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# HIGHER SCIENCE



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

APRIL 1905

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

W.C.C.

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**WALTER COLLINS**

# HIGHER SCIENCE

OF THE MOTION OF MATTER.

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FRANKLIN H. HEALD, Editor and Proprietor

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No. 4

## SUNLIGHT AND MOONLIGHT

In a long article entitled "*The Secret of the Sun,*" *The Occasional One* for Mar., a correspondent undertakes to establish the electric current theory of the source of light without any fire or heat. In the course of his remarks he says:

\* \* \* —yet it has been demonstrated and proven as an established truth, that far into space beyond the clouds the temperature is inconceivably cold and utter darkness prevails. Even as we go toward our blazing sun it wanes and becomes a spot of dirty worn-out yellow.

It may seem logical to presume that to obtain light and heat we must have as the source of light and heat a body composed of matter of which we have knowledge. Years ago before electricity was understood our only knowledge of light and heat was fire produced by combustible materials. Very naturally at that time scientists accepted the sun as a body made of combustible material as they had no conception of light and heat produced otherwise. Inasmuch as the rays of the Sun have never been known to diminish one iota, it has been a matter of much speculation to discover the source of the supply of fuel. \* \* \*

To begin with, I have been several miles above the clouds a number of times myself, and have found the temperature lower, but the sun always much brighter and clearer. At night the stars are as bright and clear as diamonds, sending their light "thru cold dark space," millions of times farther than sunlight travels to reach us. These are suns and send the light of their own fires, but the moon is also brighter and clearer, to my vision than at sea level and it only sends us reflected sunlight. Light which traveled millions of miles "thru utter darkness" according to this writer to a sphere where there is no atmosphere and is sent back (second-hand light) to the earth and yet it reaches us in such good shape that we can see to read a newspaper or tell the time by our watch, and especially is it so, far above the clouds. It is no doubt true that the temperature decreases as we ascend into lighter atmosphere, but that is easily accounted for by the motion of light as taught by the theory of a procession of planets and HIGHER SCIENCE (of the motion of matter). The fact that light is only an impulse motion or force, coming from the sun or any other fire makes it a fact, that its motion is less, therefore colder where the gas it is passing thru, is lighter, as is the case with the atmosphere at high altitudes. We can by measuring the weight of

the air, tell exactly how cold it will be, before looking at the thermometer at all, because we can tell how much force must be used to vibrate it. Electricity, which I admit and teach, is the same kind of force as light and heat, will travel thru miles of "cold dark" wire and turn the dynamo at the opposite end of the wire with almost the same force which it has at the dynamo where it is generated, and remember it is generated by heat or by a force which is either generated by heat or has its original source in heat. We can generate electricity by any power or force. By using the wind for power we are using heat which moves the air; by using falling water for power, we are using heat which evaporated the water and raised it so that it can run back to the sea. So it is all thru nature and there is no force or motion which is not made by expanding or contracting of matter by heating or cooling. Electricity is made the same way that heat or light is made, and is a quality of heat or light or force. They are all forces and any force can be changed into any other by reducing to a lower or intensifying to a higher force. Heat is a higher force than electricity and in order to make heat of electricity we must increase its motion by resistance, and it makes no difference whether light travels from the sun to the earth as light or electricity, it is a force. If we push another bullet into the gun barrel which is already full of bullets, we cannot see the force travel, but we see a bullet drop out at the muzzle and feel the force that pushes it out, and it is the same force which pushed the one in at the breech.

Electricity can hardly be said to be understood yet, by all people and especially by the correspondent, if we judge by his idea that it is not the same kind of a force as light. How would he produce this force, electricity, if it is a different force from light?

The rays of the sun do increase and decrease, as returning material falls back into the sun and furnishes it with fuel. When a large piece of a scattered planet falls into the sun, changes into gas of tens of thousands of times greater bulk and tears a hole tens of thousands of miles in diameter by the explosion and throws fire and flames tens of thousands of miles high, then the force of that explosion of matter into gas is plainly felt at the earth, by the increased heat (or force) and it is actually measured by magnetic needles, arranged on scales for the purpose and also by Prof. Lebedeu's apparatus for measuring, what he calls "the pressure of light," but which is in reality the pressure of expanded matter which is always being driven rapidly up from the sun as it is expanded by heat into tens of thousands of times greater bulk and is thus forced away from the sun and carrying force with it, which in its different degrees is first, light, heat, electricity, etc.

