own idea has been, and is now, that the weather is controlled or effected more by the solid matter which falls into the sun, the explosion of which into gas of tens of thousands of times greater bulk makes the sun spots and increases the force (heat) from the sun eight minutes later or as soon as light can reach us from its happening. That all these forces are identical (in different manifestations) is shown by the fact that the magnetic needle is affected the same instant that light (a motion) reaches us from one of these explosions, and that the heat increases at the same time. "The earth, as a part of the solar system, is moving towards" the nearest sun with its solar system, but in an orbit, and that sun is moving towards us in an orbit and so we are moving around each other in orbits and are a Binary System, which may include other suns with solar systems. Sometime, with the laws of a Procession of Planets, we will be able to determine all these motions (which are forced by gravity or falling) and when we do, we will find there is neither chance, or intent in them, but simply force.

MATTER CHANGES BY LAW

Mrs. Helen Philbrick, of Sabre, Mont., writes:

* * * There are so many lights shining from HIGHER SCIENCE of last month, that I inclose 25c (2-bits) for a few to mark and distribute

to a few friends * * * It seems to me that you contradict your own reasoning on page 118, about mind being so unstable and nature not changing. Nature does change in its expressions, my dear sir, nothing more changeable surely than the mixing of species, etc. * * *

What I meant was that nature or matter is changed, expanded and contracted by law, or without mind to boss its motions. No doubt we will be able later to control the thinking of the mind, by taking the right kind of food, out of which to make motions upon the protoplasm. We can, to a certain extent, do this now. What careful mother does not guard jealously what her child eats upon "Thanksgiving" Day, that its mind does not conjure up night mares to ride and frighten it thru following nights. Many a night has my own mind run riot thru the dark watches, and all caused by too much mince pie, cake or candy, eaten contrary to my own and my cautious little mother's judgment. Then, again, there is the result of drinking whiskey which we know will bring up dangerous and evil spirits, and beasts and serpents so plain in the mind that the eye which is associated with that mind, can actually see them, as I have explained in my friend's experience in Vol. IV, No. 8, page 115. Some of the greatest so-called histories of events were undoubtedly motions of one single mind, caused the same way but by different grades of liquor. For an example, John the revelator, who saw all the bones (in his mind) of all the people who had ever died, come up out of their graves and march to Judgment before a lot of beasts and serpents, or, in fact, before a lot of mixed up parts of animals, eagles and serpents, with their limbs, tails, wings, heads, feathers and hair put together at random, was without doubt the victim of matter over mind. That is to say, if we leave out the awe of religious sacredness (?) and get at the real truth, which the pen picture she painted will prove, we will find that he was simply ending a long term of debauchery. True, it may have been the communion kind of liquor or the blood of Jesus, but liquor made of water for a foundation is the most productive of dangerous and misconstrued creatures, on account of the deadly quality of the drugs required to give the drunken condition to the mind. In the case of Dr. Tanner, who once starved forty days (before he came to Los Angeles to live), there appeared the slow moving, floating forms of beautiful women, with no clothing but wings and hair flowing gently from their heads. Dr. Tanner often lectures to our Libertl Club and he can recall them as plainly now, as when his condition of the lack

of nourishment forced them upon him mind. Thus we see that the mind may be, or really is, to at least some extent, at the mercy of the different kinds of matter taken into the stomach. In a good working condition a normal mind, of course, dictates more or less what ingredients shall enter the stomach, but even then it does not get what it dictates, and then must follow the uncertain motions, perhaps not of chance, but by law, which must force bad and wrong thinking.

"KNOCK THE THIEVES"

