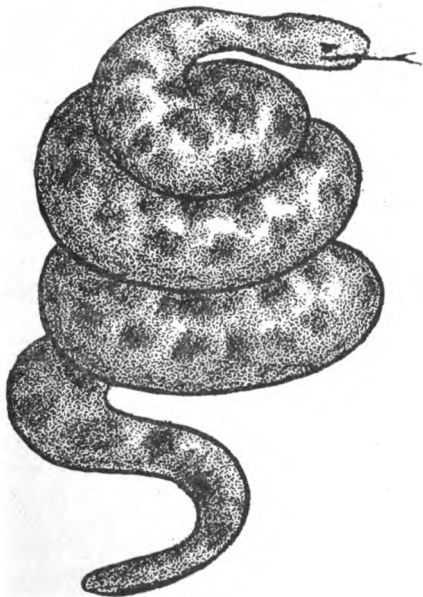


LAVIUS EGYPTUS.



LECTURES

IN

THE PYTHAGOREAN SENATE,

IN THE

TEMPLE OF THE ORACLE OF DODONA.

BY

THOMAS SAWYER SPIVEY.

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To
Prof. William James
with compliments of
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NOTICE.

This book is the sequel to

LAVIUS EGYPTUS,

OR THE UNVEILING OF THE PYTHAGOREAN SENATE.

A Story of the Fifth Century, B. C.

These lectures are the fundamental lessons received by Lavius Egyptus before the essenic body, whose wisdom he recorded for twenty-nine years.

The suggestion that we publish this first edition in the form of a reproduction of our manuscript came to us as we were ready for press, otherwise we might have attempted to display more artistic effort in making the simple drawings.

INDEX.

	PAGE.
PRIMORDIAL WAVES, - - - - -	I
SECRETS OF THE SERPENTS, - - - - -	I
PRIMORDIAL WAVES IN THE LAND, WATER AND VEGETATION, -	53
PHYSICAL MAN A UNIVERSE, - - - - -	113

PREFACE.

I PUBLISH this work to contribute my mite to the wave of thought energy which is now rapidly unfolding wisdom to mankind.

If I can shed one small ray of light upon the fertile soil of the scientific and philosophic field, being so diligently tilled by the great minds of the day, I shall feel grateful for the privilege of thus adding, some, to the growing energy which tends to lighten the burden of these researchers who toil in the best interests of mankind.

My efforts, from both a literary and scientific view, may appear crude even to the casual reader, but so is the humble earth crude and uncouth, yet from its bosom spring our every comfort and joy.

The truth is always clothed in simple raiment, oftentimes appearing obscenely nude to those who cherish false beliefs or selfish views.

The greatest scientific facts rest upon the simplest laws.

These need no gaudy attire; they are clothed in the intrinsic light of good.

As the greater parts of the planetary system shed their benign rays upon the surface of the humble earth, her feeble energy grows into a mighty power, giving birth to living kingdoms.

In like manner, may the great minds of the scientific world find some small grain of truth in my work, worthy to be cherished and watered by their thoughts, that it may prosper, blossom and bear fair fruit, useful to them and their fellows.

I have a rich reward in the knowledge that much of it I have gathered in my own little world. The great and all wise Creator was kind enough to endow me with the power to think and reason, in some small degree, and gave me dominion over my own kingdom, wherein I might analyze and examine all things freely without challenge or cost.

Many of my conclusions may be hasty and erroneous, but if my views, as herein expressed, should lead any mind into a channel of thought leading to a new, or helping to establish an old, scientific truth, then I shall feel that I have been truly useful to my period and my efforts have not been in vain.

I reverence the grand old philosophers of past ages; they were truly great masters; and, I cherish an abiding faith in nature. I make grateful acknowledgment to both, of my indebtedness to them, for generous aid in preparing this work.

THE AUTHOR.

Cincinnati, Ohio, Oct. 1, 1903.



LESSON NO. I.



PRIMORDIAL WAVES

or

THE SECRETS OF THE SERPENTS.

Vital energy is life. In its potential state, it rests in vacuum and darkness.

In its active state, it manifests by vibration, and evolves light.

Vibration creates matter, and from matter physical forms are made.

Matter is of two kinds, inorganic, and organic.

Inorganic matter is still in a state of darkness. Organic bodies have sense, and sense is a quality of light.

Inorganic matter represents a state of exhausted energy.

Organic matter represents a state of radio-activity.

Organic life releases vibration from bondage in matter, and restores it to vacuum, and a state of potential rest.

This is the sum total of the creative act. In it are found all of the phenomena of nature.

The vibratory act is a never ending cycle, unlimited, and unrestrained as a whole, but limited and under control in its parts.

Life perfects and manifests itself in material forms: worlds, suns, moons, vegetables and animals; these are all parts of one great creative act, each part having its specific place and function in the body of the whole, with perfected man as its crowning glory.

Man, in his highest state of spiritual and physical development, becomes the physical manifestation, and personal representation of the first great cause.

If vital energy is life, and the first cause, it must be the conscious ego of the creative process, and capable of recording in its works the evidences to demonstrate and establish its omnipotent nature.

Nature is logical: the law, order and system, displayed in the development of its parts, conclusively establish this.

These are the limiting forces which maintain the harmony stability and integrity of the whole universal fabric.

The animal life upon the surface of world is the last organic product of the creative act, with man, the highest type of animal kind.

There are degrees also, in the development of man to a state of perfection, as marked as those which distinguish him from the lower animals.

In his highest estate, he is endowed with the God-like faculties of abstractive thought, and inductive reasoning.

It is by these supreme faculties man comes into an understanding of nature, thereby learning all of its secrets, back to the very origin of life itself.

When he reasons from cause to effect, he finds, wrapped in the effect, a record and history of the cause which produced it; he then learns to reason back from effect to cause, with unerring results.

Nature kindly provides material symbols of all her hidden operations, in order that man may know the truth and not go astray therefrom.

Every perfected, organized system in the universe is created by the same primordial set of vibrations, and made from the one and original pattern.

The organic life upon the surface of worlds, is a living, breathing reproduction, and record of nature's mental processes, which may be read as the pages of an open book, by those understanding nature's language, the simplest and plainest of all languages.

It is more than passing strange, that our systems of education, practically, ignore the beautiful lessons smiled at us from nature's beaming face. The trees, the flowers, the fruits, the shining metals, sparkling crystals, cunning insects, birds, reptiles and

animals, all bear their specific messages of love and wisdom from God to man. Yet, we take the most superficial view of them.

How can the odd little stamen of the flower be of special interest to us? Why! without it we could have no luscious fruits. Should we not show it deep respect?

What can the delicate petals and leaves teach us? The deepest mysteries of our own existence.

What can the metals concern us, excepting for their uses in the arts and sciences? This is the basest use to which they are put; they are pleading, in their dumb way, to tell us the age of worlds, and of what they are composed.

We bedeck, and ornament our persons with sparkling gems, placing upon them only the commercial value of baubles, without a thought of their intrinsic purposes and worth.

What can the insects tell us, that we do not already know? They are the living symbols of nature's thoughts.

Most of all, what good lesson can come out of a serpent?

The ancient philosophers tried to bestow upon us by their works a legacy, involving the good reputation of the serpent, but mankind has seen fit to brand him with infamy and sink him in ill repute.

Beginning our search for basic principles, and fundamental laws, we look into nature's book for the symbol of vibration. We are mortified and chagrined to find the lowly and much despised serpent

our first teacher. Ere long we will be found making humble apologies to him, and following and watching him, with eager delight, as his friendly trail leads us to the greatest treasures in nature. We shall soon learn to know he has, for some designing purpose, been slandered, and, when we find him so very close to the origin of life, we feel that the ancients who worshipped the serpent, as a physical representation of God, were much nearer the truth, and had a better conception of what God is, than any subsequent peoples.

In animal nature, the serpent symbolises creative vibration.

In its movements, it bespeaks the deepest principles, revealing all of the primordial waves which mark the movements of matter, back to the very origin of life. Even its mode of life resembles vibration, living, as it does, equally well, upon the earth's surface, beneath its surface, and in its waters. It may be said, it penetrates the three elements, air, earth and water, as do the vibrations of life, of which it is the physical prototype. Its habit of hibernating in winter causes it to become the symbol of suspended animation, in a state of darkness.

As it coils in its spiral, , it is the embodiment of expansive energy.

There is a rare kind of serpent, the hoop-snake, which, in this attitude, typifies contraction and potential energy. When it strikes from this position, its highest vibration represents kinetic force.

The writer has had the novel experience of having to dodge one of these hoop-snakes, bounding toward him with tremendous velocity.

This is the symbol so frequently found in the writings of the ancient philosophers, the serpent with its tail in its mouth. The hoop-snake actually takes the end of its tail in its mouth, stiffens its body into a round hoop, and travels down an inclined plane at a high rate of speed. When it strikes its prey, it coils quickly about it, to squeeze and crush out its life. It is a fit symbol for contraction, for, we will find that the force in nature which it represents accomplishes this very thing, squeezes energy from physical bodies, and we have said, energy is life.

It is a long, slender, steel-black snake, quick and snappy in its movements, and perfectly fearless.

There is a much more rare snake, and one, about which there has been much scientific discussion, as to its actual existence, called by some the glass-snake, but known by the writer in his boyhood days, as the joint-snake. When struck, this snake separates into parts.

That this serpent did exist, whether now extinct or not, the writer is prepared to verify, having seen such a snake, separate into several parts, although too young at the time to fully appreciate the importance of a close examination of its habits,

It was a mottle-gray snake about one foot in length, when struck with a twig it separated into several pieces about one inch in length, ~~which were found to be~~

The parts were concave at one end and convex at the other, and showed no blood. They seemed to have been loosely joined together by a dry, thin membrane making it quite^a/fragile body.

We will find, later, this snake fittly represents, the breaking into fragments of rings and globes, in the forming of planetary systems. Its example is closely followed by nature in many departments.

It was commonly believed, the joint-snake, when thus divided, had the power to reassemble its parts, and, if watched, the head would be seen to hover about the spot till the parts were all gathered together. We must admit, we saw no evidence of this in the specimen examined, although, we shared at that time, in the same belief.

In the startling lessons we are soon to learn regarding the serpent, and his attitudes and habits, we shall have to admit that the assembling of his parts was wholly logical, and strictly follows an universal law. We shall have to curb our skepticism very often or believe that nature errs.

It is well known that some snakes swallow their young for protection, ejecting them from their mouths at will. This typifies a very important habit in nature. We shall find our serpent enfolding whole planetary systems.

There is another serpent, not usually classed as such, the common earth-worm. We are all, more or less, familiar with its peculiarities, and have seen it moving as freely in one direction as the other. It symbolises fundamental motions of matter.



It is called the double headed serpent. His expansive rings are typical of the rise and fall of the waters in the earth's surface and the amaeboid-division of bodies in planetary development. When broken in two parts he coils up in two directions. This serpent especially represents the birth or formation of moons.

There is no serpent, which does not, in its chief habits, reveal some fundamental secret of nature. He is the true physical representation of creative vibration.

We are astounded when we learn the marvelous lessons, these serpents, in their various habits and attitudes, teach us.

We cannot help wondering why the teachings of the wise philosophers of past ages have not been heeded. They knew the secrets of the serpents. By a careful study of their ancient writings, surely some one would have discovered the underlying secrets, which

would have saved to the subsequent scientific investigators, endless experimenting, blundering and guessing.

The serpent actually presents us with the key to the universe, with all its wondrous wisdom, and vast hoard of treasure.

Now let us prove this broad assertion.

THE SERPENT DELIVERS HIS MESSAGE.

The primary movements of the serpent, which reveal first and fundamental principles, are:

The coil of the hoop-snake, , representing potential energy - energy pent up.

When this energy releases itself, it represents kinetic force in its three positive waves,

, represents explosion.

, represents waning energy.

, represents exhausted energy.

These are the three waves of first activity. When once started, they must continue to the end. They cannot jump over each other nor regurgitate back into each other.

The hoop-snake, in the highest degree, typifies first principles.

The attitude of the hoop is its virulent state, 

From this position it strikes, assuming the fine wave of kinetic

force, , and quickly coils it's long slender body about

its prey to squeeze it.

As the pressure relaxes, the body assumes the long wave of waning energy .

When its energy is wholly expended it assumes the dead-line  of exhaustion, after which, it slowly coils up to rest and recuperate in the spiral coil , a state representing both expansion and contraction, in the same body.

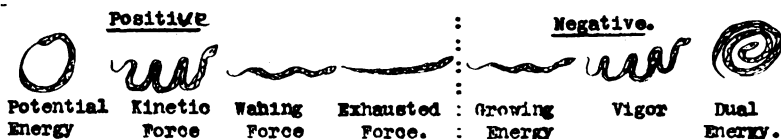
These are the primordial waves of creation; they are universal. No act of God or man can be consummated without them. Every act of creation had its positive beginning in this same set of vibrations.

This is not, however, the whole creative act; it is the positive beginning. In assuming the spiral coil of rest, two of the positive waves are first revived into a state of negative activity, , becoming the negative wave of growing energy, , the negative wave of vigor, and all coiling into the recuperative coil, . We see in this process, peace and gentleness, whereas, violence was the chief characteristic of the positive waves. Pent up energy always seeks release by violent explosion, while energy scattered and spent, recuperates slowly, and by steady growth.

The positive waves travel from a centre outward; the negative waves travel toward a centre; therefore, the positive waves rep-

represent the power of repulsion, and the negative waves represent the power of attraction.

This reveals the following waves, and states of energy:



Thus, we see energy transfer itself from a state of forced rest, through its several stages, to a state of expansive rest with the dual nature of expansion and contraction in the same body.

When we carefully analyze the four primordial waves, classing the spiral as a wave, we find them all, parts of one impulse, and this impulse originating from the potential centre; then, this potential centre is the seat of energy and the starting point of impulse. Impulse is one entity, assuming the subsequent phases, and each of these phases is a special stage of development in one creative act.

As the spiral coil contains the other three waves we should expect to find it a body of four-fold powers. Whatever characteristics the three positive waves possessed this new state will also possess, in addition to the latent qualities developed by this new condition.

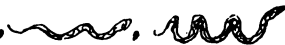
But, as we traced these waves back to the original hoop, all of these characteristics must have originally resided therein; this original centre then must be taken as the centre of potential energy, and this energy is transmitted by impulse, an inherent quality, and impulse unfolds the latent characteristics which manifest the states or condition of energy, in distinct and well defined planes, the last plane of positive action being, the crystallization of pure vibration into inorganic matter.

From inorganic matter, coils or develops, a body capable of expansion and contraction, a state of self control.

We will find this to be the plane of organic life. This coil is the original organic ovum.

To come quickly to the truth, we propose to demonstrate, that, the creative process starts in vacuum, proceeds, by a set of positive waves, which end in inorganic forms, and, that organic life is simply a reversal of the process solely intended to release and return energy back to vacuum and the potential state, in order to maintain balance between the positive and negative forces in the universal economy.

Between the beginning and the end of the creative act, will be found, all of the phenomena of nature.

The development of organic life unfolds two other waves, secondary positive waves,  .

These restore vibration to vacuum, a state of potential rest, 

It is not our purpose to enter into an elaborate and technical description of the origin and development of planetary systems, further than to fully demonstrate our wave theory: in other lessons we devote a separate part to this special subject, but, in our redemption of the much abused serpent, from the debased position he now occupies, by proving him to be the bearer of fundamental secrets of nature, we shall have to, more or less frequently, refer to the universal scheme, and its numerous parts, and, to avoid obscurity, we shall elaborate these references, sufficiently, to clearly convey the lessons we desire to impress.

We do not desire, or invite, discussion or argument, but simply to convey, as interestingly as possible, a series of peculiar facts, mainly gathered from our analysis and interpretation of natural phenomena, accessible to all alike, believing them to be of fundamental value to science.

We, thus early, state our position, in order to avoid misunderstanding, for, we shall often assume for granted propositions, the arguments for which have been made in other lessons.

We have seen the spiral coil is a body, in which are expansion and contraction. The first coil or hoop did not exhibit the expansive control of its parts; therefore, this is a new power born with the waves, becoming a new active force to co-operate with the force of contraction in the spiral coil.

Had exhaustion been the annihilation of energy, contraction would have died with it, and expansion would never have assumed the dignity of a balancing force. The spiral coil of organic life would not have been born, and the dead line of exhaustion would, truly, have meant death; therefore, when all energy was expended life would have ceased to be.

If the first or positive waves are the effect of the first impulse, we should be able to trace back to the origin and find the cause of the impulse, but, we find, this impulse originated in the violent breaking up of the potential ring, and we find in its stead only vacuum; then, with the impulse, was carried the energy, or the impulse must, itself, be energy.

We must assume the latter to be true, and that energy has released itself from its potential state in vacuum, and is now imprisoned in matter, another state of being, then a state of energy, and being and energy are one and the same.

As long as energy exists in a body, continuity of impulse or wave must exist, and these will be seen following each other in their original order when activity is manifested.

Our faithful serpent, by his recoil, proves to us that the dead-line is not death, energy is but slumbering in inorganic matter. Then, death is not the end, but is the turning point; where repulsion ceases, and attraction begins, preparatory to the release of

energy and vibration from bondage in the crystallized state. As we have said, in this process are involved all of the phenomena of organic life, the vegetable and animal life upon the surface of worlds.

Organic life begins in the spiral coil, which has become a coil of vital energy, having made for itself, out of its inherent qualities, a physical body capable of sustaining organic life.

Having the powers of both expansion and contraction, it exerts a control over its vibrations which the original ring, with only the power of contraction, did not possess. The spiral coil has the power to release its waves, and draw them back again.

Now we are to contemplate a very serious phase of this proposition. The impulse or energy, which has produced all that we have examined, must either have originated from life, or is life itself. This is evidenced by the fact, that we saw it start from vacuum, and upon tracing it back we found only vacuum. It is at once apparent, that energy, itself, is life, and it has the inherent faculty or power, to transfer itself from one state of being to another, or to create itself into another state of being.