## WHAT IS LIFE?

A few Sundays ago, at the regular meeting of the Los Angeles Liberal Club, the speaker, Dr. Tanner, who is something of a deist, made the erroneous statement that "scientists have never been able to tell what life is." Assuming the statement true and that because they do not know, he drew the far-fetched and impossible conclusion that there must be a god to create it, but failed to explain who made the latter monstrosity; what he made him of and for what possible purpose used. he could be The lecturer also made a glaring mistake, when he said that science can not tell what life is. They know that life is motion or force and that all nature has life and is alive to that degree in which it does move and is conscious. Matter is moved by expansion and contraction by heating and cooling and in no other way and as it evolves motion it evolves consciousness, which is life. It could not move if it did not expand or contract and it could not expand or contract if it was not conscious of degrees of heat, therefore mind. When the sun shines on a piece of iron, it expands according to the degree of heat and is therefore conscious to that extent. When two atoms of gas meet and flux or unite, their motion or chemical union, is life and creates the motion of heat. It is very hard for some people to realize that that is only a force and that all force is one and the same thing only in different motions of vibration. Heat is motion, therefore force. Electricity is motion, therefore force, therefore light, and can be changed into force or light or heat. Light is motion, therefore heat, electricity, and force or energy. It can be changed to any of these other motions and the time is coming when its vibrations will be reduced to electricity direct from sunlight or any other light, fire or heat. When, therefore, a substance moves by heating or cooling (which is any chemical friction) it is conscious and begins to develop a nervous system or brains. As these are evolved and transmitted for hundreds of thousands of years, the consciousness becomes better and more complex.

Prof. Loeb has succeeded in fertilizing the sea-urchin's egg, without the use of the male spermi, therefore started life by a different chemical combination (salt watr) from the regular order required to continue a species or in other words "a different chemical than would be attracted to it by natural law, necessary to continue a specie. Prof. Burbank of Santa Rosa, Cal., changes the species of plants, fruits and flowers, almost at pleasure, notwithstanding God created them to bring forth their kind, and thus proves that God has nothing whatever to do with them and even Dr. Tanner proved that Jesus Christ did not commit a miracle when he fasted forty days on the desert, and that he can do all that Christ did, and more, because he will work.

## KINDERGARTEN EDUCATION

Higher Science has been receiving letters from the "mad woman," Hellen Philbrick, of Etna, Mont., upon the subject of her said madness, which is Kindergarten Work. Now I do not know just how mad Hellen is, but if she has little ones of her own, who are in the wilds of the woolly west, where they can not have the advantage of such play; and if she realizes the difference it will make in their coming lives, it is enough to drive her, or any human mother insane. Millions of mothers, however, do not realize what the Kindergarten does for the baby mind and so they wait and go insane when they find to late, that they have raised one or more criminals to manhood or womanhood. When the tender baby brain is trained in its very first play, to think right and not by chance or haphazard as God did when he made the earth and universe, then we will have human brains to be proud of. The play and system of thinking, suggested by the building of figures upon their checkered tables, seems to lay an analytical foundation for the tender brain of a child, which ever after enables it to think easily and right, and to be comparatively, self operative. When I was an infant myself, nearly half a century ago, the Kindergarten was unknown; at least I did not know of it; but my own children have been more fortunate and received its benefits. The difference in the ease and accuracy with which they think, compared with myself, at the same age, is astonishing. They have also the added advantage of inheriting the broadening brains of their mothers, who have only been freed from mental slavery for two or three generations, and that only in America. No such splendid babies were ever born into the world as are being born now, with such perfectly balanced heads, noble brows and quick understanding. Part of the reason, is from inheriting lately acquired wisdom and emancipation from the mothers, but much of it is inherited right thinking from the Kindergarten. You may verify this statement by observing and comparing the babies of fathers and mothers who have had their first training in Kindergarten with those whose parents have only had the advantage of more freedom from the curse of Christianity. It is a pity that all women who are insanely interfering with other peoples business in W. C. T. U. work, and shedding tears over and licking the feet of the charity fed paupers who see things for Christ's sake and lie for the glory of God, could not exchange their insanity for the kind that Hellen Philbrick has. It is generally believed amongst old-timers that children should not be "to smart" and they are often discouraged and gagged by the pious parent. This evil is also passing away with the old "wisest man's" idea, that in order to properly educate a child it should be beaten with rods (Prov. XIII. 24; XXII, 15; XXIII, 14; XXIX, 15.) This is the teaching of the church whose purpose it is to maintain ignorance and rule them by fear of pun-

