

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

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HIGHER SCIENCE

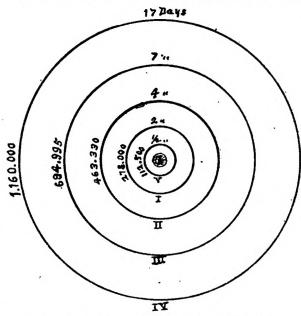
Of the Motion of Matter.

VOL. II.

LOS ANGELES, CAL.

THE MOONS OF JUPITER.

Four of the moons of Jupiter may be seen with an ordinary fieldglass (78*) and one or two of the largest, it is claimed, can sometimes be seen with the naked eye. In the largest telescopes they show in considerable detail; enough so that moon I is known to be held with one face to Jupiter, by magnetic at-



traction, the same as our own moon is held by the earth and the same as the earth will some time be held by the sun, as Venus and Mercury are now (155). These four moons, numbered from the planet outwardly I, II, III and IV, were the Onumbers in parenthesis refer to Notes in "Procession of Planets."

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first objects upon which Galileo turned the first telescope ever made and this was why the church tied him to a stake to burn They then kept, as they keep now, a burning sword flashing in every direction between the tree of knowledge and the ignorant, who thru ignorance only will support the lazy, worthless and dangerous priesthood, by the charity of their In 1892, Professor Bernard, noticing women and children. the perfect ratio in the distance of these four moons from the planet, decided that at the proper ratio distance, there should be another between number I and Jupiter and sure enough after considerable pains he found it, very small, 112,500 miles distant or less than half as far from Jupiter as our own moon is from the earth, and making its entire orbit around Jupiter in 11 hours, 57 minutes and 22.6 seconds. The following table shows the name, distance, time of orbit and speed of each satelite .

Name-	Distance— Miles.	- Time of Orbit—Hrs.	
Bernard's		12	1,350,000
I	278,500	421/2	960,000
II	463,300	85	754,000
III	695,000	171	580,000
IV	1,160,000	400	415,000

In examining these moons and their various relation to the planet in connection with the procession theory, the proof they give of the truth of the theory becomes almost startling to one who has not been a student of the new theory. In the first place they follow the same law in shortening their orbits and increasing their speed (255) which the planets obey in approaching the sun (See Law XXII) and which the sun itself must obey in approaching the center of its binary system; in fact, which all condensed matter must obey as it falls in an orbit to its center of convergency. We notice that the little moon discovered by Professor Bernard is traveling at the rate of 1,350,000 per day and must have gained this speed by falling towards Jupiter. The old theories suppose that it was thrown out from Jupiter, in which case it would only travel at the rate of Jupiter's equatorial speed, which is about 690,000 miles per day, or less than half as fast as the moon actually travels. On the other hand the old contracting theory supposes that Jupiter once filled the orbit of its moons and revolved as a whole, which would

give the outside moons the greatest speed as they, under that theory, must make an entire orbit while Jupiter revolved on its axis (See "Nebular Theory Wrong," No. 4, Vol. I, page 1), or making moon IV's speed, 16,704,000 miles per day. On the contrary the outside moons travel the slowest and gain speed as they fall in the same inverse ratio with which they shorten their orbits, by the same law as we have seen the planets obey in falling to the sun (250). The next planet outside of Jupiter's orbit is Saturn, and Saturn has eight moons. Now this theory of a regular procession of falling matter, supposes that when Jupiter was at the orbit of Saturn, it had as many, but that the inside ones have gradually one at a time fallen into the planet as they shortened their orbits, thus adding to the heat and bulk of the grinding and heating planet. We can have but little prima facia evidence to prove this condition, as it has been but a few century's since that greatest of all curses to humanity and civilization, religion, has been held in check, so that we could investigate and keep records of the doings of heavenly bodies. There is, however, the great red spot which appeared suddenly on the surface of Jupiter in 1878 and which by its actions gave every indication of having been a moon, which had been revolving around the planet in its great mass of clouds. Jupiter being in a more or less soft or loose condition, the moon did not break up but simply stuck in the more dense interior matter of Jupiter, as evinced from the fact that it revolved more slowly than the outside matter, which continually passed by it at a rapid rate. Either the heat caused by its falling (See No. 8, Vol. I, page 3) or the temperature of Jupiter's interior; heated it to a bright Indian red, until it finally melted away and settled into the interior regions. In examining the moons of Saturn in connection with this simple theory, we find that the outside moon is 2,225,000 miles from Saturn, whereas the outside moon of Jupiter is but 1,160,000 from Jupiter. This is convincing evidence that when Jupiter was at the present orbit of Saturn, its farthest, moon IV, was as far away as Saturn's farthest moon, Iapetus, is now, and that it has since fallen 1,065,000 towards the planet and that there were perhaps three moons inside of the orbit which Bernard's moon then occupied, which have fallen into the planet. In the case of planets, a new planet is added to the procession in the outside region, as often as one bursts and falls into the sun, but when a moon