If it were life originally, resting in vacuum, and is now life, residing in matter, it must be the first great cause, capable of transferring itself from one state of being to another. We will find it equally capable of releasing itself from matter, and

returning itself to vacuum. Therefore, life, in whatever phase we find it, is the same first cause, adjusting and readjusting its states of being, in which process we never see life extinguished, but we see the ultimate annihilation of material bodies.

If it originally resided in vacuum, and seeks to return to vacuum, then, the potential state must be the beginning and the end, and potential energy is the original being. "I am Alpha and Omega, the beginning and the end." We have found God. God is vital energy or life. Energy creates all things. If God is vital energy, and energy rests in vacuum, then vacuum must be the heaven; God's Kingdom is in heaven and his hosts of angels are vibrations.

We have found more; we have discovered the origin and nature of matter, the opposite of vacuum. It is the dead-line, where repulsion ceases and attraction begins. The force of repulsion may exist without a material body to act upon, but attraction can only act upon matter.

Repulsion is from a centre, and attraction is toward a centre. Now, if the push is from the centre, and, we have already seen the positive waves come out of vacuum as the centre, and the pull is also toward vacuum, again, we are compelled to admit, vacuum to be the centre of life, the beginning and end of active life.

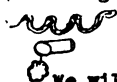
God, as a creative being, must be an entity; vacuum cannot be an entity; vital energy is all we can find in vacuum. Therefore,

vital energy must be God, the first great cause.

An entity has relations to its parts, a basis for comparison is found in its several states of being. Potential energy, the first cause, is a state of potential being; it is matter resolved into pure vibration, and having the inherent power of reproduction of its parts. This reproduction of parts, however, is limited to four prime states of being, the last state establishing the first true atom of matter, in the sense of a fixed body. Beyond this fourth state primordial waves cannot divide. This is the origin of species. But secondary states relating to molecular combinations, to which are transmitted all of the atomic habits, and senses, are multitudinous. This is the origin of kinds.

The power of reproduction is an inherent quality of matter, transmitted from the atom; it is the power of anaeoid division. The four prime vibrations coil into a potential ring, .

This first living spark of matter we call the atomic ovum. It separates into four parts and these are our four elementary atoms of matter, which enter into and make the first molecule. We now find our vibrations have taken material bodies, symbols for which are here given.



We will give to these atoms well known names.

Nitrogen.

Oxygen.

Carbon.

Hydrogen.

Thus the spiritual substance forms primordial combinations and manifests in crystallized substance.

The habits, traits, senses and powers, of atoms are transmitted to molecules and material bodies, to govern their motions, and their relations to each other. These laws are simple and few but eternal and universal.

We now have vibration clothed in matter, and limited by the law, to four prime atoms. These are the first and lowest material forms, existing in a free or gaseous state, homogeneous in its original mass but specialized and differentiated by separation.

The union, and annihilation of these prime atoms, in all their qualities, into a new homogenous substance is the formation of the first material molecule, the molecular ovum.

This gives us our first lesson in mathematics.

We subtract matter from vibration.

We divide matter into elementary atoms.

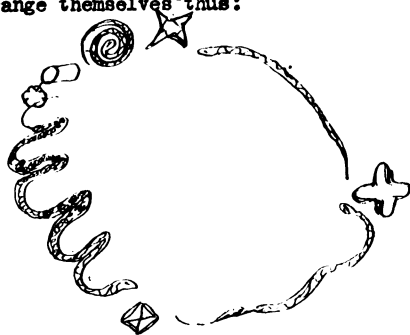
We add together the four prime atoms and make the first molecule of matter.

We multiply molecules and make physical bodies.

From the molecular ovum, physical bodies, having complex natures, are born.

We will examine the process by which molecules are made.

The first sense transmitted to the atoms, is, pursuit of each other, in the order of the vibrations they represent, and we see them arrange themselves thus:



In order that we may have a plausible reason for this pursuit, we must understand the qualities causing it.

-  Nitrogen  represents cold.
-  Oxygen  represents heat.
-  Carbon  represents dry.
-  Hydrogen  represents moist.

We now recognize conditions familiar to our senses, and also know they must refer to material bodies.

As we unite these atoms into one body, we shall find the process exceedingly simple.

Dry devours moisture.

Heat devours dry.

Cold devours heat.

And thus we see nitrogen has swallowed up all the others; then, in his determination to annihilate energy he swallows the end of his tail, and attempts to swallow himself, and . . . the molecular ovum is formed, a potential globe; The molecular ovum, because, out of it are born molecular bodies.

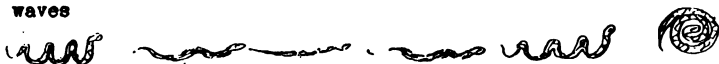
A little careful inspection reveals that we have, here, the nucleus of a complete physical world, carbon and hydrogen are united, and oxygen and nitrogen have surrounded them as an atmosphere, but they are all crushed into a hollow shell or globe and become a homogeneous body, a globe of ice.

Confined in this shell of ice, are all the prime vibrations in a potential state, and thus we see contraction unite the four prime atoms into one body, in a potential state, the atoms being annihilated in the molecule, to which they have released and surrendered all their vibrations, together with their habits and senses.

Nitrogen being the annihilating element, formed the outer shell and drew all the other gases up to Him, forming a hollow globe, with vacuum in its centre.

In this molecular body atomic action is suspended until again awakened.

Potential, within the molecular ovum are, the six primordial waves



which have been released by the destruction of the atoms.

That which is true of molecules is also true of large bodies, because they are but aggregations of molecules. Their elements arrange themselves in exact accordance with the fundamental laws governing atoms and molecules; therefore, when planetary systems are formed we find primary rings, molecular globes of ice, and other reflections of first principles. When bodies or systems break up, they follow the same laws as atoms and molecules in relation to their parts.

The principal senses transmitted by the atoms and molecules to bodies are,

The sense of atomic activity,  .

The sense of molecular activity,  .

The sense of orbital motion,  .

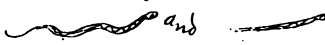
The sense of axial motion,  .

All of these, and very many other senses and habits, reside in the molecule, ready to spring into the active state upon being released.

In forming the molecule, the only habit of attraction was atomic, therefore, a hollow globe was formed, the atoms, in their desire to escape, followed the new sense of repulsion, but this force was stopped at the periphery by the formation of the shell, leaving the hollow space after the cold had swallowed up all the atoms. In the previous arrangement of atoms there had been no

example of a central body of attraction to balance this outward pull.

We will now assume this globe to be an immense body, instead of the first molecular ovum, and allow it to develop. As it is matter, the nature of this globe is that of ice.

It is a contractile body, with continually increasing pressure upon its centre. This constant pressure generates internal energy. It is internally releasing the atoms and filling the interior with gases. First, the nitrogen wave  is set free, this first positive wave, we know, begets the others,  and these three roll up into hydrogen  and now ^{we have} within our globe a material body, in a gaseous state, and independent of the outside shell: which is pressing down upon it, a condition to cause a conflagration if a vent should occur, or explosion, if there is no vent to relieve the pressure. Constant pressure without vent, causes heat without fire, or pent energy.

The persistent contraction of the outer shell of the globe finally, generated an expansive force within, greater than it could hold, the result being, it broke in fragments and flew out into space, leaving the central gaseous body a blazing sun, an incandescent mass of gases. This is the central sun of a new planetary system.

We are taught by physics, that all bodies in vacuum, fall at the same velocity, regardless of size or density, but, where bodies of the same density, and specific gravity, are cast out into space by the same initial force, with no resistance in front of them, the larger bodies will go the furthest from the point of first projection.

This is exactly what happened in this instance. This whole outer crust was a conglomerated mass of frozen matter, with atomic and molecular action suspended. The globe divided into six parts, corresponding in size to the position they were to take, arbitrarily fixed by the planes of the special atmosphere previously formed by the great body.

As the monster globe neared the period of explosion it commenced to prepare for the birth of its family of planets.

Every world must build itself an atmosphere before it can produce external life. The external life of this central globe, will be the whole system about it, when developed.

Pure ice is transparent, like glass, Much of the external surface of the globe was of this quality, therefore, when the internal energy grew to a bright light, it penetrated the external icy shell, and formed a dazzling corona from the outer surface, putting the whole body in a condition of radio-activity. Ice, like vacuum, is a medium for light, but not for heat. Heat, however, is latent within the ice and manifests itself in light.

Pure, primordial vibration is thus being radiated from the frozen orb, due to its internal energy. It is building its atmosphere, as a future home for its children.

We know that a series of positive waves once started out into space cannot stop until it has passed through all of its parts to the point of exhaustion and finally to the rest of potentiality.

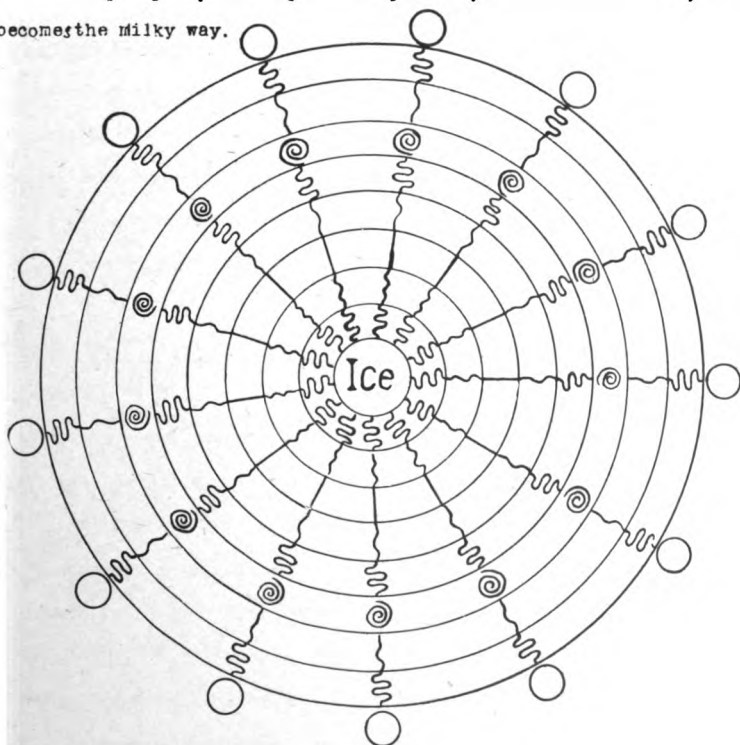
As the energy radiated from the globe, there was formed about it an atmosphere of pure vibration, in eight distinct planes, corresponding to the eight waves which transmit energy from vacuum to vacuum.



In this, we know, resides the power to produce pure hydrogen, which forms far out on the periphery, where it evaporates, forming the other two waves , the liquid or molecular wave, and , the atomic or gaseous wave, and there coil up in external vacuum into primordial atomic ova. This is the exterior of the sun's atmosphere. It is the spiritual body or nervous system of the planetary system. Everything in nature resides in one of these planes as its special position in the universal economy. Its own external development, follows exactly this pattern and these rules.

The following diagram will illustrate the eight planes:

Eight planes of the sun's atmosphere. pure vibration, radiated from the frozen surface of the original globe before the birth of planets. The outer periphery is composed of pure crystalised vibration, which, later becomes the milky way.

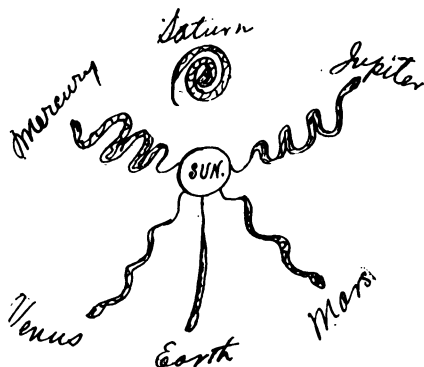


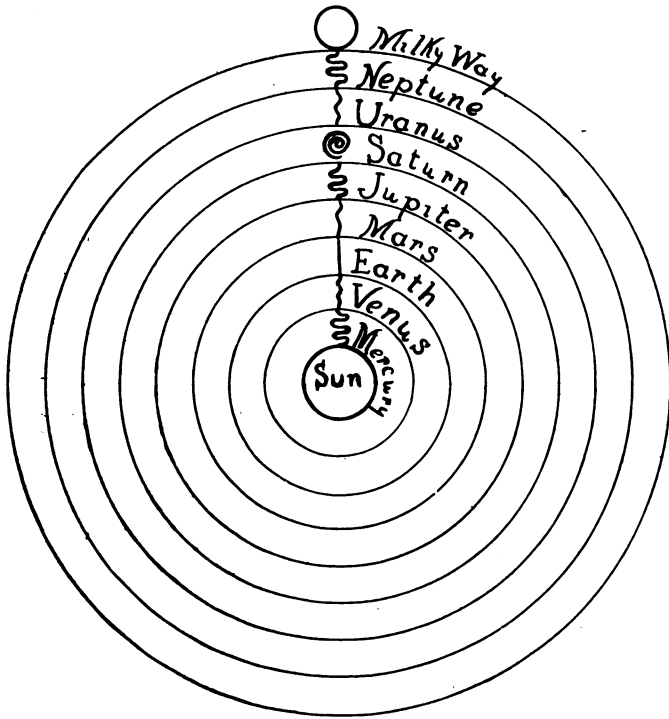
The hydrogen sphere supplies the moisture for the physical worlds. Each fragment of the outer shell sped out into space, drawing after it a gaseous tail, not of its own creation, but clinging to it, and released the primordial gases in the order of their continuity, each fragment when stopped.

having the atmosphere represented by the wave at that point. And, now, we are to see a curious manifestation of first principles. In forming the molecular ovum, we found, the ice had swallowed up the four prime atoms, nitrogen , oxygen , carbon  and hydrogen  therefore to be released, are the six waves which we know this molecule contains,     and, singular to see, these waves manifest themselves in perfect order of continuity in an orbit around the centre, with a planet at the end of each wave.

This diagram will reveal the marvelous consistency of these vibrations in their pursuit of each other.

These are the individual waves taken by the planets as they assume... their balance in the sun's atmosphere:





This larger diagram shows the position of the several planets in relation to the planes of the sun's atmosphere.

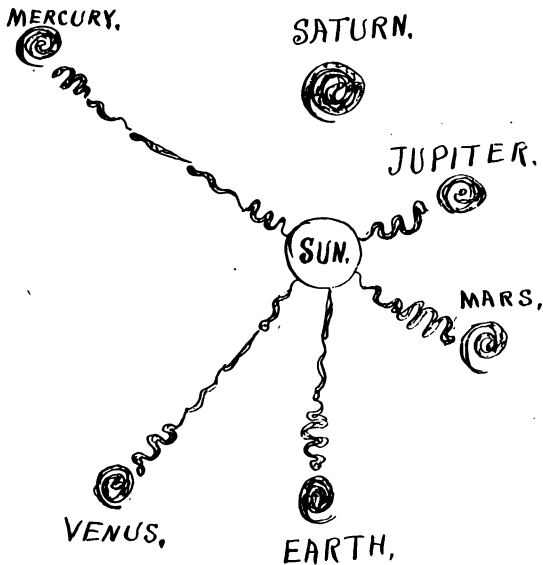
Being the product of explosion, these are all positive waves, with reference to the centre, but the two negative waves, which form the spiral coil, are found in their proper position, with reference to their orbital continuity.

We see the waves arrange themselves around the center in their regular order which enables them to begin an orbital march in pursuit of each other, at the same time, continue their positive course of independent development. When the bodies begin to circle around the sun in regular orbits, we see a new force commence to exert its influence in an attempt to draw the planets away from the centre. This is centrifugal force. It is due to a tendency of the positive pull away from the centre to draw the planets out of their orbital course, and away from the attractive point.

It is a law in nature, for a body broken off from a fixed body, to remain a satellite to the parent body. This is the origin of parent and child. This is centripetal force, which helps to neutralize that of centrifugal force. We will soon learn that axial motion combines with centripetal force to keep the system in balance.

It will be observed, as a curious fact, that the planets furthest away from the center first develop the spiral coil, which, in planets, signifies axial motion.

This diagram will suppose that each planet has completed its independent development to the spiral coil of axial motion, in order to demonstrate what we have just said, although the system



has not yet arrived at this state of perfection, as we shall soon see. Moreover, these waves do not necessarily signify the relative distance from the central sun of the several planets, we having taken as our starting point the waves at the time of balance.

It will be remembered that we saw the serpent spring from his virulent coil , executing, first, the fine vibration of kinetic force , next the wave of waning force , and following this, the dead line of spent energy , the end of positive vibration; then, as the serpent began the re-
 operative act, we saw creep out of the dead-line, the first wave of negative activity , which is molecular motion, following this, is the finer wave of atomic activity , and the serpent coils in a state of bodily repose, , with atomic and molecular activity within.

This state of repose signifies a condition, in which, there is harmony and balance between the atoms and molecules of which the body is composed, and they cannot be attracted away from it. It is then, we see, all of the primary laws begin to operate to develop organic life upon the surface of the globe. The waves which produce life are identical with those we have already examined. They necessarily act with reference to the planet as the central body.

It is also a fundamental law for lighter and smaller bodies to follow heavier and larger bodies, molecules cling to bodies and atoms cling to molecules, and thus we may see the connecting links between all the parts of our newly-made planetary system. Far out from the centre are the ponderous heavenly bodies, like

Saturn and Jupiter, the vast distance equalizing the force of direct attraction; while Mars, the earth, Venus and Mercury trail in their wake in importance, while the great gaseous centre holds tightly to all, not only by the indirect wave which binds the planets to each other throughout the system, but also, by the atmosphere which it throws around the whole. In the beginning it is a centre of burning fury with a tail of ice coiled far out about it. In time we will see this same coil transformed into a body guard of organic life.

It is true, the direct body of Saturn is much smaller at the present time, than Jupiter. This discrepancy is accounted for by direct loss of bulk due to evaporation, it being in a liquid state at the time it assumed balance. It has contributed, largely, to the bodies which form the connecting links between the inner planet and the vast outer body of the system.