ishment after death. They deliberately war against knowledge, as their monster god did in the garden of Eden and nothing throws a priest or parson into paroxisms of rage so quickly as to find reason and intelligence in the young. It is however well known that, honesty and morality, go with intelligence and that crime, ignorance and religion are of another litter.

## MORE ABOUT COAL FORMATION

By WILLIAM PLOTTS

Coal does not represent accumulations of vegetation on the ground whereon it grew, notwithstanding the assertion of books on geology. The idea that it does, is absurd, and will not withstand any considerable investigation.

There has never been any sound reason advanced in support of this claim, the best one is, the presence of fossils of vegetation in the coal. But nearly all that make this claim relate that the fossils occur also in the shales above and below the coal. Why then are not the shales coal also.

The fossils are fully as numerous in the shales, and much more distinct. They are liable to occur at any point in the whole series of deposits in which the coal occurs. The significance of this is, that nothing is more common, than for vegetation of any kind to be washed out, and imbedded entire, in the mud of the sea bottom. It is related that parts of trees containing the roots have been found fossilized in the coal, the roots projecting into the under-clay. "Certainly." Why not? It is common for even whole trees to be washed out to sea. What more natural, than, for the water-logged tree to settle with its pitchy roots acting as a sinker, and the more buoyant top remaining upright, and becoming covered in that position. It would not be remarkable if the roots in this case had become coal somewhat lower than the regular coal vein, for, the wood being carbonaceous, would have an affinity for like matter when the substance of the coal was being concentrated, but it is not claimed, I believe, that that was the case. The time that it took for a sufficiency of vegetation to accumulate for a large coal vein, is reckoned by geologists into the hundreds of thousands of years, and when we consider the perishable nature of coal itself, to say nothing of vegetation, the whole theory resolves itself into the ridiculous. The shallowness of argument that is made to sustain this accumulated vegetation idea, is on a par with the reason that the same books give to account for the extensive tilted and contorted condition of the strata of much of the earth's surface.

The surface having been forced miles high at some places, and as extensively depressed at others, those who study book geology, are told that the cause of this is, the "shrinkage of the earth's crust." Just think of it! If the writers of this mean, a shrinkage in size,

of the whole earth, thereby causing the lateral pressure to crumple the surface, the action is competent to produce the result in kind, but it would require the earth to have been as large as the planet Jupiter, since the beginning of vegetation, in order to have produced all the crumpling that has occurred, and the best knowledge that we can get is, that the earth has increased in size in this comparatively short part of its history, rather than become smaller. We see meteors constantly falling, and altho they are consumed in the air, their substance must necessarily be added to the earth, and there is good reason to believe that one satellite at least has been deposited in that time.

In order to clinch their argument of "coal an accumulation of vegetation," peat is referred to as an example of immature coal. But peat does not resemble coal a little bit, and if it ever goes to form the latter, it does it in the same manner that any other raw substance of any description that goes to make up coal, petroleum, natural gas, etc., does, by subsiding to depth where the carbonaceous, or bituminous matter it contains, is distilled by heat.

It does not seem possible that chemical affinity alone would collect carbonaceous matter enough to form several feet of coal, from strata formed from ordinary river deposit, (and there is no reason to think that conditions were formerly enormously differently from what they are now). The only rational view we can take of the origin of extensive deposits of coal, and petroleum, is, that there were thousands of feet of strata, containing carbonaceous matter, and after the strata reached a depth where the heat would distill said matter, it continued to subside, strata being continually added above, in which case, the matter would be forced (skimmed) upward, and collected in a zone of even temperature, until subsidence ceased.

It is not likely, however, that the carbonaceous and bitumi-

It is not likely, however, that the carbonaceous and bituminous matter at this time, would be left precisely as we find it, but would be further concentrated and purified by chemical affinity, during the long ages of emergence, and erosion.