falls to its planet, the planet has one moon less (204) and none takes its place, because all moon material is being used by the new planet which is forming and collecting its retinue in the outside regions where the moon material is located. In evidence of this fact we have but to glance at the following table (190) which must convince us that as the planets fall towards the sun, their own moons obey the same law and fall one at a time in regular order and regulated by the same infallible law. We leave Uranus and Neptune out of the table, because their great distance makes it impossible to discover only their largest or burning moons.

 Venus
 0

 Earth
 1

 Mars
 2

 Asteroids
 ?

 Jupiter
 5

 Saturn
 8

It does not take any great strain of imaginative powers to guess where these moons have gone, and especially when we take all this evidence into consideration. The procession theory explains so satisfactorily the expanding and returning of matter from and to the sun, the feeding of its wasting energy and the ceaseless motion of all matter by the expanding and contracting of matter, that this little system of the moons of Jupiter are but a drop of corroberating evidence of procession, in the boundless eternity of expanded and contracted matter of which it is in comparison, so small a portion.

BINARY SYSTEMS.

Modern astronomy shows conclusively that there are many double stars, or suns, which make orbits around each other. Sometimes there are more than two, consisting of triple or multiple stars. Castor is a double star, in a telescope of moderate power, one of the third and the other of the fourth magnitude, within 5 seconds of each other. In some cases the distance between these stars is less than I second and they are traveling around each other with a speed so appalling that it is beyond the power of the human brain to comprehend. Indeed the nearest of these binary systems are so far removed from the earth that it is scarcely possible to more than estimate their

distance. The variable star Argol has an orbit period of sixtynine hours. It is a star of the second magnitude, but for seven hours it is partially eclipsed by a monster dark body or a number of them and at its minimum is reduced to a star of the fourth magnitude for twenty minutes, when its luster is gradually restored. These great bodies must then be flying around each other at a distance of only about 3,000,000 miles apart. We can form some idea of their great distance from the earth by the comparison of their orbit to the size of a one-cent piece removed to the distance of one mile from the observer. By the perfect methods of mathematicians the astonishing fact has been shown that where a binary system is formed of two stars, the motion of each star is performed in an elipse, which contains the center of gravity of the two stars in its focus. One of the finest binary stars is Castor, which is divided into a star of the third and one of the fourth magnitude. The Polar star or North star is also a binary, its companion being much smaller of the ninth magnitude. Mizar in the constellation of Ursa Major being the middle star which forms the tail, is also a beautiful double star. Lyrae is a most interesting double star, each of which as again a double, making a double, double star. The entire star consists of four stars in two pairs. The pairs are each revolving around each other and the two pairs again revolving around each other, which we see makes a very complicated set of motions to be dealt with by mathematicians. Professor Burnham of the Lick Observatory had discovered 1000 new double stars in 1897. Some of these stars are thousands of times further away than others, and their distance can only be estimated by calculating the diameter of the telescope required to bring them into view. Some of our comparative neighboring suns are so immense that they would fill our earth's orbit around the sun, and yet they obey the laws of gravity and the laws which govern our own solar system with its procession of planets. These great suns are gradually approaching each other by the laws of the processions of planets and when they finally touch each other we have the phenomena of a burning star as the new star in Perseus (See Sept. No. page 4). All the matter in existence is therefore in motion, either as solid matter falling towards its center of convergency or as gas expanded and pushed by the expanding power of heat.

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FISSURE VEINS.

There is one simple law of the formation of the earth's crust which every prospector should understand before he undertakes to find mineral in paying quantities, and more especially In the first place, he should know that granite is the original rock, or "fire rock" of the molten earth, is unstratified and therefore contains no gold in quantities to pay. the second place he should know that sandstone is the latest formation and never contains gold in ledges and only in rare instances contains placer gold, and only when it has drifted from higher ground, where it was originally deposited millions of years ago. Knowing then that it is useless to prospect in either the granite or sandstone, let him confine his explorations to the rocks which were originally formed by the stratification of water, parallel with the center of the earth. These were necessarily formed at the bottom of bodies of water and therefore level or one layer of wash or debris, one above another, just as we see recent sandstone, limestone or clays forming and laying level or flat, with the stratification parallel, one above another. These old stratifications may now, after millions of years, be tilted in every direction, by upheavals, but when they were made, we must remember, they were level. While they were level, was the time when the fissure veins were made, i. e., fissures or cracks with a general direction straight down thru the strata, to the fire or molten matter below (See fig. 1), where the mineral gases were, and where the molten matter of the inside of the earth could force up its mineral gases thru these fissures, where it cooled and settled as condensed mineral. These crevices may have been filled with loose matter from either above or below, but the gas could be readily forced thru it until it cooled and condensed into solid mineral of more or less purity. Inasmuch as these fissures go straight down when made, they must always thereafter lay at right angles with the stratifications, no matter at what angle the stratification may be tilted by later upheavals. Originally this fissure may run north and south, east or west, or in any other direction, but when you find it now, no matter what the tilt of the original stratification, (called country rock), the fissure will still be at right angles with it. (See fig. 2). The stratification may be tilted enough to stand exactly on end, making it go straight down, in which case