We must also understand the cause for the prodigious proportions of the central sun. The sudden release of the enormous volumes of gases compressed in its interior, at the time of the break up, caused the gaseous body to quickly expand and push out the planetary bodies, until its own body had expanded to a size one million three hundred thousand times as great as that of the earth.

This central body is rapidly cooling and contracting, which

signifies that it is returning to a liquid state which will, later, develop into a solid state.

The atomic sense is for division and expansion.

The molecular sense is for union and contraction.

These senses are transmitted to bodies and systems.

These antagonistic forces, develop vegetable and animal life upon the surface of worlds. In organic bodies they represent destructive assimilation and nutrition.

We have seen, the spiral coil is the organic ovum, and marks the period of axial motion in planets. Then we may expect to find the first life appear upon each planet, approximately near the time it first begins to turn on an axis, by which motion, the larger part of its surface is brought periodically towards the central sun. Then, organic life depends upon the influence of the sun for its initial development, and it is possible, even probable, that life on one side of the earth could have preceded axial motion.

We will now assume, that the breaking up of our molecular ovum was the development, out of a vast central body, of our own planetary system, in order that we may continue to follow our law of vibration into all the planes of ^{the} development of worlds. We shall give to these fragments the well known names of the planets.

The explosion which sent the several planets out into their respective places, left in the centre, a vortex of burning hydro-carbon gas, with a surrounding corona of oxygen and nitrogen.

It is a burning world, the opposite of our new worlds. The one must cool, while the others warm to a state of life.

While each of the planets retains its own special atmosphere, evolved from ~~within~~ its own body, they all float in the primary breath or atmosphere of the sun, and thus, we see, we live wholly within the atmosphere of the sun, by virtue of our atomic kinship to the parent body.

We know the immediate outer nitrogen coat of the central sun is cool and is always pressing down upon the burning centre in an effort to condense and cool it.

As the mass gradually condenses and contracts, it develops a stronger tendency to draw the planets back to it, thus showing a positive attraction for solid bodies which it cannot exert upon its own atmosphere which emanated from the outer globe before the explosion, with consequent breaking of the wave continuity.

The planets, therefore, are kept balanced between the two pulls, that of central heat, and that of peripheral cold. We shall see later how carefully this balance is maintained by the creation of moons. The only planetary heat generated is a negative heat, produced by the resistance of the atmospheric pressure.

The sun does not send heat direct to the planets, but through the continuity of their energy waves and the mediumship of their atmospheres. The light of the sun becomes converted into heat

upon meeting the resistance of the atmospheres.

Each planet must evolve its own surface conditions as did the parent body before it, by atomic and molecular action. In this atmosphere develops its organic life.

The actual heat in the sun is consumed for purposes of its own development, yet, it dispenses sufficient light or energy to each planet to fertilize it and enable it to unfold. The Persian Zoroastrians believed, that God resided in the sun, and addressed their prayers to it.

All organic life is efferent, unfolding from within toward the periphery.

~~We~~ do not picture our planets in the same diagram showing the atmosphere of the sun, because the two sets of waves would conflict with proper understanding. It is the independent planetary waves we are to follow, the ~~waves~~ of matter.

Each planet stopped in one of the photospheric globes of the sun's atmosphere and that at once becomes the key by which to determine its stage of development.

The shock of the explosion of the inner globe also shattered into fragments the mass of crystals which had formed far out upon the periphery of its atmosphere, and the resultant expansion and heat developed throughout the system tended to melt and reduce them to liquid globes. This is the water above the firmament.

These gradually assumed a vast ring about the equator of the system and became stars capable of developing into suns and moons, but not planets. They have subsequently arranged themselves into systems.

In their first state we would find the several planets under the following conditions:

Mercury; in the cold corona of the sun, with much light, but no warmth. It is still a frozen mass. No organic life can exist there. It radiates reflected light.

Venus; is in the wave of positive warmth, resulting from the close proximity of Mercury which adds reflected light to that of the sun's light, giving a moist warmth. The planet is surrounded by vapors not suitable for local surface life.

The earth; inert, without warmth or moisture, a conglomerate mass of matter without any appearance of life, beyond orbital motion. It at this period has no atmosphere excepting the breath of the sun. It is void and without form.

Mars; the first negative planet. It has reached that stage where it has developed an internal warmth of its own. Molecular activity is aroused, which will, ere long, develop a condition of life.

Jupiter; the second negative planet, has developed an atmosphere which, with other conditions right, would sustain life. It has developed atomic activity which will rapidly prepare the way for organic life.

Saturn. We have observed, as a curious fact, that the planets furthest away from the sun develop axial motion first, and, as axial motion is the beginning of organic life, we find Saturn prepared to enjoy the first organic life, having developed to a condition, at once, cool, warm, moist and dry and suitable to sustain life.

Thus we see, each planet shows by its wave just how many removes it is from the life period.

Jupiter is one remove, and will next come into the life plane. Mars next, then the earth, followed respectively by Venus and Mercury.

There have been vast changes since this original arrangement. We will diagram the successive changes and this will, at the same time, reveal a curious consistency on the part of our faithful serpent.

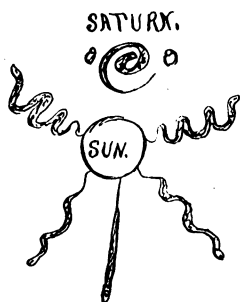
Saturn was first to reach the end of the creative wave, and assume the spiral coil of axial motion and life. The others follow in their regular order as shown by the following diagrams, there being a constant and systematic progression. As one planet comes into the life plane, all the others are moved forward one wave nearer to the coveted goal.

Each planetary revolution brings all of them forward one wave and this represents the period of time which this system requires to complete its orbit around some greater centre beyond, approximately twenty five thousand years. This would give one hundred

and twenty five thousand years as the period, since vegetation first appeared on Saturn. Yet, all of the planets may contain petrified remnants of former life ^aperiods of the central sun, millions of years old.

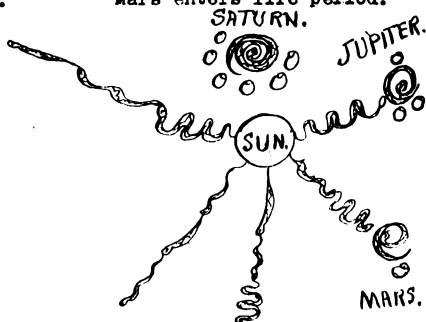
1.

Saturn develops organic life.



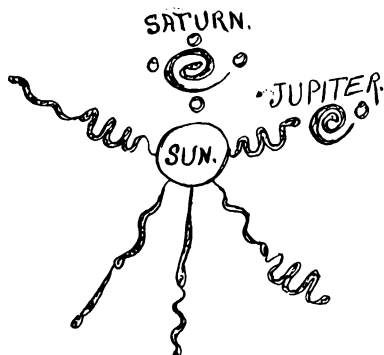
2.

Mars enters life period.



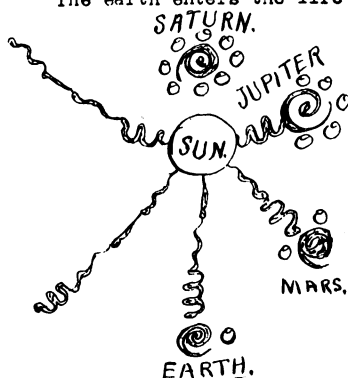
3.

Jupiter enters life period.



4.

The earth enters the life period.



Uranus and Neptune are the links between the inner system and the outer body.

These diagrams illustrate the progression of life upon the planets to the point where our planet, the earth, comes into her first period of organic life. Venus and Mercury have not yet arrived at this state.

There is a curious fact revealed here. It will be noticed we have, in our diagrams, designated the usual number of satellites about each of the planets, Saturn having eight, Jupiter five, Mars two and the earth one, while those planets which have not developed life have no moons. We will say briefly here, that moons are formed in two ways.

First, when a frozen orb is turning around the sun in an orbit, one side of it is presented always toward the sun. Gradually, the icy crust on that exposed side thaws; forming a sea, with strong warm currents, which gradually undermine the other hemisphere of ice, until it has not the holding power to remain attached to the liquid part, and it flies out into space, but true to the law, it remains a satellite of the planet from which it is released.

The second manner in which moons are created is by accumulations of ice at the poles of planets after they begin to turn on an axis. These masses, in a similar manner, are periodically cast off by the planets.

It must not be thought that either of these methods is accidental. On the contrary, they are according to a fixed law of reciprocity intended to maintain balance, as we will prove conclusively.

Saturn is the only planet which did not first cast off a single moon.

This planet was in a liquid state when it reached its state of balance, therefore ready to form moons at the poles, and the first birth was twins, but all the other planets first gave birth to a single moon, and afterwards twin moons,

The first act is to give to the planet a helpmate. The second is the birth of twin children.

We are now able to demonstrate one of the most startling facts in our whole lesson.

After a planet has entered the life period, it practically continues in that condition until the entire system develops life. But this does not signify that life does not periodically undergo prodigious changes on the separate planets.

The birth to a planet of a set of moons marks a period when systematic life upon its surface virtually disappears, because it means a cataclysm, in which the planet is changed in its every physical feature. The ocean becomes the land and the land the ocean. The poles become the tropics and the equator the poles. It is the planetary winter.

It begins life all over again, new animal and vegetable forms appear, while only remnants of the past are found. Yet the atmosphere essential to life, remains, perpetuating the life period.

When this occurs on one planet, it occurs on all the others simultaneously, as we can now prove, by the moons which have been born to the system.

Warm seeks dry, and moist seeks cold. If there was no disturbance of this tendency, it would so disarrange the elements that motion in matter would cease to be. Therefore, warm and cold are made to change places periodically, and replace the bodies of land and water which they have surreptitiously rearranged, over long ages of time. We elaborate on this in the following lesson.

The first life period of the planetary system began with two moons, the first satellites of Saturn.

When Jupiter came into its first life period, with one moon, we are surprised to find two more satellites also about Saturn.

When Mars comes in with one moon, two more moons appear around each, Saturn and Jupiter.

When the earth came in with its first moon, two more moons appear^{ed} about the other three planets.

This accounts for eight moons to Saturn, five to Jupiter, three to Mars, and one for this earth.

we are aware this arrangement gives one more moon to Mars than it appears to have at the present time. We explain this loss in another part of this lesson, in which, we also refer to Uranus with its four moons, and Neptune with one.

We are quite satisfied with this close count. It demonstrates, we think, that the birth of these moons correspond to the great planetary winters, and their simultaneous appearance proves that the whole system is affected at one and the same time.

Our earth is piling up the ice at its poles preparatory to the next cataclysm; when Venus will give off her first moon; then the earth, and all the other living planets will receive, ^{two} each more moons.

We thus observe the conditions of life gradually approaching nearer to the sun. It intimates that in time, the sun itself will have sufficiently cooled to permit of life upon the surface, when life will appear simultaneously throughout the entire system.

Energy, warmth and moisture will have been so uniformly distributed, a central sun will not be necessary to maintain balance between cold and heat.

The planets, themselves, will have developed into suns, and the moons about them will assume the dignity of planets.

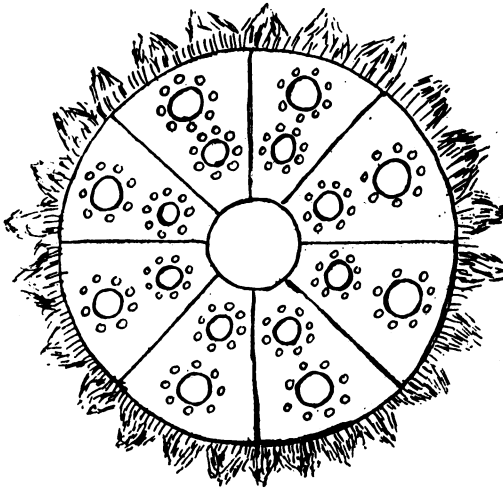
The period of perfection will come when each planet has developed eight moons and perfect balance exists.

The crowning act will be the simultaneous amaeoid-division of every planet and every moon in the system. Then will appear the great heavenly angel-whose measurement is "one hundred and forty four" (144).

THE PERFECTED PLANETARY SYSTEM.

"THE HEAVENLY ANGEL."

—144—



Nature always provides symbols to illustrate her processes. There are, in the vegetable kingdom, many resemblances to this perfected system. In the elementary animal world, also, some strikingly similar forms are found, for instance, the Norwegian Plimmer-ball (Magasphaeria-magic-ball). A cross section of this remarkable protozoan reveals a picture of a perfected system.

Our perfected system will be surrounded by a solid ring of pure nitrogen which will radiate light to systems beyond, to which, this system will appear as but a single star.

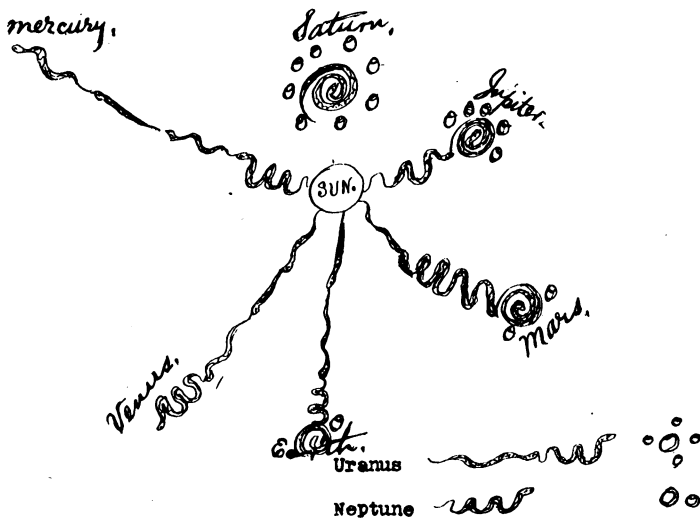
It is natural to ask, why we believe this perfected system will assume this form.

We arrive at it by calculations based upon the system as it now appears.

We will attempt to illustrate the balancing power of the moons, showing them to be an unerring guide to what the future of the system will be.

This diagram is of the system at its present stage.

For each wave in our whole system, signifying the movement forward of a planet, we will find a moon has been born at some point in the system to balance it.



Planetary Waves.

4 Mercury
4 Venus
4 Earth
3 Mars
2 Jupiter
/ Saturn
2 Uranus
/ Neptune
21 vibrations.

MOONS.

21 MOONS.

We have, up to the present time, made twenty one planetary waves. This includes two waves made by Uranus, and one by Neptune. We have had no occasion to refer to these two planets, yet they belong to the system as secondary planets, not secondary in importance but in consideration. They are the connecting links between the inner system of six planets, and the great belt of stars called the milky way, and formed by the breath or atmosphere of the sun, independent of the planets.

The very remarkable thing is, we find balancing these twenty one waves, twenty one moons.

Our hoop-snake has kept busy coiling into frozen moons as often as a counter movement is made by activity, requiring new balancing power between heat and cold. Moreover, it, in a way, accounts for the disappearance of one moon from the planet Mars, in order to maintain balance at this point.

We will now refer wholly to our own planet, the earth, knowing that what is true of one planet applies alike to all. Our future tracing of vibration will be in this planet and its life.

When that fragment which formed the earth, developed to that degree which gave it all the motions of a living world, we find it travelling in an orbit around the sun, also turning on an axis.

It is partially fluid, associated with solid or earthly matter.

It has an atmosphere suitable to sustain life. Its internal heat has warmed the waters to a degree to form a mist to go up, and fall upon the land as rain.

It is important we should know the process by which the earth arrived at this degree of perfection. True to our early proposition, that Nature always provides a symbol, to aid us in interpreting her secrets, we find a beautiful lesson in the four phases of our own moon.

When our earth was first cast out from the central body it was in a solid state, therefore, it was only possessed of orbital motion. It commenced to follow the example of the other planets and revolve around the sun in obedience to the law of one body pursuing another in an orbit.

It was a frozen mass of conglomerate matter, therefore, no light could reach its interior to develop warmth therein. It could be said, then, to be 'in total darkness.'

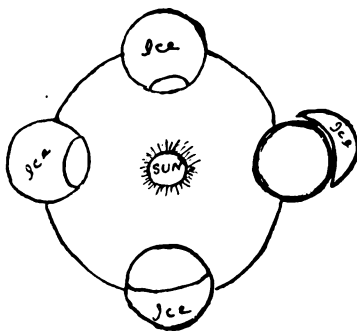
The orbital motion gradually warmed the surface sufficiently to release free oxygen. The oxygen pressed the cold up from the surface till an atmosphere was formed, and through this medium penetrated the light of the sun, . This united with oxygen , and oxygen with the carbon of the earth, , and warmth followed, and this is the combination to make water by melting the ice.

Still, we have no means of turning the earth on an axis.

God has given us a sun to "divide the darkness from the light," but inasmuch as only one side of the world is toward the sun we find light perpetual on that side, and darkness perpetual on the other. We must have another great light to make alternating "day and night."

As the masses of clouds, generated on the warm side, roll back in great billows along the borders, a ring of ice is piled up, miles high, around the edge of the warm hemisphere. The warm seas encroach upon, and gradually undermine the frozen mass until it can no longer hold to the earth, but flies off into space,

True to the law, that bodies thrown off from another body remain within the attraction of the parent body as a satellite, this mass becomes the first moon to the earth, and it has shown us ever afterwards the manner in which it was formed.



Inasmuch as the moon is of the bone and flesh of the earth, it has the orbital habit and at once assumes an orbital movement about the earth, and the latter at once assumes axial motion. This is due to the pull of the moon at the ocean, and the pull of the sun at the land, through the oxygen wave. This causes axial motion and the tides.

A help-mate has been taken out of the side of the earth and we have a typical Adam and Eve. Their first born will be twins from the ends of the poles of the earth. When this calamity, or blessing, overtook the earth, the great mass of ice drew the sea partially away with it; in the readjustment, a great tidal wave swept over the face of the land, and the first flood occurred.