If a man comes to my house in the night and with a pistol in my face orders me to throw up my hands and give or allow him to take all I possess, he will surely find that I am a "knocker." I would not only knock him down but I would also knock his brains out. If a band of grafters, boodlers, thieves and tramps, who have no home of their own or property of any kind to be taxed, and this band of non-taxpayers and anarchists undertake to put a mortgage on my little home for millions of dollars, contrary to my wishes, I will also be "a knocker" and a fighter for what I consider my interests and rights and for the interests and rights of my children and grandchildren, and the man who would not is a coward. It makes no difference what politician or bought-up newspaper or thief says "knocker." Let them talk and say "stop thief," and "knocker," in order that they can the better intimidate your vote and rob you, but at the same time remember they are hired to say it. There are thousands of people who know they are to be robbed who are afraid to say what they believe for fear they will be called "a knocker." I have not talked to a single taxpayer of this city about the proposed \$23,000,000.00 bonds, but what knows and says, it is a great boodle scheme and steal, by a lot of ward bosses and ward boss bossers. Now and then a man who is either inexperienced or ignorant, says, "What are we going to do? We must have water." Well, sure enough, what are we going to do? There is no water to spare in the Owens Lake country certainly, and especially during a dry time when we need water the most. There are ruins of old irrigation ditches all around the Owens Lake country for miles and yet every evidence that the whole country is a failure during the dry years, when the people are compelled to get out of that country, and the cattle, horses and other animals die for the lack of feed. This happens when we

need water the most at Los Angeles. How, then, are we going to get water of them at such a time. That is the only time we need it—about two months during the hot months of an extremely dry year or years. At such times there is an ocean of water in the under sands of San Fernando Valley and the other valleys near us; there is an unlimited amount in the desert valleys back of our Sierra Madres which we could tap by a big tunnel for less than one million dollars, and there is the Pacific ocean to feed a well from which we can pump, with cheap oil, during the few months when we are short of water. When we talk of the Owens River scheme we should remember that it would, in the end, amount to \$60,000,000.00, and ruin Los Angeles City. Taxes are high enough now, and Eastern people would not invest or rent if they were raised by a \$60,000,000.00 bonded indebtedness. It is all bosh to say that we must have this water. In the first place, we have oceans of water all around us to spare during ordinary times and oceans to pump from during dry months; and in the second place, we would have no water from Owens River country during these dry months of dry years. Remember the Wright irrigation law and do not forget the great Bear Valley and Sweetwater dams, which were once expected to irrigate all this end of the earth but which were as dry as the desert during dry months of the dry years. Remember Perris, Moreno, Alessandro and Elsinore, which were ruined by bonding for the misty promises and figures of the Bear valley boodlers, when they had millions of water under their own lands which private corporations have taken for other places since. I was a resident of and the principal owner of property in the Elsinore Irrigation (?) District during the temporary Wright Irrigation District craze and was a “knocker” and knocked it out there, saving the country from a tax of 14 per cent on the assessed valuation of the property (as it was bonded at 7 per cent, for twice its assessed value). The cry and howl was, “We must have Bear Valley water at any cost,” and a few leading shysters formed an irrigation district and all the tramps, transients and people who had no tax to pay, voted for it, just as they will do in this \$60,000,000.00 steal. If it carries they hope to get lots of work while the \$60,000,000.00 last, then, when the country is ruined, they can pack their grips and leave the people who own homes to hold the “snipe-sack” and pay the interest on these millions of bonds as long as they live and can raise the money. What does it matter to a tramp how much tax a man has

to pay on his little home. All the tramp has to do is to vote the bonds, get a job on the work and strike for more pay and less hours and fight any honest man who wants to do an honest day's work for reasonable pay. The tramp or other party who owns no property has no right under the constitution of the United States to vote a mortgage upon the property and homes of other people. Bonds are the same as a mortgage and must be secured by the property and must be paid by the owners of the property. What right, then, has a tramp or non-property owner to vote at all in such a matter? A woman may own her little home for her orphaned children and is not allowed a voice in the case of mortgaging her home for its share of \$60,000,000.00, while all the tramps and non-property holders can say whether or not it will be mortgaged. I say that it will not stand the test and bonds voted in that way are not good. Furthermore, no honorable man or a man with a spark of honor will help vote bonds on his neighbor's home if he has no home of his own and does not help to pay the taxes. Gentlemen, don't be afraid to be called "knockers" by hired minions and news (?) papers who are hired to do their part of the boodling and furnish such news (?) as will influence the "suckers" who must be controlled. Look at the condition of our city at the present time—absolutely in the hands of thieves. Why, it takes six men, two of them instrument-men, a whole day to set one stake at the cost of \$32. In all other lines it is about the same, and illustrates what little, men will do when working for the "common weal," compared with what they should do, and what they will do when working on contract or for a contractor who is not working a steal. Let me appeal to all property owners and especially to owners of homes (who will have the burden of bonds) to be careful how you vote bonds and also how you allow tramps and non-property owners to vote bonds or mortgages on your property for you and your children and their children, perhaps, to pay interest on.