the fissure will lay level, exactly reversing their original positions. This being the case, it is useless, then, to prospect in any "vein" running with, and pitching with the country rock, because it is only a part of the original stratification and not, and never was, a fissure. A true fissure may "run" almost or even exactly in the direction of the stratification, but it will "pitch" in exactly the opposite direction or cross the stratification at right angles as it was made. (See fig. 3).

Of course, there are many other local complications which come up to be solved (See Mar. Higher Science, page 19), and the prospector should have a general and correct idea of the fundamental principles of geology, in order to unravel, or understand the original position of some of the conditions which he encounters. There are many minerals. however, which are deposited from water, which carrys them in solution and deposits them in material thru which it percolates. In a case of this kind, mineral may be found in stratifications which were tilted so the water could follow them. but usually the strata carrying mineral are so compact that the little mineral deposited is not worth the trouble of mining. Usually a stratified country with no true fissures is not worth prospecting, unless you can find a general breakup from below, which sometimes happens on our California deserts. This last is the condition at Randsburg, on the Mojave desert. This great breakup thru the original stratification seems to have been directly connected with the molten masses and gases below, and stringers or crevices run out from it in almost every direction. This great region of desert is little more than "run over" by prospectors, and our mining industry is yet in its infancy.

ADOPTS THE PROCESSION THEORY.

Dr. Geo. W. Carey, in the N. Y. Journal, amongst a mass of bad science, makes the following sound remarks, which are according to the Procession of Planets theory, as our students of the theory will at once recognize:

"How does electricity, or energy, pass along a wire? It does not pass at all. Place your hand upon a piece of timber, or iron bar, and have some one strike the other end a blow with a hammer, and you will instantly feel a jar, or vi-

bration, but nothing—no substance—passed from one end to the other. The molecules, or particles that compose the wood or metal vibrate each other, and thus produce the same motion at the opposite end. This explains the science of telegraphy, the telephone, etc. The vibration set up and started at one end of a wire sets every particle, molecule or atom of the wire in vibration; thus characters or sounds may be recorded.

"Wireless telegraphy is explained upon the same principle. There is a universal substance everywhere in molecules between which is universal Energy (the body and spirit of the Universe), and thus vibrations can be conducted through so-called air and recorded, providing a receiver corresponding with the sender is prepared.

"Is wireless telegraphy the last step in the science of communication? No. The brain of man (and woman) is both a transmitter and receiver, and when the race awakens from its dream (hypnosis) of flesh, it will find the brain is the only instrument needed, and that the medium of transmission

of thought is everywhere present."

The Doctor's ideas are rather crude and unfinished, and he still gives god all the credit of nature's work, but he is on the right track in many important respects. Electricity is a fluid, and does move along the wire in transmitting a telegraphic message—that is to say, it moves the same as the bullets in the gun barrel. Suppose, to illustrate, we use an iron pipe ten rods long filled with bullets. We push one bullet in at the west end, and the impulse moves ten rods, and a bullet drops out at the east end, which means "A" to the receiver of the message to be sent. Two bullets mean "B," etc. Now, suppose the entire message requires a thousand bullets, and each bullet is 1/4 of an inch in diameter; we see, then, the bullets have each traveled 250 inches. His idea of wireless telegraphy is good, and his idea of mental telegraphy is excellent, but it wearys one to read in the same article:

"Two clear days in August, the temperature one day 95 degrees, the next day 75 degrees. Cause: Different rate of vibration in waves of energy directed by Infinite Intelligence. Does it not seem very foolish to continually complain about the weather?"

HIGHER SCIENCE does not sanction or encourage the habit of complaining about the weather, but the cause of difference in the heat and vibrations of the two days, is far removed from divine ignorance—and is caused by more returning matter falling into the sun on the day when the thermometer registered the highest, thus causing more rapid expansion of solid matter into expanding gas (See Mystery of Sun, Aug. No., page 11). The more rapid expansion of gas at the sun jars the sea of gas more rapidly, and this jarring or vibration is transmitted to the earth with the speed of light, and of course causes more rapid vibration at the earth, therefore more friction or heat in the atmosphere (See Nov. magazine, page 2).