If coal was formed in any other way than by subsidence of the strata past the distilling point, it would occur hap-hazard throughout the whole series of strata, in an irregular manner, but instead, it occurs throughout its continuence, in an orderly zone, independently of the strata with which it is blended.

Coal is generally supposed to follow the strata, but those who make more than a superficial observation, find that it does not. If you enter a coal mine in the region south of Pittsburg (where you can sometimes go many miles in one direction without coming to the surface), and head towards the south, you will notice by observing carefully, that the coal encreaches gradually on the strata above, and correspondingly vacates the strata below, until in the course of a mile or so, the whole vein will be in different

strata from where you first observed it. In other coal fields, where this non-conformity to the strata, is generally much greater, and the separate veins or beds of much less extent, the field is a succession of veins occurring in a series of benches or steps, generally overlapping each other, each vein conforming fairly well to the stratification, but the whole field throuout its continuance, being sometimes as much as 20 degrees out of parallel with the strata. It is in such cases as this, that careless investigators have stated that the coal occurred throuout a horizon of thousands of feet, when in reality, the actual horizon of coal occurrence, did not exceed a few hundred feet.

Now, the only logical deduction that can be made in regard to this occurrence of coal, (and other minerals) in an orderly, limited zone, independently of the strata, is, that it was formed subsequently to the formation of the strata with which it is blended, and at the time of maximum subsidence of the region, the coal field as a whole, was spread out exactly horizontal, parallel with the surface, but the stratification was not. (Strata of any considerable age is never exactly horizontal.) Chemical investigation of a series of strata in which coal occurs, show us that there is a great excess of silicates in the strata adjoining the coal, especially above it, (the same is true of accumulations of iron ore). The shiny greasy appearance of the cleavage, is a manifestation of this difference in chemical structure. This excess of silica represents the principal substance that was forced to vacate the strata that was taken possession of, by the coal, in its concentration, and as the silicates would be attracted throu affinity, by adjoining strata, already largely composed of the same substance, the result is often beds of valuable clays, Kaolins, soapstones, etc., which never occur independtly of other minerals. In some of the older and more valuable coals, this principle of "like seeking like" has almost rid them of sulphurets, and other impurities.

## CHURCH VS. SOCIALISM \*

By O. LEONARD

It is because organized and authoritative religion opposes education and liberty that we find the most religious peoples the most backward.—*Robert Blachford.*

The national convention of the federation of Catholic Societies by resolution urged the Catholic workingmen to form rival unions to the established trade organizations, in order to divide and therefore weaken the trade union movement in the interests of capitalism.—"*Labor.*"

Our national religion is the performance of church ceremonies and preaching of sporific truths (or untruths) to keep the mob quietly at work while we amuse ourselves.—*John Ruskin.*

Socialists are asked why they go out of their way to attack religion. They do not. Socialists find that religion is in the way of Socialism; it opposes them, therefore they must oppose religion.

\* The above article is an advance sheet from *The New Life*, soon to be published by Mr. Leonard at Edwardsville, Illinois.

The Socialist's religion is to do the best he can for humanity.

The Christian remedy is to punish crime and to preach repentance and salvation to "sinners." The Socialist remedy is to remove the causes that lead or drive men into crime, and so prevent the manufacture of "sinners."

Though Socialism deals only with the economics, yet to accomplish its work it has to deal with all phases of human life. In order to uproot the basis of all evil, private property, Socialism must change the beliefs held till now. Beliefs inherited from older days and thoughtlessly followed. For, as I said before, convictions are strictly necessary to change the actions of men, and without a change in man's actions, the actions of a nation cannot be altered.

Private property has its helpers; its pillars among which the most conspicuous are the Church and the Army. The one keeps the people from seeing the injustice done to them, the other keeps them from putting a stop to this injustice, if they should happen to see it.