The earth suddenly beginning to turn upon its axis, large areas of water were subject to rapid evaporation, causing disastrous floods; new continents arose and old ones disappeared. For a long period the earth was subjected to earthquakes, tornadoes and great disturbances of land and sea.

The uneven arrangement of the land and water gave an oscillating motion to the earth's axial movement and the seasons were established. Night and day were now established, and all conditions present for organic life to develop over a large area of the earth's surface. We take occasion to say in another lesson, it is quite reasonable to believe that organic life, of an abnormal

nature, existed on the ~~mass~~ side of this earth before the moon was born and axial motion began.

We will merely mention here, we, in another lesson attempt to demonstrate that the system of planets within the great external frame is the garden of Eden of Bible teachings, and that mass is the Adam thereof. His first moon was Eve; they bare two moons, Cain and Abel. Cain destroyed Abel, and for this was made a comet, and sent out to the external body to till - sow seeds in it - that it, too, might produce life. Another moon was born to Adam and Eve, Seth, and thus Mars has but two moons.

We will look eagerly forward to see if our friendly serpent will lead us as unerringly to the development of the vegetable and animal kingdoms, and this makes it important to review some of its primary functions, and bring them down to the plane of organic life.

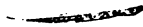
In the Vibratory Plane.



Energy.



Motion.



Rest.



Recuperation.

In the Atomic Plane.



Nitrogen.



Oxygen.



Carbon.



Hydrogen.

In the Molecular Plane.

Cold.

Warm.

Dry.

Moist.

In the Physical Plane.

Air.

Fire.

Earth.

Water.

In the Organic Plane.

Light.

Heat.

Sound.

Color.

Nitrogen 
represents atomic action.

rules in the vibratory state, and

Oxygen ,
represents molecular motion.

rules in the gaseous state, and

Carbon ,
represents bodily motion.

rules in the solid state, and

Hydrogen 
is a union and medium of all the
others, and the agent of organic life. It is the distributor.

Organic life is all of these, in an active state, in one
physical body.

Vacuum is the suspension of all of these vibrations, in one
body, in a potential or frozen state.

We wish to state here, for want of a better connection, that,
instead of giving to hydrogen an atomic value of 1, as is the rule
in chemistry, we give it the true value belonging to it, the atomic
sum of the three waves forming it,  Nitrogen 14.

 oxygen 16, and  carbon 12, equal
 hydrogen 42.

Now, we know, to convert this into water we must have two atoms of hydrogen and one of oxygen. (H_2O). In this primordial state, to obtain these extra atoms, the first negative wave is developed , heat without fire. The atomic value of this wave we know to be 16; add this to our atom of hydrogen and we have an atomic value of 58, that of chloride of sodium.

Salt melts ice in the presence of light, and the primary salt seas were thus formed upon the surface of our frozen globe as the first step towards awakening it to life, and preventing its easy return to the frozen state.

An equivalent of chloride of sodium is the fifth wave released by our molecular ovum.

Primordial Waves in the Land, Water and Vegetation.

Every primitive river valley is a typical Garden of Eden.

Lesson No. 2.THE WAVE HABITIN THE LAND , WATER AND VEGETATION.

In former lessons we declared that all material bodies are created by a fundamental set of vibratory waves, which we called the life waves. We said, these waves are arbitrary and universal, constituting law. We demonstrated this theory by tracing the life waves back into vacuum, then following them through the creative processes; first, to the prime atom of matter, then the atomic ovum, then to the development of the molecular ovum, and the organic ovum, and finally, to the development of our planetary system and its worlds.

Not once have we seen the waves break their continuity, nor have we seen one wave jump over another, or regurgitate back into the series which produced it.

Had we stopped with our planetary system or with our world, leaving our serpent coiled and sleeping therein, all that we have said could be classed as theory only, and our claim, that this law of vibration is fundamental and universal, would not be sufficiently proven. Therefore, we appeal to the truthful vegetable kingdom to bear witness to the good reputation of our wise serpent.

Moreover, we stated, in the secrets of the serpents, that the sole purpose of vegetable and animal life is to release vibration from matter, and the active state, and restore it to vacuum and the potential state of being; therefore, it is essential for us to trace our original set of vibrations into, and through these kingdoms, in order to fully vindicate our theory.

We feel assured of better support and sympathy in our work, as we follow our faithful serpent through fields familiar to all alike. Familiar forces seen in strange places always interest us more than new ones. It will be pleasing for the reader to be able to look from his window, and inspect the tree, which so positively demonstrates our lesson. Even the children may recognize and point out, in organic nature, the life waves.

All nature is a text book.

It is a beautiful thought to contemplate the possibility that our parks may become highly cultivated and developed, and be provided with auxiliary institutions such as perfect museums of natural history, etc., etc., and finally, become our public school rooms, where children may be inspired by contact with the trees, flowers, birds, insects and animals in real life. This influence would expand the soul of the child, and its mind would unfold, and blossom like the new blown rose, unblighted by the confinement, and real drudgery of our present excuses for dissipating abnormally large

school funds, and sowing the seeds of physical and moral disease.

Before we start in pursuit of our waves in the vegetable kingdom upon our earth, we will point out some of the peculiarities of the physical conformation of the earth's surface, which, in a marked degree, exhibit the wave habit.

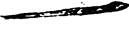
Naturally, we should expect to find in the rigid unyielding surface of the earth, that our waves will take cruder and more arbitrary lines, but the continuity of waves will manifest itself even more emphatically.

In the land, we find the individual mountains represent the centres of potential energy. The circular craters of extinct volcanoes suggest the hoop, , the serpent with its tail in its mouth; while the large rounded prominences represent the globular form of potential centres.

We know that, smouldering beneath both, is pent up energy, quite sufficient to destroy half a continent.

The broken foot-hills, which gradually lead down from the great mountain ranges to the rolling plains, represent the fine vibratory wave of active disintegration .

The rolling plains themselves, typify the longer wave of waning force .

The low flat valleys, the dead-line of rest or level, .

Now, what do we usually find in the midst of the valley?
A body of water, , and, here, we have a very decided reproduction of our primordial waves,

    
Mountains. Foot-hills. Rolling Plains. Flat Valley. Water.

If this surface conformation is not an accident, the waves will reveal to us how it was developed, and this will be the proof that it, and its several waves, are inseparable, and, as we have said, all physical systems must conform to, and manifest these same waves. It is the universal law of unfoldment.

In our former lessons we learned, that all of the positive waves come out of the potential coil; therefore, continents are undoubtedly made by gradually unrolling, and spreading out from the great mountain ranges, which have been formed by volcanic action or other upheavals.

To attribute this conformation of the land to accident, would make accident more potent in nature than design, for, we find the waters, the climatic conditions and the vegetable and animal kingdoms, following this same conformation. Another great lesson is taught here: even matter seeks the level of the sea, We will see, later, life lingers about the waters, and man is found most prolific in great river valleys, and along the sea coast, Thus all nature seeks a level.

The important lesson we must draw, directly, from an examination of this conformation is, it reveals that physical bodies declare their stage of development by assuming the wave of that stage or plane, and thus the visible plane becomes an unerring guide in following vibration, and classifying material things. We must not lose sight of this important law, for it will always direct us when we hesitate.

We will assume, for the sake of being exact, that the surface conformation we have just described is that of the western portion of the United States, on the North American Continent, and, we will take occasion to say here, in our lesson elaborating on the earth's physical development, we shall refer to the Rocky, and Andes, Mountain systems, as the vertebral column or back bone of this planet, and that it is natural to find this region the point where the serpent swallows his tail. It is the beginning and end of many things affecting civilization, as well as physical things.

We have found the land to conform to our primordial waves: let us examine the waters. If the coarse, unyielding land adjusts itself obediently to this wave scheme, surely the pliable waters will do so.

Sure enough, what the surface waters see the earth doing they, also, do.

From the mountains spring the singing rills and tumbling brooks, starting on their joyous way to the sea. As they pass down the whole water shed, they become larger in each plane till a great lazy river is formed, which creeps to the ocean and coils up therein. Then we have the same diagram, with the mountains the potential source.



This is not all we are to find adjusting itself to this peculiar conformation of the earth's surface; climatic conditions are, also, graduated by the same waves.



Naturally, we may expect to find the vegetation and animals distributed along this desirable configuration, and thus it proves to be the common highway traversed by all of the elements which help to develop the world. Without the mountains, none of this could be; therefore, they are the potential head of all we have examined.

For the first time, in our pursuit of vibration, we are to see a reversal of direction: we shall find that vegetable and animal life take an exactly opposite course to that of the elements

we have examined, and, before we are through, we shall prove our early proposition, that organic life releases and returns vibration back to vacuum and the potential state.

We have, in all of our previous examinations of vibration, found the greatest vigor at the nitrogen end of the wave, but we discover the greatest vigor of Vegetation and animal life at the carbon end, and decreasing as they approach nitrogen.

In the low valleys, moist and warm, the vegetation is rank and animal and insect life most prolific; fruits ~~for~~ food are here plentiful and the soil yields abundantly; therefore, man is also here in greatest numbers.

The rolling prairies exhibit a decided change: the land is more arid, Vegetation more scant, with much grass; insect and animal life decrease. Grazing being the mode of feeding, the animals are larger and more cumbersome. It is the plane of dry warmth; man is more scarce.

In the foot-hills, the rank growth wholly disappears; the trees are less vigorous, and their leaves assume the nitrogenous nature of the evergreen, with needle like leaves, like the cedar and pine; The animals exceedingly scarce, and man seldom seen.

In the snow and ice of the mountains we see all wholly disappear.

This is the first phase of the physical return of vibration to the potential state. We will elaborate this later.

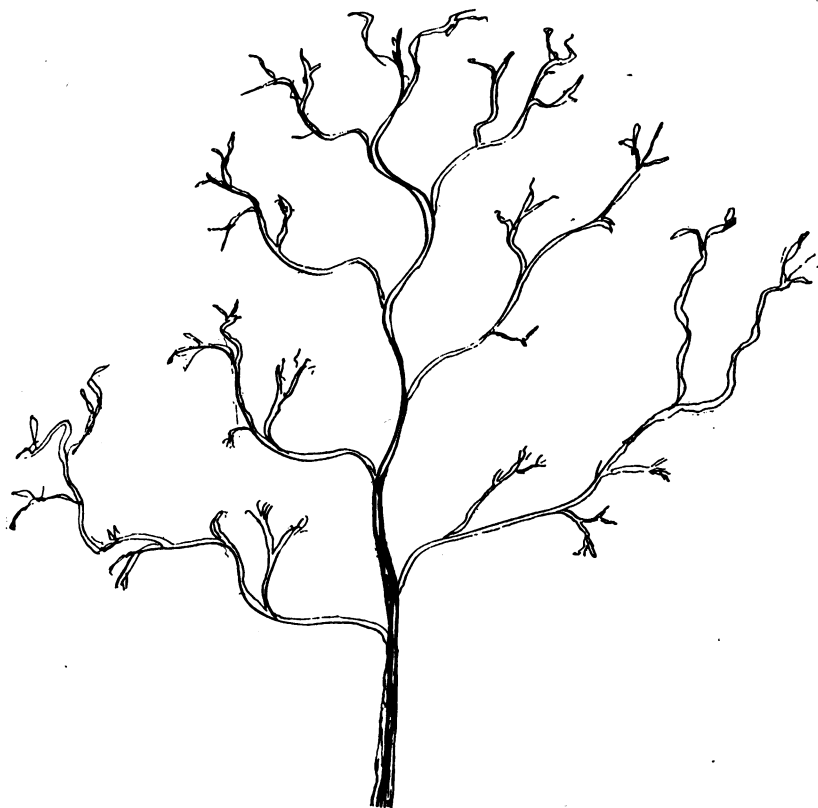
We understand by this new phase of our waves, that organic life is efferent, developing outwardly or toward the periphery. As we shall soon learn, this is a very important discovery. It resists, and overcomes, the law of gravity, which seeks to level all things.

That this is fundamental, we may see, by the course of the same life waves with relation to the equator and the poles. The same rule here applies, the progression towards the poles being exactly in the same inverse waves. We shall show that it is thus, life lays down the physical body, as it approaches the cold region of potentiality. All activity, even growth and decomposition of organic matter, are suspended in ice.

A very pretty simile may be seen in the passage of great trunk rivers through their adjacent lands, the river, vegetables and animals being taken as a whole.

The river may be likened to the trunk of a great tree, the banks its bark, its tributaries its boughs, the vegetation its leaves, the fruits its blossoms and the animals its fruit; —
— With man having dominion over all. It looks very much like a typical garden of Eden, this generous valley of the great river.

A peculiar thing, noticeable, about the trunk rivers is, the lands sweep away from their sides and their tributaries branch off from the sides like boughs from a trunk, a picture of the whole closely resembling a tree. The flowing of the waters in a reverse direction to that of the sap of a tree is, however, significant of the approach of the planetary winter.



As the river approaches near to the sea, the branches grow larger and stronger like the large lower boughs of a tree, the mountains receding to make room for these larger branches.

It is evident, the river was made before the tree; therefore, this sets the pattern for the form of the trees, and again we see primitive habit manifesting itself in organic life.

We have suggested that the origin of continents was primarily due to the spread of the lands from mountain ranges, which had been formed by upheaval. We have abundant evidence that every part of the earth's surface has at some time been in close contact with the sea. We find the remains of fishes, reptiles and sea shells on the highest mountains.

Moreover, we have, in certain localities, remnants of the sea, which, doubtless, were small parts of ancient oceans blocked off at the time of great disturbances of the region.

That they are dead is evident, showing no signs of life, being stagnant pools of strong brine. The great Salt Lake, of Utah, in the United States is an example.

Our logical conclusions are, the great Rocky Mountain system was caused by some upheaval of the earth's surface, the regions east of it being the sea. Over ages of time, erosion by floods, and the elements, swept down from the mountain sides the sands, rocks and earthy matter to fill up the sea and form the plains.

If we are asked for substantial evidence, we point to our creative waves. To this we add certain facts which seem to corroborate our waves.

The great alkali deserts, and enormous deposits of salt found under the aluvial deposits, and the sand are evidences.

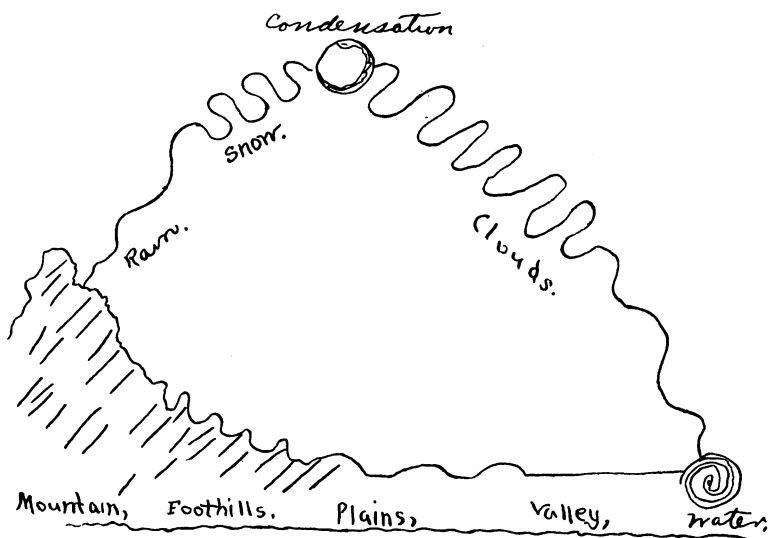
This region, and the continent of South America east of the Andes Mountains, were formed simultaneously, and are the newest continents on the globe.

In addition to these we may point to a never failing evidence; it fulfills the law of the pursuit of elements. We know, from former lessons, what that means.

Here we see hydrogen dragging carbon after it into the sea. It is the result, mainly, of the disintegrating power of water.

According to our fundamental principles, laid down in Primordial Waves, there is a constant pull between the land, the water and the atmosphere, the atmosphere draws moisture from the sea, and the sea draws the earth into it.

We can illustrate by this, how the planes would unroll from the mountains.



We know the atmosphere is composed of nitrogen and oxygen. The continuity would be nitrogen *RAAT*, oxygen *~~~~~*, carbon (earth) *~~~~~* and hydrogen (the sea) *@*.

The atomic habit resides in the atmosphere, the molecular habit in the waters and the habit of bodily motion in the land. Therefore, we see the atmosphere pulling at the sea and the sea dragging the land after it in conformity with our universal law, of the pursuit of elements.

Molecular vibration seeks its level in the sea, and organic life resides along its trail in a reverse wave.

As organic life is due to the warmth and humidity, caused by axial motion, we should expect to find its first and strongest manifestation at the equator, where the greatest amount of humid heat is evolved.

It creeps up the great rivers, and along their branches, over the dreary plains to the foot-hills, growing weaker the nearer it approaches to the mountains, which it finally reaches, disappearing in the snow.

In like manner, it gradually rolls north and southward from the equator, across the temperate zones, and disappears in the frozen regions of the frigid zone, and thus we see organic life, lay down its burden of matter and surrender its vibrations to the frozen rings of potentiality, at the poles, and on the mountain peaks.

It is the physical return of the life wave to vacuum, the blending of activity and rest. The serpent swallows his tail  where the ice is, and assumes a potential state.

The magnetic waves, which appear to come out at the equator, and pass in at the poles, are all upon the surface. The cold, nitrogen, , is pulling oxygen, , and vegetation with it. Vegetation is pulling the soil, the land 

with it, and the land draws the water ,  , with it, and the icy coils at the poles swallow all, and pile up materials for the new moons for the earth.

We will later explain how the greater part of the land was gathered in the Northern Hemisphere.