SOCIALISM.

SOCIALISM contemplates a condition of society where every person is protected by society, or artificially, regardless of his own ability as an individual. Whether or not this is possible in nature is a question which is hard to answer. Nature seems to provide for the survival of the fittest, and yet we apparently find in nature the most perfect form of socialism possible. Bees, ants and many other insects, worms, birds and animals, seemingly act in colonies as one individual. Each has her, his or its duty to perform, and helps provide for all, while the colony as a whole provides for each. studying these insects in their relation to each other, as socialists or communists, the question must arise. Are they more or less intelligent than man? Are we really the lords of creation, as we have so fondly believed, or are we deceived? Have not these little insects really greater intellects than man? There is a volume of evidence on both sides. In many ways they are undoubtedly developed far in advance of man. is an established scientific fact that in com parison to its size, the brain of an ant is many times heavier than the brain of a human being. In many ways their senses are apparently better developed, and there is little room for doubt that they communicate their thots by mental telegraphy (See Feb. No., page 14). They are undoubtedly much better developed in the sense of smell and perhaps in the sense of sight. These speculations lead us naturally to a suggestion that those of

us who may be looking for a god to worship, instead of shutting our eyes and looking up into the sky, with our imagination, might do well to take a microscope and look in this direction amongst the microbes. It is not quantity of brains, perhaps, as much as quality which enforces for greatness. On the other hand, the superior intelligence of man, if it be, may cause a hundred of these perfectly organized colonies of little communists or socialists to occupy his apiary and compel them to work for him, by systematically robbing them of the honey they work so hard to "provide for the morrow." They are his slaves, and work their millions of short lives away every so many days, for no advantage of their own, except to live out their short time, commencing their work in the early morning, as soon as the numbness of the cold night goes out of their legs and wings and bodies, toiling hard all day and lying numb and stiff in the dew of the last flower they robbed at night (unless they chance to be on the night shift, who make wax and comb all night in the hive), until the sun of the coming morning warms them into action, and they can move and begin another day's toil. In examining this most perfect form of socialism, we find it carried to the extent that the great body of the colony have actually no individuality and no sex. One sovereign, a female, is the mother of all, and the only one in the colony who does not toil, when warm enough to move, with the exception of the males; one of which, amongst hundreds, is selected as a proper father, after which he, with all his brothers, is mercilessly put to death by This is perhaps going farther in the direction of the loss of individuality than human socialists contemplate, but there remains the question of how far we can go and stop? Is not this the ne plus ultra of nature's socialism? The People's Press of Chicago, a leading socialist paper of America, hits the nail squarely on the head when it says, "It is not law the people need so much as brains." While this is true, yet there are millions of people who have plenty of good brains, and brains that are well balanced, who are too lazy to use them. They would rather go and work their muscles all day for eighty cents than to get right down to good, hard thinking. They are willing for some one else to do that part of their work for them, and right here is where they lose their individuality and the best benefits of life. The paper

above quoted, continuing its remarks, truthfully says: "They have the strength numerically, but the few do the thinking, and of course reap the profit." Now, whenever a man allows another man to do his thinking, he puts himself in that man's power, and that man is his master and he is that man's slave. Do we expect some man to come into the world to do our thinking for us, for our benefit? Then we will be disappointed. If he comes and does our thinking, he will do it for his own benefit and we will be in his power, for his benefit and not ours. Christians believe that Jesus Christ came into the world with the entirely unselfish interest of humanity at heart; that he cared nothing at all for his own individual interest, but was only concerned for the good of others. This is a great fallacy. If such a person ever lived—and it is now certain that he did not—he was here for his own benefit. If we take the unauthenticated story upon faith (and filth) as true, we see that he expected to do the thinking for the ignorant; he expected to be their master, so announcing himself (John XII, 26), and is so worshipped (Matt. XXIII, 8, 10). He expected to be followed and worshipped by women, and even expected them to bow down and kiss his feet like slaves (Luke VI, 37 to 46), as an acknowledgement of their serfdom (John XII, 3, 5). He expected them to pour valuable ointment over his head and "minister" to his wants and vanities (John XII, 2; also John XI, 2). This he expected from the most beautiful young women. Those who were more plain he expected and ordered into the culinary department to provide for his temporal needs, and they obeyed. Is it possible that the man who has the industry, ambition and indomitable will and is not too lazy to do our thinking for us, has a right to be our master? One thing is certain, whether he has the right or not, he will beour master if we are too lazy or lack the ambition to think for ourselves. Human beings have undoubtedly occupied this earth many, many thousand years longer than we yet have history or knowledge of. Old cities are found buried under each other deeper and deeper, some of which are supposed to be not less than 35,000 years old, showing as much evidence of intelligent humanity as cities of 200 years ago. A fairly developed and well balanced human skull has been discovered buried deep in the earth, under conditions which show that its owner could not have lived less