In an address before the Citizens' Industrial Alliance (St. Louis, Oct., 1904), Rev. Father J. W. Coffey said: "If the laboring men would be permitted to serve his God as he ought to, the church has a chance to do something with him." Send the laboring man to church and that will settle the business. But let us hear further what the reverend father has to say. "What is the cause of the labor trouble—this rise of Socialism in our midst? Is it because men are not paid just wages? It is not. Is it because men are deprived of the necessities of life? It is not. Is it because there is too much scarcity in the labor market? I think not. But the trouble is that there has been a condition that has slowly formed itself into influencing the masses of the people against law and order, and the condition has been the lack of higher morals and the neglect of religion." I wish I could quote the whole discourse of this prominent representative of the largest church, for no better proof is needed to show the position of the church.

It is the same old story; keep on promising a man reward in heaven and he will not ask for reward on earth. Threaten him with eternal punishment if he strikes against his god-appointed master, and he will not strike. That the church has done this all the time history will demonstrate. This my comrades—the Socialists, seem to forget. They do not care to approach the subject of religion; they say religion is a private affair. That they are mistaken, I shall endeavor to prove in the following pages.

I am not going to touch upon the so-called religion of the "higher classes" of the "intellectuals" with their Infinite, First Cause, Source of Life, all Good and what not. I am going to deal with the religion of the masses, the religion of the church. To

the masses religion and church are synonymous. I shall therefore not hesitate to use them as such.

Through the medium of the church, the great bulk of the people learn that everything comes from God. That he directs all, the sun and the moon in their courses, the building of churches, overflow of rivers, wars and pestilences and even the fight of the roosters. It is self evidence then, that the same god attends to the economic relations between his children on earth. If he thinks it wise enough for some to starve and others to kill themselves by gluttony, then must we keep quiet and say "The Lord is just." To act differently is to rebel against the wise superintendee of God and be sent for it to the brimstone factory for eternity.

To embrace a new theory that has in view the radical change of things, one must have a clear, unprejudiced mind. This is beyond the man or woman who thinks that the bible is a revelation and that God holds the reigns of the universe as a driver holds the reigns of a starved horse.

Socialism must destroy these cobwebs or else it must go. Either there is clearness of thought in the minds of the people and then Socialism gains ground, or the heads of the people are filled with unreasonable bible stories and then the church flourishes.

The clergy know this well enough and by benumbing the minds of the masses they indirectly work against Socialism. To work against intellectual progress is to work against Socialism. Archbishop Glennon of St. Louis, opposed free text books in public schools, on the ground that this would be a step toward Socialism. The Archbishop knows that the more education is accessible, the weaker the reign of ignorance, the weaker the reign of ignorance the surer the spread of Socialism. So much for the indirect work or the church against Socialism. But this is not all.

Where Socialism begins to gain ground the church declares open war. Farther William Cress of Cleveland in an address before a conference of missionaries at Washington, D. C., said: "The Socialists publish more than two hundred weekly papers, and their organizers are working all the time. Their propoganda is dangerous." Father Dr. Heiters' work in Buffalo, N. Y., against Socialism must not be forgotten. Father Dorzinsky of Milwaukee followed the example of his superior, Archbishop Messmer of the same city, when he said: "I am radically opposed to Socialism and I had no hesitation in telling my congregation that any one who voted the Socialist ticket and endorsed its platforms by so doing places himself outside of the church." The Rev. Dr. Coyle in an address said among other things: "Nothing in Europe in the last decade has been more noteworthy than the growth of Socialism. It has come to a tremendous force and as it grows, religion declines. In this country also the growth of Socialism is rapid enough to waken apprehension in the minds of all thoughtful people."

The foregoing will show that the church as such, does not say "Socialism is a private affair." The church is not content with man's "soul," it wants his body, his purse and his brain. The church is asserting that Socialism is not a private affair is wiser and understands her interests better than the Socialists.

The above lesson we ought to learn from the clergy. Our pious church fathers know very well that Socialism leads the people to doubt the wise rule of God, by showing them the absurdity of the present system of society. From experiences, these reverend gentlemen know that when the mind is once set to thinking, there is hardly a stop to it; and as they do not want people to think, they make open war against Socialism.

Not for a moment should the Socialists, hesitate to take up the challenge. Let us not forget that though might and members may be on their side, right is with us and right must triumph in the end.

Socialists seem to forget that the man who says "The religion of my father is good enough for me," will also say "The private property system was good enough for my father, it is good enough for me." Organized religion and conservatism are synonymous. It tries to cement things that ought not to be cemented. The church has always opposed every new scientific theory. It has imprisoned explorers, tortured inventors, and burned men of science and philosophers.