THE REASON

At a lecture before the Liberal Club recently, I was asked: "Why are there so few women in the penitentiary compared with men, while the number of the sexes are about equal?" The reason is very simple. It is not because they are so much better, either, but because a woman's "privilege" is so much greater than her

so-called "right." It is almost a miracle if a woman is convicted of murder in the first degree and hanged. Only one woman has ever been hanged by authority in the United States, and that was because she helped conspire to murder a president. It is an adage, and a true one, that when a woman is bad she knows no limit to depravity. I know of a woman who, a few years ago, killed a man in a cold-blooded and brutal manner at San Bernardino. She admitted her guilt and said she was glad of it. She was a bad woman and had a bad reputation, but after a long, expensive trial and no mitigating circumstantial evidence for an excuse, twelve good and true jurymen acquitted her by voting "not guilty." They knew she was guilty, and if she had been a man they would not have left their jury box to have found her guilty of murder in the first degree. But, as she was a woman, with a woman's privilege and no "rights" to vote, make law or hold office, she was allowed to escape justice. Women are allowed these privileges because they cannot comprehend justice like men and the reason of that condition is that the majority of their brains are in the back of their heads, which is the region of sympathy and the qualities of good motherhood. For my own part, I would not have them hanged if I could. I would not put their brains in the front part of their heads and make them just instead of sympathetic. I would not make them men by robbing them of that lovable quality of motherhood, which will cause them to fill the cell of a murderer with flowers. If they were just they would fill the office of a good man with flowers, instead of the cell of a bad one, but the very fact that his life is soon to be as a forfeit for his wickedness brings out this sympathy of motherhood which is so grand and beautiful that we can and do overlook their faults. They are still shedding tears periodically over the death of the mythical story of Jesus Christ who, if he ever lived and did the things and taught the doctrines credited to him, was one of the worst criminals who ever cursed the earth. But they can read of millions of people burned at the stake because they do not love this repulsive character and wish they could have been there to help. If a woman's son committed murder every day in the year, she would forgive him and hold him blameless because he is her own boy. That is one of the beauties of motherhood, but it will not do for government yet. There is also another reason why a woman cannot take the lead in government and control, which it is a woman's privilege, must not be mentioned. In my own reverence for woman it is too sacred to be used as an argument, but if they become more and more inclined to have their "rights" instead of their privileges they will be surprised at the difference between privileges and protection and the hard knocks and cold facts which are a part of "rights."

PARSON'S PRAYER

The parson prayed in solemn tone:
 "Oh, Lord, to thee we bow alone,
 God help us to spread the gospel truth,
 That we'll succeed in our pursuit,
 Thou knowest, father, we can not spare,
 Without the Devil no hell be there;
 What could we do if people knew,
 When hell was gone and the Devil, too.
 They would refuse the parson's pay,
 Nor would they listen to what we say;
 Our daily bread would be growing small,
 And finally we would get none at all.
 We beseech the Lord resist all evil,
 For Jesus' sake kill not the Devil."

A. LUTTERMAN,

Ackley, Ia.

Rev. XXI, 8. But the fearful (religious) * * * and all liars (mostly religious and preachers) shall have their part in the lake which burneth with fire and brimstone; * * * *god*.

MR. PLOTT'S NEW BOOK

We have just received a new book, by Mr. William Plotts, the oil man and expert who has made the great oil fields of Whittier by demonstrating his theories by facts as well as by hypothesis. In this treatise he shows how oil is distilled from vegetable debris and is a never-ending process and will last as long as vegetable growths are carried to the bottom of the seas as mud and covered by drift. Of course, being true, it will be ignored by scientific (?) societies and great (political) scientists, who are afraid to admit any new discovery outside of their own school for fear of being dropped.

NOTE—On the inside of our cover front the above work is credited by mistake of the devil(ish printer) to Frank Morse in advertisement of Higher Science books. We regret this error but are promised a correction next month.