than 300,000 years ago. Has humanity, then, existed here for hundreds of thousands of years and not yet been able to settle this question of socialism? Or has it been settled hundreds of times and failed, because the people would become indolent and depend on others to think for them? Out of all this jumble of contradictory evidence, in history and nature, we can draw no conclusion as rational and reasonable. as we can, to use our own brains in investigating man and his surroundings and necessities today. There is really nothing outside of nature, and nature regulates itself properly. If we plant too many orange orchards in a valley, not separated by other orchards or vineyards, nature will at once be overtaxed and a destroyer in the shape of a scale will result to balance nature and remedy the evil. If we plant too much cabbage or plant it too many times on the same ground, an army of worms will sweep it away. If we confine a thousand hens in a correl, where there is not enough green alfalfa and running water, only the fittest will survive, and they will nearly all be roosters. It is the same thru nature, and is the law of supply and demand. Everything in nature seems to be governed by the simple law as laid down in the theory of a Procession of Planets, expansion and contraction; when anything expands too much, it will cool and contract again, and by its contracting will cause the heat to expand again—a ceaseless motion back and forth, of which we are but a part and parcel, and a small part too. Our associations with each other are only a part of the laws of nature which right themselves when wrong, if we think, think independently and right and do the best we can.

There is one thing, however, which I feel that I must be honest enough to call your attention to, even at the risk of offending some of my very warmest personal friends, namely, the fact that pure, natural socialism contemplates a placid and contented disposition of mind, such as we find in a colony of bees or ants, where all think alike, or act from the thinking of another, whereas human socialists, being as they are now, the most advanced thinkers of this age, can never agree on anything. Each has his own strong independent thinking apparatus, which is his own personal property, and which he proposes to, and does, operate according to the dictates of his own individual conscience. Altho I am not as old as Mathu-

sela is reported to have been. I have had considerable experience in dealing with human nature, but during this experience of nearly half a century, I have never seen, heard or read of human beings holding together, as one individual, "with but a single thot," except thru the medium of ignorance. We know that the more ignorant and depraved the followers of a religion are, the longer they will stand solid in thinking as one person (usually a villain) thinks for them. Individually they must not think, because the moment they do so, they will begin to split up into factions. So in natural socialism, we perceive the toiler, who works day and night during its entire life, is in fact only a machine, and that before its birth it is robbed of its sex, which is its ambition, the same as a child's brain must be poisoned while in its cradle by the church, if it is to be a dependant and slave to superstition.

There are certain reforms which should be made to regulate, first, the money system, so that selfish people would not be rewarded for their bad qualities; second, land monopoly, so that selfish people could not do as the dog in the manger; third, the transportation or system of exchanging products at actual cost; fourth, a system whereby humanity would reap the benefit of labor saving machinery, and, fifth, a system of education which would teach the young how to think, without filling their brains with the statistics of dead languages, grammar, ridiculously bad orthography and a thousand other things which can be of no possible use to their lives. If we were protected against selfishness by the first four reforms. and taught how, and were not too lazy to think, then the man or woman who took the lead and reaped the greatest honor would certainly be entitled to it, and we could afford to be proud of him. Individual thinking would not be taken from us, but would be at a premium, and if any one of us lost our individuality by indolence, he would be solely to blame, because if we stop thinking, nature will punish us and reward our masters, those who do think. If we would all think for ourselves, think right and then do right, there would not be much hard work to do in the world, and each would have his or her little portion to do, and no more.

VOLCANOES.

(The following is from the pen of a gentleman who, while a deep thinker, is too modest to allow his name used, which we regret).

The theory of ocean water running into the molten lava or hot cavities of volcanoes, and causing them to explode, as advanced by scientists generally , seems to me to be absurd. In the first place, the natural gravitation of mud, sand and other debris in the sea, with the weight of water above, would fill up all such crevices. If they were fresh cracks from below, then the action of the volcano, started before the water got to it at all. Even if there was a crevice and the water rushed in suddenly, there would be but a small explosion, about like a dynamite mine, as the explosion must come at once, when the water first touched the molten matter. the compact state of the earth, we can see there is no chance for any large body of water to come suddenly in contact with a great body of molten matter, as you can thro a bucket of water into a caldron of melted iron. If there is such a thing as a molten inside the earth, the water would be driven away from it by heat, and it would be comparatively cool before the water could come in actual contact, except in cases where molten lava overflowed from volcanoes and ran into it.