Another thing that should not be overlooked is the fact that the church as an institution owns more property than any other institution. As a private property owner it is to her interest to oppose the abolition of private property.

Did space permit, a thousand and one arguments could be brought to prove the need of taking up the challenge of the clergy, I say the clergy, because they are representatives of the church and of the religion of the masses.

The above facts will suffice, I hope, to show that in the interest of mankind we must do away with the gloomy dome of the church. We must show the people that under the black garment of the priest, a black purpose is hidden—the purpose to arrest progress.

Sooner or later, the Socialists must learn these things, if they are to work out their ideals successfully. Not with the dungeons nor with the rack of the church must the Socialists work against the church, not with the malice and hatred of the church, not by ostracism but armed with the torch of science, with reason and common sense must they do away with the dominion of the church. This will bring us nearer the realization of Socialism.

	<h2 style="margin: 0;">EDITORIALS</h2>	
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He that discovers a truth of science is greater than he who taketh a city, and the Editor of HIGHER SCIENCE would rather be a doorkeeper at the mouth of shoel, than to have as much power as god almighty is said to have and be as mean and ignorant as the bible shows him to be.

There is nothing which shortens life so fast at the other end as trouble. If you have any trouble, bury it and forget where it is buried. If you have friends who are in neverending trouble, cut them out. You can not afford even your own trouble. Your family or friends want only your happiness and sunshine and that is what you want and deserve from them.

The Spiritualists are to have a great campmeeting at Mineral Park in this city from June 25 to July 25. While Spiritualism is not as broad as Atheism, it is so much better than Christianity that there is no comparison. Most of them are now about willing to admit that the spirits must be material and are honestly anxious to reason without the blighting curse of faith.

For all the opposition of "sissy-man Bok and whiskey-bloated, charity-fed Cardinal Gibbons, against the women's clubs, they are going right along educating themselves out of the god-ridden and priest-ridden churches, and they are filling the public schools and kindergartens with wise children who know their own parents better than children did when society was debauched by men "after god's own heart," wise Solomons, Saints, Saviors, Virgins (?) and Holy Ghosts.

No place in the world will you see such clean, bright, intelligent faces and well balanced heads; such well formed, healthy bodies and glowing color; such polite consideration of others, happy dispositions and humor, as you will see if you will take a seat some school-day morning on North Broadway and watch the High School scholars as they pass in a great stream up to their daily studies. And why not in this finest climate with the most favorable environments possible in the world.

Moses Harmon, editor of Lucifer (the bearer of light), has been arrested for publishing his honest belief in regard to the marriage problem. It seems that his remedies would interfere with the god-given-right to demand money from people who wish to es-

establish family relations, hence their persecution. Mr. Harmon will be remembered as lecturing before our Liberal Club last year.

All of the old saints, wise men, men after god's own heart, saviors and prophets of bible lore, taught and practiced the slavery, debauchery and ownership of women, and negroes, and strange to say, women and negroes are now its only remaining support outside of a few men, who would rather chip in some of their hard-earned nickels, than to be kept awake by a system of priest-taught hen-pecking.

There is not a preacher or priest, who does not take up a large part of his time on Sunday, in belittling and lying about Infidels, Atheists and Freethinkers. Calling them Liars, Brutes, Blasphemers, Fools, etc., seems to be the principal part of his business, outside of seeing things for Christ's sake and lying for the glory of god. and yet they froth at the mouth and scour, when this magazine records the fact of the inhuman crimes they are committing and being punished for every day. Read Crimes of Preachers.

The editor of HIGHER SCIENCE has been carefully watching the new religions as they come tumbling over each other, to reach the front, fondly hoping that some one of them would spring a female god, a lady savior, a she-devil and a fat, handsome woman preacher. All of whom he could worship without feeling that he was loosing valuable time to no purpose. Such a church would certainly be a money maker, as long as it was not overdone.

A. L. Reynolds of this city, who is building a flying machine at La Fiesta Park, with which he will take advantage of the power which is moving the air, by using the force of gravity and horizontal rudder, lectured to the Liberal Club last month to an intensely interested audience. In showing why heavy birds fly faster than light ones he very aptly illustrated his point by the speed of the planets as they approach the sun, and become heavier by the increasing force of gravity or attraction of the sun.