The magnetic waves end in the ice cap at the poles. They are piling up, preparing to be released. The dip of the magnetic needle already shows a tendency for the earth to assume an eccentric motion, the magnetic points being a considerable distance from the geographical poles. Moreover, the last act of violence done to this earth will be perpetrated by these same magnetic currents. They will fulfill the law of ameboid-division, and will finally separate the earth at the equator, into two parts. The Northern Hemisphere at that time, as it now does, will contain practically all of the land, and the Southern Hemisphere most of the water. In obedience to this future event, most of the great rivers of the world are attracted toward the equator. The ocean currents are most active and destructive to the lands here. Volcanic action hovers near the equatorial regions. The Northern and Southern continents on both sides of the world are practically separated, and the hand of man seems eager to sever the slender threads now holding them together. The Suez Canal has segregated Africa, and the proposed Panama Canal will accomplish the same for South

America, all of which are the signs of future amoeboid-division of the earth, an inevitable fate of all dual things. Yet this division will not occur at this stage of the earth's development.

It is a significant fact that while governments ~~are~~ cutting the threads which bind the southern continents to the northern, they, at the same time, contemplate uniting the two great northern continents by railroad, or bridge. The vast sums of money these projects will cost would colonize these southern continents, which, by treaty, could be made to yield a thousand fold greater and more permanent commercial profits, and civilizing benefits.

THE SERPENT DELIVERS HIS MESSAGE TO THE VEGETABLE KINGDOM.

It is not our intention to dwell, at length, on the vegetable kingdom. We make it a special subject in another lesson: but, we will show a decided continuity of creative habits, manifested by our waves.

It is not inconsistent with our theory to say, we believe that animal and vegetable life existed on the warm side of this earth; that is, the side exposed to the sun, before it developed its moon, and began to turn on its axis.

The axial necessity had not yet reached this point in the orbital planetary pull. For many thousands of years one surface of the earth must have enjoyed perpetual day, the glare of the tropical sun, and a certain degree of perfection in vegetable and animal development.

The vegetation would, necessarily, have been of the tropical variety, tending to umbrella shaped foliage, and broad, round leaves, owing to the constant glare of the sun light.

The animal life would have been of a composite nature, owing to the peculiar conditions under which developed.

Due to the increased size of the globe, and the constant light, the animals would have grown to abnormal size.

In the absence of axial motion, they would be almost wholly reptile in form, and slow and ponderous in movements.

With perpetual light there would probably be no sleep, because of limited nervous development.

On a whole, we should expect to find monstrosities, and over-growth, in all organic life.

The remains of what are called ante-glacial periods, show an ideal life for our pre-axial period.

There were giants in those days, not giants of men, but of reptiles. Man, as we class him, had not appeared upon the limited area of land.

It was the age of reptiles, reptiles in the waters, reptiles upon the land and reptiles in the air, all being, more or less, amphibious, monsters, like the Plesiosaurus, half lizard, half serpent, with an extremely long neck; the Glidastes, a reptile forty feet long; the Iothyosaurus, a monstrous fish-like reptile.

The land animals were as terrible as the marine monsters. The Dinosaur and Dinoceras, the latter so named because of his "terrible" and "mighty" horns.

The winged monsters, like the Hasperornis, a gigantic bird, with teeth, and rudimentary wings; the Iothyornis, a fish like bird with teeth, and the Dinornis, fourteen feet tall, with thigh bones stronger than those of a horse. This latter is called the "terrible and mighty" bird.

There were no feathered birds, such as we have today; they had not been created. These monstrosities cannot be classed as fowls of the air. Their wings were of the nature of those of a bat, a leathery membrane, only intended to facilitate their movements near the surface of the land or water, while their extremities probably dragged after them, whipping the waters and vegetation furiously.

There are strong reasons why these creatures resided on the earth at a period before it commenced to turn on an axis.

First, the heavy bodies, with abnormally developed after extremities, suggest the carbonaceous tendency to cling to the surface, while the long neck, and reptile appearance, represent the tendency for vibration to rise upward from the waters, following the habits of the fogs and mists. This latter habit also produced the rudimentary wings. This tendency to draw away from the earth was due to centrifugal pull, intimating the approach of the necessity for axial motion of the earth.

The enormous growth was undoubtedly due to constant light, and consequent activity.

Doubtless the condition of the surface was semi-swamp, much, if not all of the vegetation, growing in the water, making it necessary for these animals to live a dual life to protect themselves from the extreme heat. Rising out of the waters to feed helped to develop the after parts and the long necks.

As the dry land gradually rose out of the waters, the animals lived more upon the surface, which developed the bird like kinds, as the vegetation with the fruits grew higher above the surface.

Probably, for centuries, the release of large volumes of water resulting from the constant thawing of ice, kept the lands in a semi-swamp condition, causing the animal life to partake of the nature of all the elements in one body.

It will appear, we have digressed from our main subject. We have done so to suggest that life upon the surface of this earth antedates the axial period, and also to state that this first life resided on a preaxial continent, located where are now the North Pacific Ocean and its islands.

It is our belief that all waves which are progressive around the globe, have their beginning and their end, approximately, here; therefore, it is logical to select the rocky mountains as the point where our serpent swallows his tail. We can find many reasons to substantiate this.

In China, according to unprejudiced minds, is the oldest civilization on the globe. We call it the extreme east. We speak of the Pacific Ocean of North America as the extreme west. These are wholly arbitrary terms, the ulterior meaning being, the beginning and the end.

Both of these points, probably, participated in the preaxial life period, the continent of which they were a part, being situated where the ocean, which separates the two continents, now is, including the archipelagian region in which are the Philippines, Borneo and Java, extending to and including Australia and New Zealand.

The wounds to the earth, received at the time of the cataclysm, which destroyed most of the preaxial continent, have never healed, and probably the greatest of all natural phenomena of the earth,

are the remains of these wounds, as seen in Yellowstone National Park in Wyoming, United States, and a similar region in New Zealand; they are running sores on the earth's exterior.

It is significant that these two spots, the only ones of their kind, should appear on the borders of our supposed cataclysm: no one can view them without a feeling of awe and dread.

Of course, our theory intimates that Asia, and, at least, the Rocky Mountain region of the North American Continent, were at one time connected by land, and were separated, approximately, at the time when the earth assumed axial motion.

When this breaking up occurred, Bering Sea, the sea of Okhotsk and the Japan Sea, were formed; Alaska and the eastern point of Siberia were left within a few miles of each other, only being separated by Bering Strait.

The line of Aleutian Islands, Hawaii and the thousands of smaller islands scattered over this northern ocean, are all remnants of the former continent, not newly formed lands.

The evidences we have that this was the location of the pre-axial continent are numerous, and quite convincing,

Everything intimates that all of these islands are the fragments of a former large body. Erosion has caused many others to disappear.

If these are the oldest lands subsequent to the beginning of the axial period, we should be able to find in them the earliest races of human beings subsequently evolved from animal life.

In Borneo are found apes so like human beings it is difficult to distinguish between them and the lowest forms of mankind.

Throughout this entire region we find the earliest types of men. The Chinaman's yellow color signifies the oldest civilized race, but this is the subject of another lesson.

On the western slope of the Rocky Mountains we find the oldest vegetation on the globe. No man can estimate the age of the giant redwood trees, growing here, or determine the life period of the vast petrified forests which have probably been frozen or submerged for ages of time.

The ponderous redwood trees give some clue to the vast antiquity of the region, at least, as a means of comparison with other regions.

The nature of this growth would intimate that this was the fringe of the vegetation near the icy region. The tall, straight trunks and nitrogenous foliage signify this. They are such as we find growing near our present cold regions and in the cold mountain belts, the spruce, pine and cedar. Of course, the present growth is of subsequent development.

When the great cataclysm came, giving the earth its moon, and axial motion, a large portion of the land was torn away with the mass; it may be seen at the present time in the full moon.

Everything was jumbled topsy turvy, most of the exposed land represented a tropical condition, because of the constant sunshine. A part of this was whirled toward the region now our North frigid zone, while other parts, not totally detstroyed or submerged, remained, approximately, in their same relation to the sun, subject to great changes of the earth's motion.

Great areas of land disappeared, while others were tilted up, with their ragged edges miles above the surrounding surface.

Animal and vegetable remains of that period are found scattered all over the globe, but those found in the rocky mountain regions are associated with conditions which indicate they have remained near the original spot. For instance, we find the remains of the Hesperornis, Ichthyornis, and other of the monsters of the pre-axial period in the debris of the plains east of the Rocky Mountains, where also are enormous deposits of sea salt.

In the mountains of Utah, and Nevada, are found beds of infusorial earth, hundreds of feet deep, matted together with volcanic materials. This infusorial earth is the petrified

history of the very first vegetable and animal forms, and are very close to the point of origin. Here we see the microscopic diatoms of the vegetable kingdom, and the protozoan of first animal life, in close contact.

In Utah, we also find a remnant of the ancient sea, Great Salt Lake.

The Rocky Mountain range was tilted up, as the central portion of the continent sank in the sea. The deepest known sea soundings ranging from three to six miles in depth, are found along the Pacific Coast.

This mountain range became the back bone of the globe, extending from pole to pole.

As we said before, the constant erosion, by wind and water, during ages and ages of time, disintegrated and spread the eastern slope down into the sea, gradually pushing it away, until all the central part of the North American continent was formed, also that portion of South America east of the Andes Mountains. The perpendicular walls of granite, limestone and porphyry left standing, are the grandest sights in the Rocky Mountains.

We have given the only plausible explanation of the great redwood forests and the petrified forests, so different, abnormal, and isolated from the other vegetation of this continent.

In spite of the latitude, this region seems to have retained its "light hearted disposition" and "sunny habits" through all these ages, for we find as far north as Alaska, beautiful spots, with exquisite climatic conditions, and a vegetation almost as prolific as that of the Mississippi Valley, while California is a land of "perpetual summer." It is the habit the region inherited from its ancient period of perpetual sunshine, the new conditions aided in perpetuating this semi-tropical nature.

The tropical spark never died here, although changed conditions destroyed the great sea and land monsters, because they were not suited to the new order of things. In the arctic zone, north of this region, are found the remains of the terrible animals of this, and later periods, standing life like, in solid blocks of ice, with the undigested food still in their stomachs, revealing the law, that every activity ceases in the vacuum of ice.

We hope to complete our lesson on the subject, "The Dispersion of Mankind", in which we dwell at length on this region, and the end of civilizing waves.

The westward trend, which circles the world, can go no further upon reaching this point; therefore, the serpent swallows his tail and attempts to annihilate all the waves in himself. Liberty has reached the limit of expansion, and mankind has no other

western wilderness to which he can flee for freedom. He must submit to the tyrannies of contraction.

There is a deep and mysterious law at work here; already we see the people of America contemplating a union of the two continents by a rail road. The United States has actually taken possession of the very heart and centre of our pre-axial continent, the point where man first appeared as an upright animal, the Philippine Islands. She is encroaching upon the commercial territories of all the other great nations. The question is a natural one. Why does she not look toward the south, or develop her own vast internal resources, to maintain her people in peace and comfort? The answer seems to be, she must fulfill destiny, she must follow the natural law.

The United States has assumed this function of nitrogen, and is the nation to attempt to swallow up the others; she must meet the fate of our primordial wing. When she begins her contraction, to squeeze the other nations, she will find it is the contracting power which must break, she will engender an antagonistic energy to break her in pieces, and out of her parts will be formed new nations. We may find this internal energy in our own composite race,

We may note a very remarkable fact here, the nation is composed of four principle elements, Latins, English, Germans and

French. These are the nations being antagonized by the encroachment of the United States upon foreign lands. It might be a safe prophecy to make, that these nations, in time, will unite to crush the United States. We class all the smaller nations with the Latins. In such event, Russia would remain neutral and the United States would be divided into four prime atoms of matter - four new nations, subject to the control of the nations engaging in the enterprise.

The reward of Russia would be control of China, and mastery over the world.

This will be the end of a republican form of government, and the beginning of an universal government.

This digression is to declare this region as the theatre of great coming events; When there will be no east nor west, so far as civilized conditions are concerned, and all of the eyes of the world will be centred here.

We will now return to our duty of tracing our primordial waves through the vegetable world, first treating vegetation as a whole. tracing our waves in relation to general distribution.

We have already observed that organic life exhibits an effluent wave, growing weaker as it recedes from the water and warmth.

Vegetation and animal life are both much more prolific at the equator, and in the warm, moist river valleys, than in the mountains and near the frigid zone, growing gradually more scant as we approach the mountains and the poles.

We see vegetation clinging to the rivers and their tributaries, and we are again reminded, that, out of the hydrogen coil comes organic life.

Even organic life follows the law of remaining a satellite of the parent which bears it.

Vegetation is distributed in four ways, two of which, refer to general distribution, and the others have reference to direction of growth in relation to the earth's surface.

Our first principles do not relax, or relinquish any of their rights, because of reversed conditions.

Nitrogen represents atomic action,



Oxygen represents molecular action,



Carbon represents bodily motion,



Hydrogen represents axial motion,



Therefore we may expect to find each of these elements exercising an influence in one or the other of these distributive planes.

With our knowledge of the continuity of waves we are enabled to determine to which plane each belongs.

The growth of vegetation towards the poles would be checked by nitrogen or cold, *all*

The growth up in the air of plants and trees is produced by oxygen, warmth, *wavy line*.

The growth of plants downward in the earth, is influenced by the carbon, dry *line*.

The growth of the vegetation towards the mountains would be controlled by hydrogen, *circle*, moisture.

But, when we examine each wave carefully, we are surprised to find vegetation actually returning vibration back to nitrogen by four directions. In each direction nitrogen swallows up the waves; toward the poles, toward the mountains, up in the air and down in the ground. Then, nitrogen limits vegetation in volume,

We will examine each of these divergences separately.

We will begin at the equator, and follow vegetation toward the poles.

At the tropics we find vegetation is most prolific but limited in land area. This vigor we will symbolize by the fine vibration of greatest energy, *all*. We are here reminded of the active growth of the preaxial period, when all was tropical. Here are the broad circular leaves, the umbrella palms, and the thick jungles, all of which are intended to shelter and protect life from the searching heat.

It is here also we see develop in the highest degree, the habit of natural selection, of shape and color, for self-protection of animals, birds and insects, from destruction by each other, so multitudinous are their kinds.

As we pass into the temperate Zones, we see a decided change in the foliage. There is little grass at the tropics, in the sense of the close sod of the temperate zones, which here carpets the earth with green. This is due to the fact, that, the extreme warmth of the tropics enables the vegetation to literally live in the air, the nutritive stratum being much higher above the surface here, than in cooler zones.

In the temperate zones the trees have larger, and many, roots, with which they draw their sustenance from the earth. The close carpet of grass prevents the moisture from evaporating from the soil, moreover, it keeps the soil cool ^{during} periods of extreme heat.

The tropical foliage assumes the large round leaf for another purpose, also; the vegetation is the lungs of the earth, ^{and} these great leaves keep their bodies cool by inhaling the nitrogen from the atmosphere.

Leaving this rank jungle growth, for a while, we pass on to the temperate zone. We may fitly use the oxygen wave  to represent this zone.

Here we find a hardier growth, larger trees, smaller leaves, and a more dense growth close to the soil; everything tending to foster warmth instead of dissipate it.

The third wave takes us to the frigid zone, and here, we find energy at its lowest ebb; the herbs and grasses disappear, the trees grow tall and straight, with much body and little foliage.

This is the dead-line, where vegetation ceases and becomes lost in the ice about the poles.

At first, it might be thought our waves have broken their continuity, but a close scrutiny will prove this to be untrue. The carbon wave cannot unite directly with nitrogen; therefore, cold had simply barred the way to further encroachment on the part of vegetation without compensation in fruits, which the trees do not yield. Animal life does not thrive here; therefore, fruits and herbs are not necessary. Even the leaves almost disappear. Nature does not allow any energy to go to waste; therefore, useless growth is stopped.

If plants growing in a northern region be moved some degrees south they at once become more vigorous in their growth, and more prolific in fruits; on the contrary, if they be moved from the south toward the colder region, they become less vigorous and soon wholly cease to bear fruits.

The same effects are also noticeable in animals under the same conditions.

We can draw but one conclusion, nitrogen sterilizes and oxygen fertilizes organic life. Then we should not be surprised to find that animals, and man, learn their migratory habits from vegetable life, adjusting themselves to the distribution of vegetation, upon which, they chiefly depend for subsistence. Doubtless, over periods of time, encroaching sands convert large verdant regions into arid wastes, driving vegetation to new regions, and man, from constantly accommodating himself to these changes, contracted the nomadic habit, continuing to seek new lands as long as he could find them.

The necessary result would be, both with the vegetation, and animals, the stronger would push away the weaker.

Many such changes must have occurred as the vast territory unrolled itself from the Rocky Mountains eastward, with its constantly shifting soil and climatic changes. One law never changes, where the land, rain and dew are, there is organic life.

Nitrogen, as we have said, governs the atomic growth of tissues, and adjusts this growth to the requirements and necessities of the several zones, which reveals a reverse set of waves for organic life, as the following will illustrate.

<u>Tropical.</u>	<u>Temperate.</u>	<u>Frigid.</u>
		
Prolific vegetation.	Less prolific.	Scant.
		
Coarse leaves.	Medium leaves.	Small leaves.
Expansion of foliage.	Expansion of foliage	Expansion of body.
Contraction of body.	Expansion of body.	Contraction of leaves.
	Contraction of branches.	

It will be observed, that the leaves grow smaller as the vegetation approaches the cold, and the trunks grow relatively larger, while the whole volume of vegetation decreases, from the tropics toward the poles.

At the equator we have an expansive foliage.

In the temperate zone, both the body and the volume of foliage expand, while the leaf diminishes in size, and the boughs rapidly taper to small twigs, to accommodate the multitudinous leaves, giving to this zone an extra accumulating power.

The broad expanse of land also gives to the north temperate zone a vast advantage in volume

We will now examine the plane controlled by oxygen. This refers to growth up into the air from the earth's surface; therefore, considers the individual plant and tree.

The growth and habits of trees in this plane differ in the different zones and locations.

In the torrid zone the ground is nearly always sandy, excepting along river beds where it is more or less marshy. In the swamps are found a multitude of squirming, twisting roots and vines, intermingled with amphibious monsters and reptiles, the one closely resembling the other in shape and color. A veritable tangle of physical vibrations, so rank in growth they know not whither to turn, and, like a mass of serpents, twine about each other. It is the old story of the preaxial period: so much constant warmth and humidity produce abnormal growths.