According to the procession of planets, as soon as the new planet begins to grow or gather and show any signs of solidity, they commence to generate heat by the friction of grinding, caused by revolving the outside loose matter faster than the inside, as heat, electricity or magnetism is added and augmented. As soon as the heat is such that the matter will mix, the heaviest must settle towards the center, and the friction being gone, the heat goes also, while the lighter matter stays on the outside. We try to imagine the earth in a heated state like a pile of molten lava, cooling from the outside first, and leaving the inside hottest or molten, but we must see that by the theory of a procession of planets, it is not the case at all. Again, the earth may not have been hot all over at the same time, by reason of friction, after it became partly solidified.

Our present day volcanoes, or in fact, any of the volcanoes of the past, that have thrown out lava and ashes, or

any other substance, have been caused by chemical action, the same as the hot springs are operative at this day. This chemical action of volcanoes is local, when we take the comparative size of the earth into consideration. The fact that Mount Pelee and La Sonfriere, are both in action at the same time, does not show that the action is anything but local. They may be connected as, compared with the size of the earth, they are but a short distance apart. I notice in some publication the idea put forth that the volcanoes of Mexico are supposed to be in action in sympathy with those in British West Indies; but they do not seem to be necessarily connected, as the Mexican volcanoes have been in action heretofore when those of the British West Indies were not. The history of volcanoes in and around Europe, where their actions have been observed for centuries, prove the contrary. When one is in action, the others are quiet.

Therefore, if we follow the foundation principle of a procession of planets, it seems to me we must discard the idea of a molten earth inside and give chemical action credit for

the eruption of volcanoes.

In his "Terrestrial Magnetism," Prof. Proctor says: "Interesting as are the bonds of union which Copernicus and Kepler and Newton have traced in the relations of our system, it would seem as tho we were approaching the traces of a yet more wonderful law of association." This great astronomer, had he lived a few years longer, would have discovered the beautiful and simple law of a Procession of Planets, that light, of the expanding power of heat.

SCIENCE THE HIGHEST.

The following encouraging letter is from W. F. Jamieson, secretary of the National Liberal Party, with headquarters at Cincinnati, Ohio:

CINCINNATI, O., August 13, E. M. 302.

DEAR FRIEND HEALD: I just received August number of your "Higher Science." Each month it is growing better and better. If it keeps climbing, it will become Science in the Highest—an Eternal Progression Magazine, as it were.

I earnestly hope you may conquer a success. Freethinkers would be much benefited by reading and studying "Higher

Science." There is need, even among freethinkers, for more study—mere reading and little study is of little practical value. It makes sieves of minds. The race has suffered from too much preaching and too little teaching. You are teaching. It is more important to teach a few good ideas, founded in nature, than to swim in an ocean of oratory.

This autumn it is my intention to issue a small quarterly magazine, to be called "Jamieson's Science-English." I will have a shower of shots from the citadels of learning aimed at the liliputian craft. They will find it a steel-clad "monitor." When an author, or editor, feels he is right, he defies the "world, the flesh and the devil." I come to the newspaper world to bless it, and it will give me more "kicks than coppers"—at first. I have reduced English to science. It will cause the etymologists to turn over in their graves—but I am after the live people. Your friend,

· Editorial ·

Character Is the title of a little 10-cent booklet published by Prof. Ira L. Guilford, the phrenologist, which is a curious combination of politics, religion, nature, science, etc., which is well worth reading. Prof. Guilford is the phrenologist who lectured to the liberal club some weeks ago, and astonished those present by his perfect reading of character.

Story of the Heavens," Sir Robert Ball shows (page 213 to 219) very plainly that Jupiter is much younger than the earth, and in fact now going thru the process of heat thru which the earth passed countless ages ago. His argument and analogy are perfectly sound, but clearly oppose the nebular theory, which conceives the outer planets to be the oldest. One by one, even the older astronomers and scientists are adopting the Procession theory as the only possible explanation of ceaseless motion.

Give 50c

Each for every copy of the December, 1901, issue of this magazine which anyone will bring or send to this office; or we will give a year's subscription or advance your own subscription one

year. A number of the students of the Procession theory wish to bind and preserve Vol. I, but are not able to secure the December number. Five hundred were distributed, and most of them distributed gratuitously as samples. As we had not taken much interest in exposing the rottenness of religion at that time, they cannot have been destroyed in the name of god, as later issues have been.