Now that many plants are found to be meat-eaters, who hold out taffy on their leaves to catch the unsuspecting worms and insects, it has become a question with Vegetarians, whether it would not be better to take their meat at first hand and thus secure a better quality than worms and flies. It is now a well known fact that all vegetables are really male and female animals and the nastier the filth in which they grow the finer they taste to a true child of nature. He will go into spasms of disgust when he thinks of the vulgarity of eating meat but will swallow with relish the mushroom which contains untold billions of small life and itself sprang from an old buffalo chip in a single night.

The Police Board are after the saloons again and the whole city is in an uproar about it. Now if there was really any sincerity in these spasmodic bluffs at reform by police, W. C. T. U.'s, hatchet women, and churches, they would investigate the cause of increasing drunkenness and when they found that all the saloons would close if they did not pay, and that they would not pay if liquor was sold at cost, because the sons of W. C. T. U. women, would not stand before a barrel in a grocery store and treat each other to whiskey only worth 10c per gallon. It is the purpose of the managers of the women who compose the church, to keep people in ignorance, even tho they must resort to the saloon crime to kill their brains with interperance.

We have before us *The Deluge and Its Cause*, by Prof. Isaac N. Vail, of Pasadena, this state. He believes the earth was formerly surrounded by water and that most of it fell at the time of the bible flood and that from the vapor heavens has come all the myths, mythologies and religions. Prof. Vail's theory is very ingenious, but only conforms to the Procession of Planets in some particulars and therefore only partially correct. His theory would make Jupiter older than Saturn, which could not be the case if they are falling towards the sun. That they are falling towards the sun in their orbits is proven by the speed they gain as they near the sun.

## WALTER COLLINS

Walter Collins, the President of the Los Angeles Liberal Club, whose portrait is our Frontispiece this month was born in Absecom, N. J., May 29, 1864. He left home when six years old and went to Philadelphia, where he married Helen A. App in 1886. In 1898, they came to California and are now located at 3708 S. Park avenue, in this city, engaged in manufacturing table extracts. Mr. Collins' family have gradually evolved from Puritans to Atheists and Mr. and Mrs. Collins and also their two bright young sons are all sound Atheitsts and not afraid to say so and give reasons why. Mr. Collins is an iconoclastic writer of force and one of the early members of the American Press Writers Association. He is a Socialist in politics and always strictly up to the times.

When they have a message, when you need their aid, they will find the means to help you. Every time you are tired, every time some little thing annoys you, it is not necessary to invoke spirits to relieve you. Stand firm and help yourself.—*Philosophical Jol.*

True, spirits are a good thing in their place if you do not use to much. Some people will look for symtoms or even pretend to be tired, in order to have an excuse to call for spirits. The greatest trouble in their use in these days is that so many are impure and create an abnormal apetite which becomes an incurable habit.

	COMMENTS	
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Even the Prince of Peace had to pay the price of peace.—*Ram's Horn*.  
 Yes, that is true. He had to sell his garment and buy a sword. He came into the world to bring a sword to divide the home. So they hung him between thieves as an example to all such peace-makers. If every Priest, Preacher and religious Editor in the world, who divide families, would pay the price and were hung with other thieves, the world would be a much better residence quarter.

J. W. Cooper, of Kansas City, asks the following questions:

1. According to the Heald theory, about what is the annual approach of the earth to the sun?
2. About what is the temperature of the sun at its surface?
3. Same at the zone of nebulae beyond Neptune?

Ans: (1) 30 million (miles) divided by 400 million (years) or 3-40 of one mile. (2) Estimated about 4000° above zero. (3) Estimated about 4000° below zero.

Matt. X, 28: And fear not them which kill the body, but are not able to kill the soul; but rather fear him who is able to destroy both soul and body in Hell.—*Jesus Christ*.

Now that hell is burned out or knocked out we have nothing to fear, and may sleep in peace. We know now that hell was simply a falsehood of priests to frighten ignorant people to support them, and therefore that god was also one of their falsehoods and there is and never was such a vile monster.