As the dry sandy ground appears the grass disappears, and the vegetation assumes comparatively small stems with broad leaves, and spreading umbrella like foliage. This growth has two purposes, the one being to shade the earth and keep it cool, the other is to enable the plant to inhale large quantities of nitrogen from the air to temper its own vital fluids.

The nutritive zone actually rises several feet from the ground enabling many plants to live off others as parasites.

While, above the ground, this vegetation belongs to the kingdom of oxygen,  warmth, it must be lifted almost bodily out of hydrogen. It persists in assuming the habits and nature of hydrogen, the leaves assuming a circular shape and the

roots and vines tending to coil up.

This constant warmth, moisture and pull also develop freaks in animal and insect life.

It is the tree, in every zone, which reveals the wave habit in vegetation to the best advantage and ^{in the} clearest light; as the tropical tree draws his straight trunk out of the tangle, and spreads his majestic umbrella, he looks king of his kind, yet, he promptly admits obedience to the oxygen wave of warmth, by arranging his leaves into a symbol at once suggestive of heat and the radiations of the sun. The end of the carbon trunk has, figuratively, burst into a blazing sun.



The fronds of these trees are usually large, and globular in form, intimating planets and orbital motion, which motion belongs to carbon. Like the abnormal monsters of the preesial period it partakes of the habits of the three elements most instrumental in producing it, hydrogen, carbon and oxygen.

There is less abnormal growth in the temperate zones, and the trees adhere more uniformly to primordial habits.

The ground here is carpeted with a closely matted sod of grass for the protection of the roots of the shrubs and trees. It prevents the rapid evaporation of moisture from the soil and it keeps the surface cool.

We find here, the closer to the ground the plant grows, the smaller it is in size, and the more prolific its growth.

As the herbs, plants and shrubs rise above the surface they grow larger in size and fewer in number, but a compensation is found in the spread of the foliage.

This is a wise provision of nature, to avoid completely shutting out from the sun light the small surface growth.

All of these several levels have their specific purposes, and nature strives to supply them with the elements for their proper development.

Adjusting themselves to these several levels are the insects, birds and animals. The fine surface growth is literally alive,

with insects, of every conceivable shape, size and color.

The small animals feed upon the larger herbs, and their sizes increase as their food grows higher above the ground, and, here we see the animal wave adjusting itself to the vegetation.

We are now considering vegetation in its atmospheric relations, where oxygen controls, yet it is bound to earth by carbon, and pulled at by nitrogen; therefore, it partakes of the nature of these three elements above the surface, with each element striving to get some advantage over the others. We can see the wave of each of these elements in the several parts of the tree.

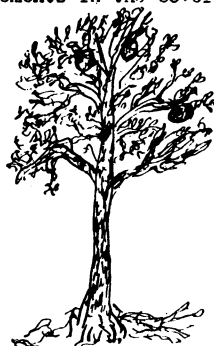
Potential coil,

Nitrogen,

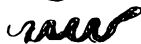
Oxygen,

Carbon,

Hydrogen.



the fruits.



the blossoms.



the leaves.



the trunk.



the root.

The fruit is the potential product of the four prime waves.

The blossoms evolve nitrogen,  

The leaves evolve oxygen,  

The trunk produces carbon,  

The root produces hydrogen, the sap.  

Until the fruit bursts its shell, and the seed begins to grow. it is a typical coil of potential energy.

We see the trees, in their atmospheric plane, bear leaves, blossoms and fruits all in their due season, which also betrays our waves in relation to the season.

Winter is the potential coil  the period of ice.

In Spring, the leaves are green and thrifty, and the blossoms form. The greatest vigor of expansion is seen, .

In Summer, the leaves are yellow, and the fruits are formed and ripened by warmth, .

In Autumn, the leaves are orange, and the fruits fall, and hibernate in a potential state through the winter, leaving only dead carbon, .

The colors of the leaves have a great significance which should not be ignored. They correspond with the colors of the planets which have the waves corresponding to these seasons.

Spring, Mars, green.

Summer, Jupiter, yellow.

Autumn, Saturn, orange.

And when the sap, hydrogen, red, leaves the tree, the leaves and fruit both fall to the earth, the leaves often turning a bright red color, a sign of the end.

We see the fruits disappear as vegetation approaches the poles, as also, do the blossoms; this occurs, too, when the tree grows tall, in the temperate zone; as it rises into the atmosphere its trunk expands near the ground to bear the great weight, but the trunk and its branches contract in size, and the limbs multiply in number, in order to give room for the foliage, which expands in volume and contracts in size of leaf. Its waves correspond with our positive primordial waves.



Blossom,



Leaf,



Trunk,



Root.

We will take up the carbon wave, in the earthy direction. Here we find a frequent tendency for the vegetable root to coil up into a bulbous form, imitating the original hydro-carbon coil



. These are the vegetables which supply us with hydro-carbon foods. When this is the case, we find little of the dead-line of carbon above the ground, the stalk being short, and the leaves large, the latter showing a tendency to imitate oxygen, by radiating from a centre, the pull of nitrogen is seen in the blossom at the end of a taller stem.

The same waves, however, apply.



Flower,



Leaf,



Stem,



Bulb.

The other forms of roots resemble inverted trees, but more frequently they spread away from the central root running close to the surface, ~~and~~ each branch root assuming a close resemblance to a river.

We now turn to the vegetation of the warm, moist river valleys and will follow its course towards the mountains. This vegetation is decidedly influenced by hydrogen, its waves showing the reverse condition before mentioned.

In the rich humid valleys we find a tangle of shrubs, grasses and low wide leaved plants, almost tropical in nature, with the difference, they grow close to the surface. With reference to volume, this is truly the wave of greatest energy,  Above these, in height, are the shrubs, which bear the nuts, berries and small fruits, and these reveal a larger wave as to volume.  Still towering above these are the tall trees; this gives us the straight line , and to our surprise, we find the inverted wave here, in relation to volume and growth up in the air, but to compensate for this, the trees exhibit great spread of foliage.

It is needless to say, here we find animal life most abundant and as this is the temperate zone, man also thrives best, and, as in the case towards the poles, we find organic life most prolific at the carbon or straight plane of the incline.

The Incline Waves.

Foot-hills,



Plains,



Valleys,



River.

Organic Life Waves.

Scant,



Less Prolific,



Prolific.



Scant,

Man.

Less Prolific,



Prolific.

We also see a similar change in the nature of the vegetable growth to which animal life adjusts itself.

Leaving the thrift of the fat valleys, we come upon the arid plains with much grass, and little other forms of vegetation. Naturally, grazing is the means of livelihood here, &c. There are few insects and small animals, the animals being larger and more cumbersome with fewer men, as we have already said.

As we reach the foot hills of the mountains the grass disappears and the trees assume the nitrogenous, evergreen, needle-like leaves, common to cold climates.

Toward the poles this would practically end vegetation, but this being under the hydrogen influence, and the mountains being the fountain head of the waters, which sustain the vegetation, we

find, between the pines and the mountain snows, a variegated carpet, of a thousand hues, composed of ~~many~~ *delicate, fragrant* flowering plants, growing close to the surface. This is a startling discovery, for we found in a former lesson that when the hydrogen coil and the potential coil of ice came suddenly in contact, explosion ensued and rain was produced. This could not literally occur here, but the habit is exhibited, by the birth of these nitrogenous flowers at the point where the snows melt and release the waters which moisten the thirsting plains. Not only does this condition send the waters down into the valleys, but it sends a deluge of nitrogen, oxygen, carbon and hydrogen atoms, and molecules, in the flowers, leaves and stems of the vegetation, to fertilize the soil, and also the seeds, to be reproduced on a larger scale. And thus we see, again, the mountains become the potential head.

By flood and wind these elements are scattered, and vegetation is shifted about, then the animals also move, the vegetation is moved by the elements, the animals learn their migratory habits from the vegetation, and man, his nomadic habits from the whole.

Now let us review our waves of direction, by which we have seen organic life distributed.

Whole Vegetable Volume.Pole.

Scant,

Temperate Zone.

Less Prolific,

Equator.

Prolific.

Size of leaves.

Small.



Medium.



Large.

Total Volume of Foliage.

Scanty.



Large.



Large.

Size of Trunks.

Small.



Large.



Small.

These waves at once reveal a very important fact.

The whole vegetable volume and the size of the leaves should, under ordinary conditions, balance each other, because, as the trees advance from the equator to the poles, the carbon body grows larger in proportion to the size of its leaf, and as the frigid zone is approached the whole foliage of the tree becomes greatly diminished.

But, when we examine the total volume of foliage, we find it abnormally large in the temperate zone. The larger trees having

immense spreading boughs covered with a multitude of leaves, few blossoms, and no fruits. Then, when we examine the trunks in the temperate zone, we find these, also, abnormally large, and apparently, our waves have faltered and at last disappointed us.

Let us see if this is really true.

These two abnormal waves must presage danger of some sort.

We have said, in a previous lesson, that the purpose of organic life is to restore pure vibration to a state of potential rest. Then, if it is the function of organic life to maintain balance, we need not be surprised to see it moving whole continents, for we know it, more than anything else, has all of the primordial powers in an active state.

We know one of our first laws is, the pursuit of elements in their regular order, nitrogen, oxygen, carbon and hydrogen.

This applies to atoms, molecules and bodies alike, in a state of activity.

Smaller bodies are attracted by larger. When the pre-axial continent was destroyed, the larger portion of the land surface of the globe remained in the Northern Hemisphere; therefore, the greatest volume of vegetation grew thereon.

Where there is vegetation there must be soil, earth, carbon; all of the coarse structures are formed of this element, and, at the

death of the leaf or body, it returns to the earth. Every atom of this carbon is constantly moving from point to point on the earth's surface, seeking the point of greatest pull from vegetation. All vegetation grows by atomic growth and seizes upon carbon wherever it may obtain it: from the atmosphere, blown by the winds, from the rivers and from the rain. It appropriates it to enrich its own soil and nourish its growth.

We see in the North temperate zone, a preponderance of trunk, with immense spreads of foliage, more than compensating for the large foliage of the tropics. We now speak of the primitive forests before they are destroyed by man.

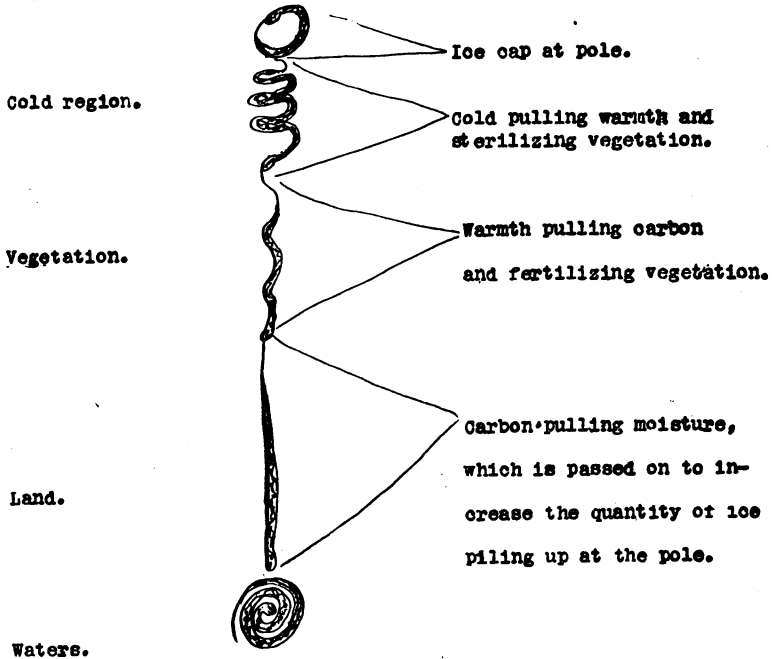
The result is quite manifest; by atomic attraction, the land is gradually being drawn away from the equator, and the tropical region to sustain the hardy and fruitless growth of the vast forests of the north temperate zone. True to the law, that large bodies attract smaller ones, we see the large northern continents gradually, but surely, drawing the land away from the southern hemispheres until the lands of the Northern and Southern continents are held together only by mere threads. Already the larger part of the land of the globe is thus absorbed by the north. The equatorial vegetation has clung tenaciously to the southern continents, till it has almost torn them asunder, and in the torrid zone, it

has nothing left to call its own, but the burning sand, which it must keep constantly cooled by its broad umbrellas. In time the ocean will wash this foundation from under it, and tropical vegetation will practically disappear.

As we have said before, the hand of man seems as eager, as nature, to hasten this separation. We can now understand why the foliage and trunks of the trees in the North temperate zone ruthlessly broke our wave continuity. They are actually breaking continents asunder in order to gather to them all the rich soils of the earth. It is an abnormal condition. When the encroaching cap of ice has swallowed up this land with the vegetable and animal life, we shall see the primordial law fulfilled, nitrogen will have again swallowed up all, and swallowed his tail, in the icy cap. Organic life, especially vegetation, has been his willing tool, dragging the carbon into the grasp of the cold north.

The deeper significance of this lesson is at a certain period every planet undergoes ameboid division. It is always preparing for this event, but, in order that it may not divide before its allotted time, periodically, small portions are released as moons, from the two poles. At such periods the earth assumes a new position, the equator becoming the poles and the poles the equator. When the land is practically all in the Northern Hemisphere, and is

covered with great vegetation, we find this arrangement of our Magnetic waves.



The Magnetic Waves carry the atoms from the equator and deposit them at the poles.

The break will come when the cold attempts to annihilate vegetation from the temperate zone. Like the great tree itself, it will have accumulated more than it can carry and the cap will break off. The shock will also break off the southern cap, and thus two more moons will be born to the earth. The land which has accumulated at the north will be brought down to the equator in order that the larger portion may be brought under the influence of the sun.

There is an instinct causing the land to assume this movement, and all nature is in sympathy with it. Atoms know everything, memory of the preaxial period causes the atomic direction to follow those lines which will again bring organic life back to that spot on the globe where it first saw the light of the sun. It is peculiar to find man trying to unite the two continents.

Is it giving to nature too great reasoning faculties to say there is method in all these movements? And that they are made with definite understanding and purpose?

We say not, greater intelligence on nature's part, is displayed in a thousand ways.

In the confiscation of the lands, the large tree seems to be the genius in this warfare; then, he should reflect nature in his own development.

Let us analyze him, especially in the north temperate zone, where he seems determined to rule or ruin, and gather to himself all the rich soil of the earth. His thrift and greed are very human like.

In the temperate zone, the larger the tree grows, the greater is the volume of its foliage, and the smaller the quantity of fruits suitable for animal food, it produces.

The smaller the fruit bearing tree, the more prolific the blossoms, and abundant the fruit, and the more convenient for animals to reach for food.

With a widespread growth of small fruit bearing trees, there is a more uniform competition for the benefits of the soil; therefore, better distribution of it. This competition begets stronger and hardier growths, and correspondingly greater fruit bearing energy.

The large trees show greed of body, and stinginess of fruits. They often have many blossoms, the promise of fruits, which they never yield.

The trunk expands in girth near the earth as the foliage increases in volume. The limbs contract in size, and make numerous and wide spread branches to give room for the multitude of leaves, its foliage, the empty husks, the only thing which it

contributes, and these, it tries to wrap about its own body and roots to warm and fertilize them, to the exclusion of all the surrounding vegetation. The foliage finally increases in volume, to such an extent, the tree cannot support the load and then, the leaves decrease in size. The tree has gathered more than it has the energy to feed, and he refuses to give sufficient sustenance to the leaf, which grows smaller in adjusting itself to less energy. This proves the undoing of the great tree. His small leaves allow the winds to cool his branches and chill his blood, old age has overtaken him. He is a barren burden to the soil, which he has robbed without compensation. More, he has impoverished all the surrounding vegetation which, too, has found it necessary to curtail its fruits for want of sufficient nourishment.

This is one of the limiting powers of vegetable growth. There is no man to till, trim and care for the vegetation; therefore, it simply follows primitive habits. It is one of the grandest lessons of nature. Man is given the power to reason from these lessons, that he may bring to bear conserving forces, which may prolong the periods of fruition. Especially, may he take heed from these lessons, that he may correct such wasteful processes in the conduct of human affairs.

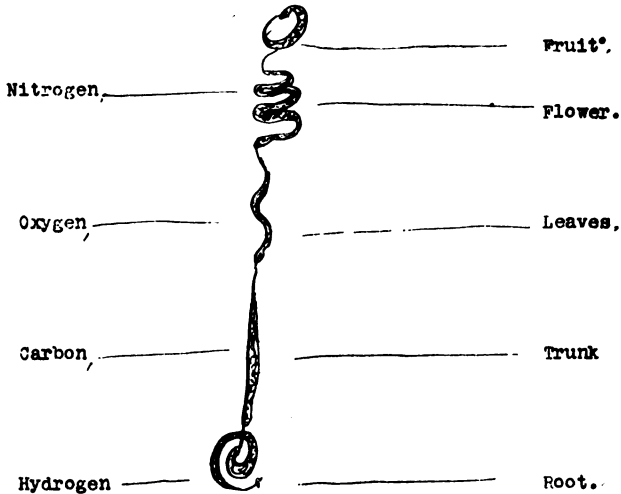
Vegetation cannot think thought is retrospective, and, as vegetation has not axial motion it has no nervous centres or sensory or motor nerves. Its only activity is that of atomic and molecular growth all memory is in the atom, which can only move forward. Thought would mean regurgitation of primordial waves, in the absence of a nervous system.

Man follows nature closely and imitates freely, but, for him to point to this habit of the great tree, as an excuse for organizing top heavy commercial or political enterprises, it is for him to admit that he is not above the vegetable in his reasoning powers. No law of God or man ever said that man should have the right to devour man. Yet this is what occurs when the example of the great tree is followed.

He was given the power to analyze these things and make certain laws for the benefit of his own race, and to reason out the best way to contribute comfort and days to mankind.