FREEDOM



By Nicholas Klein.

Written for HIGHER SCIENCE.

To labor and to love the labor with full return
 To think the real thot
 To love unstinted and without price
 To loose the fear of want and the morrow
 To acknowledge self as god.

Cincinnati, O., 1905.



	<h2>EDITORIALS</h2>	
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Every person should be forced by law to work on Sunday who is a lazy loafer during the week.

Francis McCarthy, a 17-year-old boy at San Francisco, sends the human voice several miles without wires by using an instrument to reproduce the vibration. Some people could not discover such an apparent secret after a long life of experiment, but the boys of today have the advantage of thinking more easily than boys did a few decades back.

California is one of the two states in the Union which has no Sunday law. It compelled the churches to pay their honest taxes until 1900, when the Protestant and Catholic thieves put their heads together and, by conspiracy and fraud, had an amendment voted by which they escape just taxation. The law, however, is contrary to the constitution of the United States and is likely to be knocked out.

Will all subscribers, who are not paid in advance, please write to the editor at least once a year. We are not sure that you are alive, or that you want the magazine, or that you even get the magazine, unless we hear from you. The postmasters of the United States are very negligent of their duty in informing editors when publications are not delivered. Often they are burned for a whole year and no notice given the editor.

One Sunday evening last month the editor defended his position that there is no motion made, except by the heating or cooling of matter. The challenge for our \$1,000 was made by our friend Chas. Heintz, of San Pedro, who is also a member of our Los Angeles Liberal Club. Mr. Heintz produced a number of complicated motions, the most mysterious being the actions of a needle and magnet. The audience decided by ballot, giving the editor 42 votes against 12 for Mr. Heintz.

The Purity Journal and Christian Life, of Morton Park, Ill., is on our table. The very name of this paper is a lie, inasmuch as nothing can be pure and Christian at the same time, except pure nastiness. A Christian is a follower of the yarn about Christ, and Christ had no home, no wife, no child, and worse than all,

no father(that he could see), according to the yarn. He was born in disgrace in a nasty, dirty stable, with animals, fowls, foul smells and shepherders around him, and after leading the life of a tramp, was hanged between two thieves as he deserved.

A gentleman from Canada writes a long letter to be published in HIGHER SCIENCE, which contains nine closely written and badly written pages. No doubt he is a good man, a good free-thinker and means well, but like hundreds of others, he is thot-less. He is not even a subscriber, but expects to air his ideas and perhaps be paid for them at the expense to us of at least \$6.00. It costs \$50.00 to get out one issue of this magazine, and if it were not for some special friends, it could not run at all, and yet there are members of our Los Angeles Liberal Club who are not subscribers who expect us to publish long arguments contrary to our belief. Well, some people have the gall of an elephant.

It is reported by wireless telephone, which is the longest leased telephone in the world, that Luther Burbank has succeeded in grafting the rear end of a lightning-bug to the front end of the common honey bee and they are living and doing well. This eliminates the stinging apparatus of the bee, as arranged hurriedly, by-god, and puts the lantern of the aforesaid bug in its place. This arrangement is much better in several different ways. While it protects man against its former dangerous stinger, it also permits it to do its labor at night, while it is cool and pleasant, and also during the day the same as usual. This enables it to store much more honey during its short life for the use of its enemies.

There is one man in Los Angeles who has had more experience with water and water pipe in Southern California during the past 40 years than any other ten men, and that is our friend J. F. Holbrook, the man who has laid and sold iron pipe here since the Americans began to settle here. Fred laid the very first joint of pipe for the old Indiana Colony, now Pasadena. Well, just ask him what he thinks of the Owens River country for water, and what he thinks of the mountains and valleys all around us a source of water supply.

We have just received a book published by the Government at Washington, D. C., Geological Department, called "Underflow tests of the drainage basin of the Los Angeles River," by Homer Hamlin. This reports shows that we have oceans of water under us which is gradually flowing towards the sea. All this water could be pumped up for use in dry months of our dry years at very little cost with our cheap oil, which is now a drug on the market, and thus we could save \$60,000,000.00 for other purposes.