Prof. Dolbear tells us Nature is "a push and a pull." Were this true, it would require two Gods, or two forces, like Osmuzd and Ahriman in Persian theology. Upon a similar theory of duality, present scientific theories are based. A change is coming; New Thought heralds it. Unity cannot admit of two forces, or two laws, one the opposite of the other. There is but one Force, one God, one Law. \* \* \*—*Now*.

As far as that is concerned, there is no god, altho the religions all have two, one in opposition to the other; and the bad one is always a gentleman and scholar compared to the good (?) one. We offer *Now Folks* a chance with others to win \$1,000 by showing that there is any force in nature, not made by expanding and contracting, by heating and cooling, which are opposite forces.

Job. II, 4:5: Skin for skin, yea, all that a man hath will he give for his life, but put forth thy (god's) hand now and touch his bone and flesh and he will curse thee to thy face.—*Satan*.

If the story had been true and not a falsehood from beginning

to end, he would have done as the Devil said he would do. Mrs. Job, who had the brains of the family, advised him that if he "still retained his integrity" (virtue, self respect, morality, sanity, etc.) verse 9, to "curse god and die." But according to the inspired (?) yarn he still sat on the ash-pile, scraping his boils withal, with a potsherd, joined by his friends, Billdad the Shoehite and the other "hites" and "nites" and "tites" and "mites" who kept him out of his head until god rewarded him with more children, cattle, muttons, dogs, etc., than he had ever had in his life before.

In a long article on teeth and how to keep them clean, etc., *The Naturopath* says amongst other things:

\* \* \* A very pleasant and suitable mouth wash is one drop of cinnamon oil in a large glass of water. If we compare the condition of the mouth and teeth of people who use the above preparations daily, with others who do not pay careful attention to them, we shall find a great difference between them, particularly with children. The excuse sometimes made that animals never use a tooth-brush and still have excellent teeth, has no foundation.\* \* \*

Tooth brushes and tooth washes and acids are means of making more work for dentists and doctors. The Editor of HIGHER SCIENCE never had a tooth brush in his mouth and his mouth is as sweet and clean as new mown hay and his teeth are sound, too, because the enamel is not rubbed off.

II Sam. XII: 11: Bhold, I will raise up evil against thee out of thine own house and I will take thy wives before thine own eyes, and give them unto thy neighbor, and he shall \* \* \* in the sight of the sun—*God*.

We are sorry to be compelled to allow such vile thots, of this vilest of monsters, to appear in this magazine, and while we apologize to our readers we hope they will get a bible and read it to their pious lady friends.

We have many new, unarticulated movements that challenge the attention of the world. A list and definition of each would be useful and ought to be made. Some journal in making out such a historical, lexicographic statement would render an excellent service to the country. \* \* \* — *Lucifer*.

We suggest that *Notes and Queries* of Manchester, N. H., would be the most accurate and able of all journals in America to do such a work.

The *New Church Messenger* asks each of its readers to answer this question:

"What one thing is best worth striving for during 1905 by Washington Christians as a body?"

HIGHER SCIENCE suggests that more intelligence and less faith and filth would be a good idea. Strive to be so much better than god, Jesus Christ, David, Solomon, Mary, Ruth, Sarah and all the other old sweet-scented saints, virgins, ghosts, gods and saviours, that you can appear in the daytime without shocking decent and honorable Atheists who want to reside in a progressive community.

Eccl. III: 19-22 For that which befalleth the sons of men, befalleth beasts; even one thing befalleth them: As one dieth, so dieth the other. Yea, they have all one breath; so that man hath no prominence above, a beast, for all is vanity. All go unto one place; all are of the dust; and all turn to dust again. Who knoweth the spirit of man that goeth upward, and the spirit of the beast that goeth downward to the earth. Wherefore, I perceive that there is nothing better, than that a man should rejoice in his own works; for that is his portion; for who shall bring him to see what shall be after him?—*Solomon*.

The old boy was sober when he dictated the above true philosophy.

B. F. Smith, of Bellingham, Wash., sends four new names and \$1.00, and says:

\* \* \* I think I will add considerable to this list later on. I take more delight and comfort in reading HIGHER SCIENCE than any other literature I receive \* \* \*

see the weakness of old beliefs.—*Ingersoll Beacon*.

Those who find the most fault with Iconoclasts are those who faintly

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