Outside of Religeon

The practice of medicine is the biggest fraud on earth. The preacher must keep his flock of shorn lambs in ignorance, or he does not get their wool, and the doctor must keep his ignorant patients sick, or make them believe they are sick, as long as they have any money, in order to get it. The multitude are getting wiser, however, and it is about as hard for a doctor to make a living at present as it is for a preacher. The new sciences which relate to the power of mind over matter are opening their eyes, and they are losing faith in M. D.'s as well as in gods and LL. D.'s.

The Liberal Club, which meets every Sunday night at Brent's hall, 534½ S. Spring street, is becoming very popular with the thinking people of the city. Good short lectures, excellent vocal and instrumental music, short psycic, phrenological and other experiments after lectures and the new things of science are what thinking people want now days, and that is what they have at the liberal club. By the way, there is not a finer hall in the state, with its brussels carpets, silk cortains, easy arm chairs and velvet sofas, adjoining parlors, toilet rooms, kitchen and banquet hall.

At This Date 25th, we have received 18 letters of congratulation and endorsement of the Laws of a Procession of Planets, published last month. Perhaps no truth ever before received so prompt an indorsément. When we consider that the majority of its readers are not scientists, it adds to the evidence of the simplicity; therefore the truth of the theory which so rationally explains the heretofore mysteries of the motion of matter. Will our correspondents please accept this as a personal letter of thanks, for your interest, intelligence and encouragement?

Another Religeous Row has been inaugurated in Los Angeles by one of our heavenly father's shepherds, ordering a little child (for of such are the kingdom of heaven) out of his church. The parents of the child are probably in moderate circumstances, but this terrible humiliation may have the good effect of showing them that a preacher is working for his own glory and what other perquisites there may be in connection therewith. If this disabled shepherd neglects or refuses to proselyte the little ones while their heads are soft, he will be without a mutton-head audience when the next generation comes to maturity.

Try Not
To Be

A silly O. S. Old style was good enough
for the olden times, but it will not do for the
20th century. When Moses made god and
god made the earth and the sun and moon, "and he made the
stars also," both he and Moses that the earth was flat and
had four corners. That was a long time ago, and they had
the O. S. Even people who are running the churches know
better, but they are running them for money, and are not honest enough to admit it or to pay their taxes, and therefore
stand as a hindrance to civilization, and will for a while longer
until the finger of scorn shames them into honesty and truth.

Child Sun," is a new theory of the solar system by Judge D. K. Tenny of Madison, Wis. This theory resembles that of Prof. Heysinger, mentioned in October Higher Science. Judge Tenny does not believe the solar system is cooling, but that it always has, and always will, exist without change. We believe, however, that after reading the simple laws and considering the new theory of a Procession of Planets he will heartily agree that it is the proper explanation. We must keep in mind the law that matter expanded from the sun by heat can never return until it is contracted into solid matter, and that electricity is a part of expanded matter.

A Few Sunbays

Sunbays

Ago an able-bodied preacher, in this city, who is supported and chicken-fed by the charity of money begged from women and children (altho he is much better able to work than they are) spent half an hour trying to belittle people who are too honest

and too intelligent to believe the ignorant, immoral and dishonest religion he so fully represents in every way. After filling the air with lies as far as his voice would reach, he finally finished up his unintelligible harangue as follows: "The undevout astronomer is mad." As there are no devout astronomers, inasmuch as it requires a certain amount of intelligence to be an astronomer, it would follow that they are all mad, altho there appears no reason why they should be in this frame of mind. They do not claim to have made the universe in six days, therefore have no reason to be jealous and angry with nature. They are not standing with flaming swords between the people and the tree of knowledge, and they have no desire to destroy and burn forever those who do not agree with them.

ooffe ooffe

- Comments -

If the world was made at all, it was made by the same fellow that made god.—Blue Grass Blade.

The Elsinore Press published our September article, "Scarcity of Water," in full, and gave due credit.

The National Liberal Party have just issued a call for the second annual congress, to meet in Lexington, Ky., beginning January 23, 1903.

Most of us will probably deny it, but sheer laziness is the cause of our allowing other people to do our thinking. If we would remember that we thus put ourselves in their power, it might help us to shake ourselves and wake up.

The Lord gets so mad at a girl because she eats an apple that he curses the whole human race; and can devise no plan to protect humanity from his wrath but to become a father and raise a son, and have his son tortured to death on a cross. This is Christianity.—Paris, Texas, Examiner.

Why, all the saints and sages who discussed Of the two worlds so wisely—they are thrust

Like foolish prophets forth; their words to scorn Are scattered, and their mouths are stopped with dust.

-Omar Khayyam.

The above was not only history, but prophecy as well.

In the list showing comparative number of scientific books issued by city libraries, Los Angeles, Cal., stands first, 11.4 per cent of the calls being for scientifis works. Salem, Mass., is lowest, with 3.4 per cent.—Western Mechanic.