ESTHER A. VAN RIPER

Esther A. Van Riper, of Circleville, Ohio, the subject of our sketch, whose portrait is our frontispiece this month, is a native of Michigan and the widow of M. H. Van Riper, who died several years ago. Dr. Esther is one of our leading freethinkers and atheists. She was the first woman member of the National Liberal Party and is a member and officer of a number of reform and scientific societies. She is one of the grand self-made women of America and is yet on the sunny side of life, with great possibilities. With all her learning in medical science, Dr. Van Riper realizes, with Dr. Tilden, of the *Stuffed Club*, that Mother Nature is the great physician after all and her successful practice has been built up by assisting Nature in her cures. The doctor is a native American, the mother of two living sons and the owner of a handsome home in the historical town of Circleville, and is respected and loved by all who know her.

CONFUSION

Mrs. M. C. Coomer.

Written for HIGHER SCIENCE.

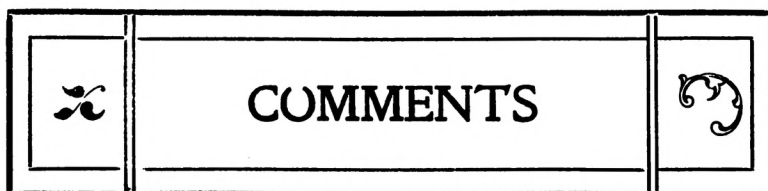
Jehovah was asked, "Why should we pray,
 At morning, at noon, and at night,
 Year after year and day by day,
 Tho, having nothing new to say,
 The same old prayers recite?"

The God replied, "Because I forget,
 So many petitions I hear,
 And my answers get badly mixed, and yet
 The more blunders I make the more folks are set
 On pouring their prayers in my ear.

"They expect me to hear a million prayers
 At once, and in a trice
 To grant their whims; but their mass of affairs
 Confuses me, and my soul (?) despairs
 Of remembering their advice.

"Hence they remind me, day by day,
 At morning, at noon, and at night,
 Of all their want; and this is the way
 To keep mankind under churchy sway—
 Prayer is the clergyman's might."

Wichita, July 9, 1905.



Matt. XIII, 42: And shall cast them into a furnace of fire: there shall be wailing and gnashing of teeth.—*Jesus Christ.*

Does HIGHER SCIENCE think that all saloons would close if all revenue was taken from liquor? If he does, he knows but little of saloon patronage. One-half of the saloon patrons go there for sociability, not for drink. The fellow who is looking for drink only can fill his hide from the drug store.—*Patriarch.*

Yes, we think if all penalties were taken off of liquor and it was sold for actual cost the saloon would not pay and therefore close. If, on the other hand, coffee were forced up to \$5.00 per gallon by religious fanatics and long-nosed female busybodies, there would be coffee saloons where men could enjoy each other's sociability by spending money to treat each other with coffee. It is true, as *Patriarch* says, one-half (we would say nine-tenths) of the patrons go there for sociability, drink more than they want and contract the drinking disease.

An act is right or wrong according to the laws of nature and no amount of authority by church or state can alter the fact. All that such authority does is to hoodwink the people and keep them in mental darkness.—*Stuffed Club.*

Nicholas Klein, of Cincinnati, compliments this magazine as follows:

My Dear Herald: Upon my return from the east I found a copy of HIGHER SCIENCE, the first I had ever seen, and after reading same, pronounce it excellent. Workers need deep reading placed before them in your simple and plain language. I trust it will circulate in many thousands. While I don't agree with some ideas presented, yet I consider HIGHER SCIENCE O. K. * * *

* * * Civilization today is better than it was yesterday. We are beginning to see that a Circe's wand has driven us to the sty, and some day we will break away. We will cast down the false gods, we have set up. We will sell our present idols for old junk, and create ideals that will give to every man the fulness of life. We will open the dungeons and let out the human race. We will breathe in an air of Universal Brotherhood. * * *—*The Little Devil.*

As long as the masses believe in a god and a hereafter, they will be satisfied with the slavery and oppression of the here and now.—*People's Press.*

Wm. E. Gates, of Shirley, Ill., in sending subscription, writes an interesting and encouraging letter, saying:

* * * I regard your theory the most plausible of any explanation of the motions of matter I have ever read. I can see the necessity of teaching the truth in its simplicity, instead of mystery as taught by the churches and public schools. I believe children should be taught the origin of life as well as other science. * * *

Edward H. D. Norman, 18 Church street, Mansfield, Notts., sends us a request for a sample copy of the magazine, but as there is no such place in the world, according to the magazine which came back, Mr. Norman will have to try and live without it, or send us a better address. His postal card has a "one penny" Canadian or English stamp pasted on it, but he may live in India or almost any part of the earth.