To follow nature's laws for purely personal and selfish ends, is to invite calamity. God would not have raised men above the brutes, had he intended they should live by brutish instincts and by preying upon one another, God is just, therefore, he meets out punishment for abuses of his laws by those to whom he has given reasoning powers.

We will now briefly review our waves in the several planes of development.

Atmospheric Development.Wave of Elements.Growth of Trees.

This growth is produced by oxygen and limited by nitrogen.
It bears leaves, flowers and fruits in their due seasons.

Earthy Development.Ruled by Carbon.

Upper, green portions inclined to assume sun shape. The
leaves evolve oxygen. The blossoms evolve nitrogen. The stems
and roots partake of both the straight line of carbon and the coil
of hydrogen.



Flower,



Leaf,



Stem,



Root.

This gives us our hydro-carbon food.

Lateral Development.

We have a remarkable set of waves paralleling each other, here, with the wave of organic life reversed.



Mountain,



Foot-hills,



Plains,



Valleys,



River.

Land Wave.

Temperature.

Ice,

Cold,

Warm,

Dry,

Moist.

Rivers.

Fountain,

Rivulet,

Branch,

River,

Sea.

Vegetation.



Scant,



Less Prolific,



Prolific.

Man.

Scant

Less prolific.

Prolific.

It is important for us to observe, again, the habit of growth of trees. The trunk contracts from the surface upward and the foliage expands, and divides. All of the branches approximate *the* bulk of the body. The division and separation into branches is to make room for the growth of leaves. The spread of the foliage is equal to the spread of the roots, in area.

These are wise provisions of nature to limit the growth of systems.

It is typical of expansion and contraction in one body.

We see our waves always tending to some point of rest.

When the fruit drops from the tree, the leaves soon fall also, and the crude carbon tree stands alone; with its nitrogenous fruit, and oxygen leaves, gone; there is no wave to attach ~~it~~ *it* to life. Even hydrogen, represented by the sap, deserts it, leaving it apparently dead; *it is its period of exhausted energy.*

It is in this connection we are reminded of the close planetary influences. The earth stands for carbon, Blue.

Mars, for negative oxygen, green.

Jupiter, for negative nitrogen, yellow.

Saturn, for the perfected planet, orange.

Uranus represents the end, red.

When no leaves or fruits are on the tree it stands dark and dead, a part of the carbon earth. In the spring, its leaves are green. When the fruit ripens, the leaves turn yellow. When the fruit falls, the leaves turn ^{on} orange hue. When the sap leaves the tree, the leaves turn red and fall, and, thus, we see the tree, apparently, pass through a process in which each of the planets, in its regular order, shows its influence.

There is a decided adjustment of our seasons, also, to our waves.



Winter,



Spring,



Summer,

Autumn.

The trunks of all trees represent the carbon line.

The roots represent the coil of hydrogen.

The foliage represents the oxygen wave.

The blossoms represent the nitrogen wave.

The fruits represent the coil of potentiality.

Cold limits volume of vegetation in spread. Cold and warmth regulate foliage.

Dry and moist regulate volume in growth.

Warm and moist beget much foliage and small bodies.

Cold and dry beget large bodies and small hair like foliage.

A temperate balance of all of these, beget much good fruits.

The evergreen foliage, like that of the spruce, the pine and the cedar, is nitrogenous, evidencing an affinity for cold.

The typical oxygen foliage assumes shapes indicative of planetary influences.

The poplar, with its three lobed leaf, with a developing fourth, is a tree belonging to both this earth and Mars.

The sweet gum, with its five pointed, star shaped leaf, is a Jupiter tree.

The white maple, with its eight lobed leaf, is a Saturn tree.

Many trees, like the willow, in their branches, attempt to coil into a hoop.

All of the trees exhibit the three positive waves in their growth, but reversed in direction, being drawn up out of the earth like being unrolled, by the influence of oxygen and nitrogen.

Trunk,

Carbon,

Leaf,

Oxygen,

Flower.

Nitrogen.

It is at the equator we find the best display of hydrogenous plants, especially aquatic. The perfection of all aquatic vegetation being the royal water lily, "Victoria Regia" of South America. Its leaf is a symbol of perfection.

Its flower is a radiating sun.

Its seed-pod, a potential cell; thus it is the finished hydrogenous plant,



We have now gone sufficiently into the general nature of the earth's vegetation to demonstrate, that it, too, is subject to the primordial waves. Those who can spare the time, will find it an educational and deeply fascinating study, to follow out, in detail, this fundamental law, in the vegetable kingdom.

It would be interesting to follow our vibrations into, and through, all the great divisions of zoology, and up to man, but to do so would be simply to pile up evidence, unnecessarily. We reserve this pleasing occupation for another lesson, knowing that our lesson, Man a Universe, will be, at this time, far more interesting and useful.

Before closing this lesson, we desire to impress upon the reader's mind the important law which is tending to draw the lands to the Northern Hemisphere. In the North American Continent the trend of all human and physical waves is toward the north west,

especially commerce, which is the all powerful factor in human affairs at this period.

In Europe, the strongest, most aggressive, and progressive nation is Russia. She has pushed her civilizing influences across the Siberian desert, to the extreme eastern point of Asia, as the Americans have advanced across the desert wastes of the North West, to the extreme regions of Alaska, until now but a few miles separate these two great civilizing powers.

Where mankind moves, there the fundamental currents are moving. It is well to understand, that, there is a deep and hidden law directing the waves of the two continents together. We may thereby foresee coming events of vast importance.

When a wound is made upon the surface of a living body, certain corpuscles rush from the adjacent parts to knit up the edges, and heal the wound. The surrounding parts draw closer together about the injury to close up and repair the break, and finally, the normal tissues again appear and the surface is healthy.

The lands of the earth's surface are trying to repair the wounds made by the destruction of the preaxial continent. Not one atom has forgotten that period of constant sunlight. They long again to bask in perpetual summer. Most of the land of the globe, at that time, was included in this preaxial continent; therefore, the same memory, and habit is in all the lands available

for vegetable growth, and all are tending in that direction. Man follows as naturally as water flows down an inclined plane. He is the white corpuscle to ~~move~~ into the new fabric the grotesque figures of civilisation. The red corpuscle, the American Indian, is no longer there, to supply the irritated edges with inflammatory elements and conditions which formerly destroyed the progress of civilization, as fast as created by the white man. When the red disappears, white comes. When the red leaves fall, winter is at hand.

It is atomic activity causing these changes. The land is gathering together in anticipation of the coming of its next millennium; When two new moons will be formed, and this portion of the earth will again assume its former typical condition, with the improvement of axial motion. Everything in nature clings to and tries to return to its point of origin.

Where there is much land, sooner or later, water will appear, then, land, water and warmth will produce vegetation, and consequent animal life; man naturally follows. Man, fortunately, is able to help himself, and thereby hastens the very thing nature is striving for.

He irrigates vast planes artificially, turning into vegetable bearing lands, great regions, formerly barren and non productive.

The most vigorous manhood is found in cold regions. The white man is nitrogenous, because of his high nervous development. This is the coming race. Keep the eyes to the North West.

While man was not yet developed at the time of the preaxial continent, the conditions from which he evolved were there, the idea had been born, to be slowly developed through ages and ages of evolving changes. These conditions were scattered to the four quarters of the globe with the breaking up of the preaxial continent, not the physical beings, but the embryotic conditions were alike in all regions of land, making it possible for man to originate simultaneously in many parts of the globe. From the first man, black, he evolved through all the colors to the finished white. The white man is cold. With his coming, all of the sweet sentiments regarding nature give way to the cold cruel laws of commercialism; commercialism in his politics, and in his religion. The human race has frozen into the icy coil of potentiality, when the white man dominates all. With his rigid laws, with no wilderness into which the oppressed may flee, the internal energy caused by the contraction of the liberties, and individual rights of men, will cause internal strife and revolution.

Reason and common sense will finally prevail and the potential mass will melt and flow into one great nation, to embrace all the peoples of the earth. The wisdom to perfect this grand ending must come from the brain of the white man.

Physical Man a Universe.

*Every man is ruler of a kingdom, wherein even the kings of the earth
dare not tread unbidden.*

PHYSICAL MAN A UNIVERSE.

In the secrets of the serpents, and subsequent lessons, we revealed the fundamental laws of vibration, by which, all material things are created.

We have said, that man is the last and crowning act of nature.

In the cosmogony of Moses, God is made to say, "Let us make man in our image, after our likeness."

By "image" he meant, a physical reflection of his own person, a bodily image.

By "likeness", he meant, like unto himself, in mental attributes, and the functions of his parts.

Now, if this similitude means anything, it means a being, in which, are united all of the inherent qualities of God, from his potential state of being, to the utmost limit of his creative acts; therefore, a composite reproduction of all that is.

This would, necessarily, make man a complete universe, and, having all of the functions of God, a creative being, he should be capable of self-regeneration of his parts, and reproduction of his whole. That this was God's purpose, is shown by the fact, that "male and female created he them." Then he bade them "be fruitful, and multiply, and replenish the earth, and subdue it."

To substantiate this, as a whole, will vindicate the philosophy of Moses, and prove that he was en rapport with the essenic, conscious ego of creation.

This vindication will, also, bring us in closer relation to that unknown God, which man has blindly sought for since he was first capable of abstractive thought.

Our analysis of man must reveal all that we have seen in our universal scheme. He must, especially, reflect our primordial vibrations, and show that he, himself, is created and governed by them, else our claims that these waves are fundamental and universal will not stand.

As he is an organic body, he must manifest all of the states of energy in both rest and activity.

He must be possessed of atomic and molecular activity, as well as orbital and axial motion, with all of these acting in relation to each other, within him, exactly as they operate in the greater outer universe, of which he is the microscopic reproduction.

We are, more or less, familiar with these fundamental movements, having watched them build the first forms of matter, and the planetary system about us.

In the secrets of the serpents, we demonstrated, that the serpent is the physical symbol of creative vibration, representing

by his several attitudes and habits, the-underlying fundamental laws governing the motions of matter.

In our wave habit in the land, water and vegetation, we exhibited the tendency of these elements to closely adhere to these primordial waves in their physical conformations.

If we can fully prove our theory in our analysis of man, we shall have, quite sufficiently, vindicated our wise and faithful serpent, who has shown us the way, and established the universal law governing the birth, growth and motions of physical bodies.

If, in physical man, we are to find a whole complete universe, we must first look for vibrations, and prime principles, as we did in our analysis of the other universe.

We shall use our serpent, again, to illustrate our waves.

Out of potentiality, , and vacuum, must come the three positive waves,  and these must coil up in the organic ovum, , and, here, we recognize our first set of four vibratory waves. (See Primordial Waves.)

We will remember, in our former lessons, the recoil aroused two negative waves, which increased the whole wave to six.



and, in the release of vibration from matter, we established two secondary waves, making, in all, eight waves, transferring energy from vacuum to vacuum or from the potential state back to the potential state.



Vacuum.

Vacuum.

These are the fundamental vibratory waves of creation. They are universal, and, as we have declared before, no act of God or man, can be consummated without them.

The continuity of the whole wave is not broken without the act explaining itself. No single wave jumps over another, nor do they regurgitate back into each other: the serpent always moves in the direction of his head.

In the human body we shall find these waves pursuing each other with the same consistency and persistency, as in the other worlds. We will review this habit, briefly, to clear the way for early understanding when we begin to analyze man.

We have learned that the first potential coil, which is composed of the four primordial vibrations, and is called the atomic ovum , gives birth to the four prime atoms of matter



Nitrogen,



Oxygen,

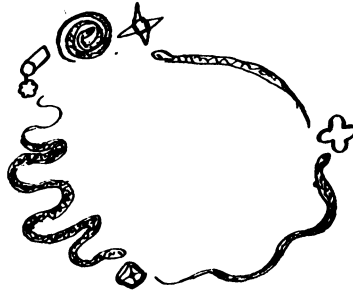


Carbon,



Hydrogen.

These atoms inherit the habits of the primordial vibrations, and begin a pursuit of each other, in the order of continuity of their waves.



And, finally, as illustrated in former lessons, nitrogen swallows up all the others, and then swallows his tail, which signifies, that he coils into a potential state. This is a material body. It is the molecular ovum, , and gives birth to molecular bodies.

In the molecule, we know, are six waves to be released.



The three positive waves, and the two negative, coil up to make the hydrogen coil, or the organic ovum .

We learned in Primordial Waves, that the laws, habits and senses, transmitted to molecules, are also transmitted to physical

bodies. We saw come out of such a body the planets of our planetary system.

One after another, in regular order, these planets coiled up in an organic ovum and gave birth to organic life, in the form of vegetation and animals.

This makes clear what we are to find in the human anatomy; if it is what we believe it to be, a universe.

Will it not be amazing to find this, all, reproduced in our physical being?

We must be able to apply to our examination of man, the same fundamental mathematics we found in the manipulation of atoms to form other bodies.

Our first lesson in mathematics, referred to in Primordial Waves, was,

We subtract from primordial vibration the first matter, the atomic ovum.

We divide the first matter into the four prime atoms, nitrogen, oxygen, carbon and hydrogen.

We add the four prime atoms together and form the molecular ovum.

We multiply molecules into physical bodies.

We now claim that the true fourth dimension of matter is physical being. Length, breadth and thickness, all qualify being; then being contains these as parts, holding them in potential reserve for the further extension of being: then, if being can extend its own length, breadth or thickness, it contains latent dimension, which belongs to neither, until extension occurs. Therefore physical being has potential dimension, and this is the true fourth dimension of matter. We will find these mathematical processes repeatedly manifesting themselves in our work.

We are now going to see a marvelous series of correspondences.

In tracing our waves into the conformation of the land and water, we found a positive corroboration of our early proposition, that, physical bodies assume that form, direction or position which their controlling waves held in the wave continuity.

This is invariable law, and an unerring guide.

An atomic medium will convey only atomic vibration or impulse. In the animal organism, this is sensation.

A molecular medium will only convey molecular bodies, from a point of repulsion, to one of attraction. In the animal organism this may be respiration or circulation,

Carbon is always a medium of orbital motion, and is represented by the solid tissues.

Axial motion is also a movement of the whole body. It will not be difficult to find its medium. It depends upon the pliable or semi-solid tissues which respond to mental impulse.

The movements of our serpent prove to be the fundamental movements of our man universe; therefore, he is again vindicated.

We will use the same symbols, in describing our man universe that we have heretofore used to demonstrate our lessons.

The serpent represents vibrations.



The symbols for prime atoms.



Nitrogen,



Oxygen,



Carbon,



Hydrogen.

Our whole vibratory scheme may be summarized as follows:

The primordial creative waves.



unite, to form the Atomic Ovum.

A potential ring.



The atomic ovum divides into four prime atoms of matter.



Nitrogen,



Oxygen,



Carbon,



Hydrogen.

These atoms unite to form the molecular ovum,

a potential globe.

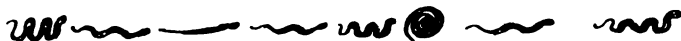


The molecular ovum separates into six vibrations.

These coil up and form the
organic ovum.



The organic ovum is an expansive coil containing the six waves, and releases two waves as secondary, positive waves, to liberate nitrogen and oxygen, making eight phases or waves.



The vibrations released by the organic ovum, coil into a state of potential rest.

The serpent again swallows his tail.



Now we are prepared to analyse the human physiology, and anatomy, in search of these several states or phases of vital energy

Our primordial vibrations find physical resemblances in the human anatomy, as follows:

The nervous system, transmits nervous impulse by atomic action, from one atom to another; therefore, it is the natural symbol for the nitrogen wave, 

The blood vessels, convey to all parts of the human system, the essential gases, in molecular form; therefore, they properly represent the oxygen wave, 

The lacteals, carry in the chyle, the products of digestion for building the solid tissues of the body; they fitly represent the wave of carbon, 

The lymphatics, carry the pure waters, the lymph, then they represent the coil of hydrogen, 

These four vibrations unite to form the atomic ovum, the white blood corpuscle, an albuminous ring.

Out of this atomic ovum, are born, our prime atoms of organic matter.

Starch.



Sugar.



Gelatine.



Fat



The organic atoms unite and form the molecular ovum, the red blood corpuscle, which becomes the vital principle of all the tissues of the body.

Before we begin to manipulate these microscopical materials, we will make a general survey of the man universe to see if He will

give us a more robust sign of what we are to find in a minute analysis.

From what we learned in Primordial Waves, Secrets of the serpents, and other lessons, we are not much surprised to find our greater body revealing a grosser pattern for us to follow in our minute work.

The human body is divided into four great divisions.

The head, representing nitrogen.

The thorax, representing oxygen.

The abdomen, representing carbon.

The pelvic region, representing hydrogen.

These are separate and distinct cavities and hermetically sealed.

These are all united into one body and become a great atomic ovum, and we see a beautiful illustration of our four prime atoms pursuing each other in an orbit, yet closely adherent to each other, forming the potential ring of the atomic ovum. We also see that they are hollow spheres. When they become annihilated in one body, the molecular ovum, that body will naturally assume globular form, this being the primary form of each of the prime atoms.

We know the nitrogen wave always swallows up the other waves, informing new bodies: therefore, it is apparent that the head, which represents nitrogen, is in absolute control of the activities of the other parts of the body, and each of these parts contribute its proportions to nourish the new body, which we know, must be our great molecular ovum, and this can be nothing more, nor less, than the brain.

Then, we may safely assume that the outer body was formed before the inner organs, which is corroborated both by the genesis of the human embryo and, as we shall find later, by genesis of the Bible. The body is the first Adam of the earth, earthy.

We may also understand by this that our wily serpent is not assuming any prerogatives not belonging to him, when he acts as the physical representative of primordial vibrations, because, this first being is a serpent, and necessarily moves by vibration.

The brain now becomes our potential centre, from which we know worlds are made: therefore, it must bear close analysis and prove its own claims of being the true molecular ovum.

It must reveal three essential things to establish its identity.

It must prove to be in vacuum.

It must show a tendency to four divisions corresponding to the four prime atoms.