If belief is subordinate to the tests of science, to be accepted or rejected in the degree of its accord with human experience, then it is simply an annex to science, a footnote to human experience, and the authority of the latter is supreme.—Pres. David Starr Jordan, in Appleton's.

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

Prof. Ernest Haeckel (Riddle of the Universe, p. 243).

Truth is the simplicity of nature. The more simple a thing is, the nearer true, and the more complicated and mysterious, the farther it is from the truth. Why, then, will we always be looking for mysteries and complications, when a little good, hard "horse sense" would make these mysteries plain?

J. D. Shaw, editor of Searchlight, the freethought paper at Waco, Tex., writes our townsman, F. E. Sturgess, the painter, that he is about to accept a position to lecture for the Unitarian church of Dallas, Tex. This is a long step for a church to take in the right direction. It hardly seems possible.

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

The planet Mars has no mountains. This shows that its crust is very thin and that it is too young to have evolved higher life than possibly serpents. The stratified crust of the earth shows us the processes of evolution, which Mars must follow and develop, as it radiates its heat, thickens its crust and approaches the sun.

Salem is still infested with the same old breed who burned their intelligent neighbors for witches. The curse of religious ignorance, and the finger of scorn will probably punish them for many generations. Los Angeles being the farthest removed city in the United States from the diseased spot, is naturally the most healthful and intelligent.

The Rev. R. F. Sample, D. D., bewails the fact that "the line of apostolic succession has been broken." This shows that he has more sympathy for the brutal dogmas of the church than for poor, suffering humanity. The reverend gentleman might as well get ready for a big boo hoo, because science will soon make short work of the whole apostolic system.—Free Thought Magazine.

In our Laws of Procession Theory, published last month, law XXIV should read: Comets are bunches of matter, the same as new moons, which formed farther out from the plain of the elliptic, are attracted by the sun and pass the orbit of the new planet without being caught as satellites, continue towards the sun, falling faster and faster, until their speed draws them out into long lines, with their heaviest matter in front, and are illuminated by friction against the gas of expanded matter.

The Sunday Times of September 1st makes a great "todo" because the Japanese have erected a Buddhist temple at Sacramento. If there is a superstition in the world, on a lower grade of morality and more dishonest than Christianity, we would like to help get rid of it. Kanekd, the advanced Japanese, declares that "the bible of the new religion should consist of four gospels—namely, astronomy, biology, chemistry and psychology." A new religion of this kind would be honorable enough to pay its own taxes.

Col. Ingersoll was the legitimate son of human parents—born in their own house, honorably surrounded by all the comforts of home, and yet, notwithstanding these disadvantages, he was the greatest savior the human race has ever known. He saved more souls from the never-ending torments and brimstone fires of hell than all the preachers and priests combined, who ever lived in the world since the "blessed savior" brought the "glad tidings of great joy," that such a dangerous locality existed.—Anna Alex (from address at Ingersoll's anniversary).

The world is distrustful of a man who develops along other than the conventional lines, and who betrays a revolutionary tendency in science, religion or politics. To please their generation, men must be like those about them, and must do as their period does. When a man attacks an accepted rule in law or morals, he is certain of being denounced as a dreamer, a fanatic, a revolutionist and a traitor.—S. F. Bulletin.

As surely as the weights of a clock run down to their lowest position, from which they can never rise again, unless fresh energy is communicated from some source not yet exhausted, so surely must planet after planet creep in, age by age, toward the sun.—Prof. John Tyndall (in "Heat as a Mode of Motion," p. 499).

BAKERSFIELD, Cal., Sept. 10, 1902.

FRIEND HEALD:

* * * I believe you have solved the great mysteries of the solar system and nature. It is all matter, moved back and forth by heat and cold or expanding and contracting of matter. You will never have to give up the \$1000 you offer for a motion made any other way; but I believe the offer will set some of our friends to thinking and "do them good." The strange thing to me is that such men as Newton, Franklin, Darwin and hundreds of other great men, have not, some one of them, discovered it, when it now seems so plain. I want to talk with you about it, some time, as to how you first discovered or figured it out. * * * R. W. G.

A statement by the Anti-Saloon League in the Escondido Times says: "Incorrect information may cause us to err in decision, but no one can truthfully charge us with willful in-

jury or with displaying a malicious spirit."

The principal crime of this league consists in their religious ignorance and persecution. If they were honest enough to pay their church taxes and intelligent enough to perceive that it is high priced liquor (caused by religious persecution) which has brought and keeps the saloon in existence, they might help get rid of this great curse, by striking at the root and bringing the price of liquor down to cost, under which condition the saloon could not exist. The saloon was brought into existence by adding tax penalties, until the price was high enough to make the saloon business pay.





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