No, I never become discouraged because I know that if it comes to the worst I can let my hair grow long, show a band of religious enthusiasts the only true path to Heaven and live without work in the finest house in the colony.—*Arkansas Traveler*.

The doleful wail of the old-fashioned church is now being hushed, and the poetry of scientific truth is making glad the hearts of men.—*Ingersol Beacon*.

* * * Socialism will provide conditions in which Christianity will be possible and open the door for the greatest revival of real religion the world has ever known. * * *—*Vanguard*.

In that case, HIGHER SCIENCE and all good people will fight Socialism to the last ditch. Real and genuine Christianity, thank fortune, has about passed away and even Socialism cannot revive the stinking corpse which has befouled the earth for 1700 years.

* * * Difference of religions opinion has caused more misery and bloodshed than any other one agency since the beginning of time. Close friends have become enemies, murders have been committed and whole nations have warred and the cause has been different of sect. * * *—*Occasional One*.

Exodus XXII, 18: Thou shalt not suffer a witch to live.—*God*.

Matt. XI, 23: And thou Capernaum, which art exalted unto heaven, thou shalt be brot down to hell.—*Jesus Christ*.

OUR WISHES

HIGHER SCIENCE wishes you the purest joy

A happy and contented mind can know,

Hoping all is good and nothing bad,

Unless yourselves consent it shall be so.

OUR DEAR HEAVENLY FATHER'S WISHES

Exodus XXII, 24: And my wrath shall wax hot and I will kill you with the sword; and you: wives shall be widows, and your children fatherless.—*God*.

HOME-SEEKERS, ATTENTION!

THE CLIFF DWELLER'S PLACE

Do not buy a home until you have seen The Cliff-Dwellers Place. Los Angeles people are only beginning to learn the value of the surrounding hills as residence quarters for those who have the means or leisure to grade and terrace and beautify a home. When a city reaches the size of a quarter million inhabitants, its grandest homes are always in the hills and heights. You always find the thoroughbreds on high ground, as surely as you find the eagle's nest on the dizzy heights of mountain crags, and the mud-hens and geese in the grass of the valley.

Come now while this new subdivision is cheap and secure the sight for a home which you will be proud of when you have terraced, walled and planted it to your fancy. Notice how the wealthy are beginning to build along the heights of the beautiful Sunset Boulevard, and then come and see the Cliff-dwellers Place.

Take the *Spring Street Garvanza Car*, and get off at Amabell Street, at the first bunch of hills after crossing the river.

There are large houses all around this place except on the hilly side; and the hills on that side have been bought by a wealthy company and are being subdivided and are for sale to persons who will build residences of no less value than \$5,000. A Scenic Electric R. R. is to be built from the river to the city limits beyond Garvanza, winding in and out along the tops of this range and overlooking the city, Cliff-dwellers Place, Highland Park, Garvanza and all the beauty of the Los Angeles valley with its towns, orchards and railroads, as well as the beautiful Arroyo Seco to Pasadena, and later to the mountains.

For further particulars call on or address the owner, F. H. HEALD, Los Angeles, Cal., or inquire on the premises.

The Botanical Laboratory founded by the Carnegie institution at Tucson, Ariz., is studying the cactus and other desert plants. One of their puzzles is how these obtain the water of which they are largely composed when they grow best where there is no spring or river within a hundred miles and it never rains. Luther Burbank in his experiments has produced spineless cacti and if these shall prove hardy enough to displace the others when given a rooting in the desert the problem of forage for cattle in these arid plains would be solved.—*Woman's Tribune*.

The desert cactus gets its moisture from the currents of water that are passing over every part of the earth as invisible gas of water. They are cool at night and precipitate it and absorb it.

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