It must reveal six potential centres from which the six primordial waves will spring.

If we do establish these special features we may go on our way with confidence, for these things cannot, all, be accidental or coincidental.

We first find our brain encased in a hermetically sealed cavity, the skull, a strong evidence that we are right, for, we know our molecular ovum is, at first, a hollow globe, with vacuum within.

Then we find the brain divided into four distinct parts.

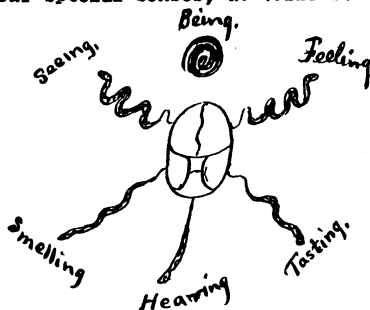
<u>The cerebrum,</u>	representing	<u>nitrogen.</u>
<u>The cerebellum,</u>	representing	<u>oxygen.</u>
<u>The medulla oblongata,</u>	representing	<u>carbon.</u>
<u>The Pons Varolii,</u>	representing	<u>hydrogen.</u>

Again, we find the cerebrum divided into positive and negative hemispheres, and the cerebellum divided in like manner, and this gives us emphatically our positive and negative nitrogen waves; our positive and negative oxygen waves; our single carbon wave, and our hydrogen coil.

Here are our special centres, out of which will spring our familiar six waves; proving conclusively, this is our molecular ovum, the God centre.

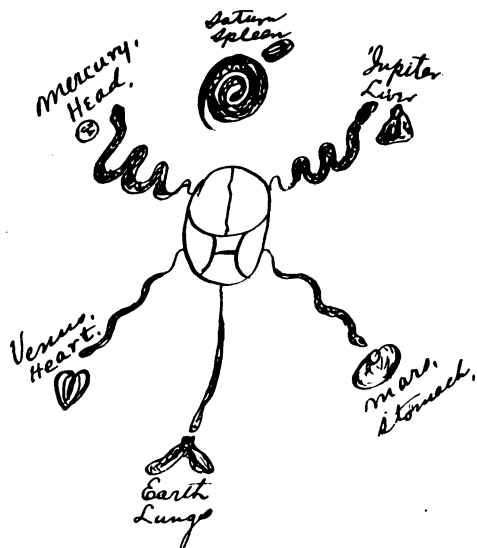
When we saw our planetary system formed, out of a similar potential centre, we found a planet at the end of each of these six waves, and we will find this to be true here.

The six centres which we have found in the brain, are the seats of our special senses, as follows:



Each of these senses is referred to a special physical organ, in the body, below, with active functions.

The Planets. (organs)



The head has important organic functions as a separate organ.

The brain is the potential centre

The head is Mercury,

The heart is Venus,

The lungs the earth,

The stomach is Mars,

The liver is Jupiter,

The spleen is Saturn,



Now, let us examine these planets in the light of the law we laid down regarding shape, direction and functions of physical bodies, and see if we are justified. If we are, then our waves will show a continuity corresponding to our former planetary system.

The head, , is an important organ, independent of the brain. It represents Mercury, and we know Mercury represents the nitrogen wave. It is the first remove from the brain, as Mercury is from the sun.

Passing through it are all of the nerves from the brain; therefore, it fitly stands for atomic vibration .

Venus, the heart, , receives and distributes the blood through the coarser, muscular blood vessels. This circulation consists, largely, of the distribution of gases. It supplies the means of warming the system, especially the outer body. Its distribution is molecular. It necessarily represents the oxygen wave, , the agent of growth.

The lungs, , the earth, is where nitrogen, oxygen, carbon and hydrogen, unite to form the first carbo-hydrogen world, the red blood corpuscle, with its atmosphere of nitrogen and oxygen. The trachea and bronchial tubes, which ^{much} resemble the stiff trunk of a tree, make the physical sign, .

Respiration supplies nitrogen and oxygen, the chyle supplies the carbon and the lymph the hydrogen. All these unite in the lungs and supply the elements from which are formed the red blood corpuscles.

After these corpuscles have passed once through the greater circulation, they pass into the lesser circulation, to vitalize the products of digestion. The red corpuscles are destroyed in this process. The stomach utilizes the oxygen for heat in digesting the food: the carbon is cast out; the spleen takes up the hydrogen and converts it into starch, potential hydrogen, which it sends to the liver by the portal vein; the liver converts the nitrogen into sugar, negative energy, potential light, and this also enters the portal vein. The albumenos of the digestion, passes directly into the blood, through the membranes of the blood vessels, where they all unite and become the albumenous material for the body of the red corpuscle, and in the lungs this is made the physical body of the red corpuscle. This we will find is the creation of the second Adam, a psychic being.

The stomach, (C) Mars, is at the end of the negative oxygen wave, intimating it to be a body capable of generating internal heat, which we see it does in the process of digestion.

More, we see it takes heat from the earth by appropriating it from the blood, but it fully compensates this by returning to the earth, both, rain (Plasma) and earth, (chyle). The great gastric artery is the physical sign,  . It gives a psychic heat to the product of digestion.

The liver,  , Jupiter, is at the end of our negative nitrogen wave. It restores potential energy to the blood to compensate for that confiscated by the process of digestion. It is a storehouse for vital energy; therefore, deserves the negative sign,  .

The spleen,  , Saturn, is the hydrogen coil. It is a ductless gland, yet it appropriates from the blood the ring  of flesh surrounding the red corpuscle which breaks up in the digestive process. This ring receives in the spleen, regenerative elaboration and becomes the material for the blood corpuscles and afterward the tissue of the body, in which is located the physical seat of the sense of feeling, the sense transferred to it from the liver.

The spleen is called the finished organ, as is Saturn the finished planet. In view of the fact that it produces this material which becomes the last product of the organism it becomes the true Saturn type.

The spleen further corroborates this by showing a decided tendency to surround itself with numerous satellites of its own substance, thus imitating Saturn with its eight moons.

Now let us review these with reference to their psychic significance,

Seeing.

Potential centre, the brain.

Psychic centre, the head.

Physical seat, the eye.

Medium, the nerves.

Smelling.

Potential centre, the brain.

Psychic centre, the heart.

Physical seat, the muscles.

Medium, the arteries.

Hearing.

Potential centre, the brain.

Psychic centre, the lungs.

Physical seat, the bones.

Medium, the veins.

Tasting.

Potential centre, the brain.

Psychic centre, the stomach.

Physical seat, the muscles.

Medium, the plasma.

Feeling.

Potential centre, the brain.

Psychic centre, the liver.

Physical seat, the flesh.

Medium, the nerves.

Being.

Potential centre, Pons Varolii.

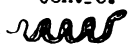
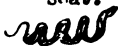
Psychic centre, the spleen.

Physical seat, the lymphatic glands.

A localized, physical sense, associated with all living tissue by the medium of the lymph. Nearly every nerve in the system has its deep origin in the floor beneath the Pons Varolii.

If we are correct, our waves will prove it. Let us apply our never failing test.

Every tissue with which these senses are associated should correspond with the original wave of the sense referred to it.

	Potential Centre, <i>Brain.</i>	First Wave.	Psychic Centre.	Physical Seat.	Medium.
<u>Seeing.</u>			 Head.	 Eye.	 Nerves,
<u>Smelling.</u>			 Heart.	 Muscles	 Oxygen of Blood.
<u>Hearing.</u>			 Lungs.	 Bones.	 Carbon of Blood.
<u>Tasting.</u>			 Stomach.	 Muscles.	 Plasma of Blood.
<u>Feeling.</u>			 Liver.	 Flesh.	 Nerves.
<u>Being.</u>			 Spleen.	 Lympha- tic Glands,	 Lymph.

We not alone demonstrate the true centres of all these senses, but a close study of this diagram will come near to revealing the true relation of the senses to each other, and the seats of the human passions.

It gives us the true mediums of thought and action.

The potential man thinks.

The psychio man speaks.

The physical man acts.

By the speech and action we may determine from which department of the potential centre the volition or impulse comes.

The configuration and physical character of the outer body, betray the quality of thought which makes it, and thus we have ~~the~~ means of analyzing the inner nature of every human being by the external signs.

Organic Life of the Planets (Organs)

In the outer planetary system we saw organic life first appear on Saturn: therefore, we should expect to find the first phase of new living tissue in the spleen.

We have seen it give to the plasma of the blood the first living product of the economy, the albumen. This is the first conscious state of organic matter. The sense of the state of being is born in the spleen. The physical sign, 
Vibratory sign, .

Jupiter furnishes the next phase of life, the sense of feeling.

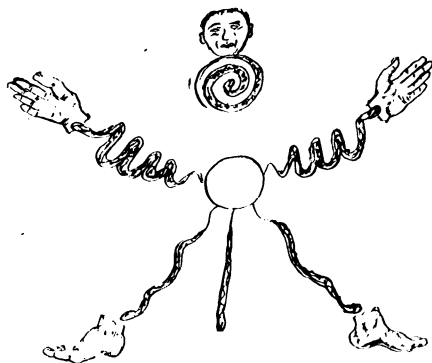
This is the function of the liver. The physical sign, 
Vibratory sign, .

Mars begets the sense of taste, and in the stomach is born to the albumenos the sense of hunger, and consequent amaeoid movement, in seeking nourishment. It begins to throw out feelers or processes. The physical sign, . Vibratory, .

Up to this point it is a cold blooded, blind and negative product. It can neither see, hear nor smell.

We will follow this no further now, but reserve it to embellish the latter part of this lesson.

The physical body must have physical organs of expression in order to express God's will in a physical manner; therefore, we find it pushing out processes representing the six waves of which it is composed, the physical servants of God.



And we see the tendency for these to arrange themselves into groups like the molecular ovum, as formerly described, and having an orbital continuity of wave.

First, into four divisions: hands, feet, head and spinal column.

These are subdivided into two hands, two feet, one head and one spine, revealing the physical manifestation of the six primordial waves of the molecular ovum.

The axis about which these members turn is the spinal cord, the connecting link between this outer, physical being and the brain, the God head, the potential centre of all the special senses.

Let us briefly examine into the powers of these physical mediums, and see what they can do.

The hands can only execute circles,  curves,  straight lines,  and spirals,  and combine ^{these} into geometrical combinations.

The feet can only perform, principally, acts which execute the oxygen wave.



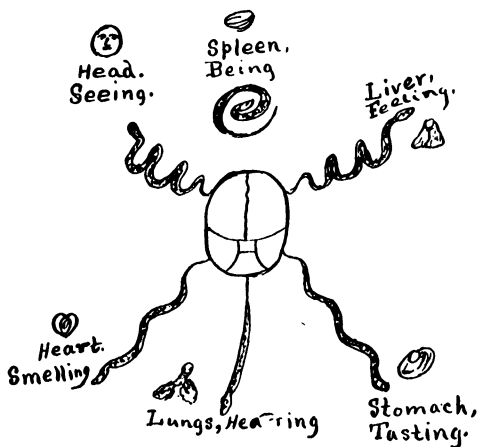
The head can be moved in six directions, all of which describe a part of a circle signifying the potential source of the animating power  with six seats of vibration.

The whole body turns with the spinal column, signifying orbital motion which belongs to carbon.

All of these are primordial movements possessed by all living matter, inherited from the first state of being.

We have examined the internal physical sense organs and seen them nourish the objective man. Now let us see from what source they obtained their powers.

We will again call attention to the diagram of the brain as the great molecular ovum out of which the senses are born.



This will be seen to closely resemble the sacred symbol, the Egyptian ~~seamab~~ ^{ankh}. Tracing these vibrations to their several organs gives us the potential centre from which each organ obtains its nervous energy. Seeing, especially, belongs to the head, Mercury, the messenger. It receives the external light, and translates it ~~into~~ ^{into} spiritual or subjective light, for the entire physical body. Its mode of transmission is by nervous energy,

 At the time the union between the four prime elements takes place in the lungs to form the red blood corpuscle, the atmosphere about the corpuscle admits the light from the great central sun, the brain, exactly like the light was made possible upon the earth, when its atmosphere was formed.

The nervous system, by which this light is distributed, is always where we find the blood.

Its brain centre is the right hemisphere of the cerebrum.

Smelling belongs to the heart, Venus, because the sense of smell is molecular, the molecules acting directly upon the olfactory nerve, which irritates the positive oxygen centre, to which the heart is referred.

Its centre is in the right side of the cerebellum.

It is closely allied to taste, which belongs to the stomach. It aids the stomach in the selection of the food materials for the blood, which it must distribute.

The primordial gases are tasteless and odorless, therefore, taste and smell are both molecular, which refers them to the heart and the stomach, 

Hearing is purely vibratory, and sound belongs to carbon, the earth, the lungs. The sense of hearing is given to the red blood corpuscle, like the sense of sight, when it is formed in the lungs, and, like seeing, is transmitted instantaneously throughout the body. The brain centre of hearing is in the medulla oblongata.

The sense of taste belongs to the stomach, Mars, and, as we said, is closely akin to smell. It is molecular, and negative. It will be observed that the negative senses, which belong to the organs in the abdomen, have their external signs, showing on the body instead of the head.

The tongue is the organ of taste, and really is, a part of the body. Moreover, these negative senses must be aroused by physical contact. ~~These~~ are taste and feeling. Taste has its brain centre in the left side of the cerebellum.

Feeling belongs to the liver, Jupiter, and while its chief centre is in the left hemisphere of the cerebrum, it represents seeing in the physical body: therefore, is aroused by contact with any portion of the surface of the skin. We know the liver to be a cold body: therefore, the sense of feeling can only be

transmitted by nervous impulse, over the sensory nerves.

The outward sign of feeling is the mammæ, the breasts,

The sense of being, is a finished sense. It belongs to the spleen and the other end of the wire is broken off and coiled up in the pons Varolii, the point in the brain where nearly every great nerve takes its rise. The Pons is the centre of consciousness in the brain, and the spleen is the centre of consciousness, and point of first life, in the new tissue; the one the starting point of nervous energy, and the other the starting point of organic life. The outward sign of the spleen is the umbilicus.

We note the remarkable fact that the outward signs of the positive waves appear on the head, the eye, the outer organ of seeing, the nose of smelling and the ears of hearing, while we have already referred to the outward signs of the negative waves. The umbilicus, like the spleen, is a finished organ; the spleen being a finished organ requires no active external organ.

We have fairly well demonstrated a resemblance between the great man of the skies and our own physiology, and it is with no little awe that we become conscious of being an atom in the system of a great living being, precisely like ourselves, with limbs, organs, and centres of sense, and physical activity, and, while it may cause us to feel infinitesimally small, we may congratulate

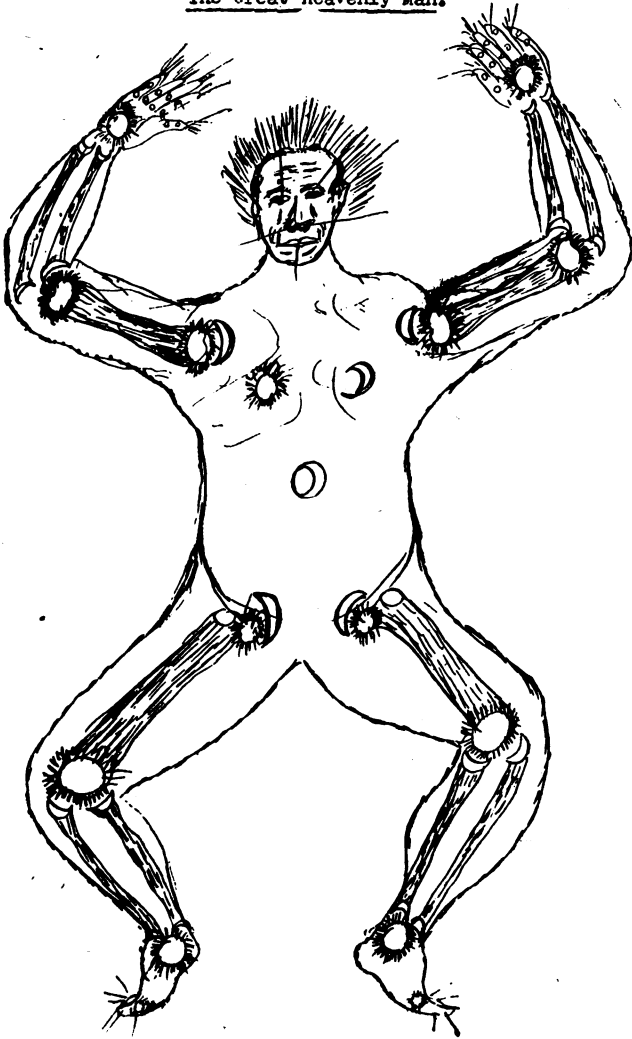
ourselves upon the wise law, by which the great being endows us with his special senses, when he forms us in his lunge, our earth, enabling us thereby to see, hear and know all that He knows .

Now let the astronomers point their telescopes at the skies, and see the parts of the great heavenly being, with perfect understanding.

Every joint or articulation in the human skeleton is a sun and a moon: where two bones join to a single one, they are two moons to a single sun. The hands and feet are constellations of suns and moons.

Dr. Herschel's horizontal projection of our planetary system is suggestive of the body, head and limbs of our great heavenly man.



The Great Heavenly Man.

The band of stars, surrounding the planetary system is called the milky way. It is composed of a vast multitude of rings and globes of every size, color and stage of development. The outer body of the human anatomy with its cell structures represents this outer body of the great man. It will be found it is divided into four great divisions.

There are constellations, whole systems of suns and moons, in this outer circle, the immensity of which, the human mind cannot grasp.

We must not look upon this comparison lightly because of the apparently vast spaces between the planetary parts; our own atoms and molecules, in relation to each other, are equally as far removed.

Every cell in the human flesh is a star, every cell in the muscles a sun, every cell in the bones the nucleus of a world, and every nerve cell a moon. They hold in place the special organs, the planets. Reciprocity is the means by which balance is maintained. *The red corpuscles formed in the bones are exchanged for those formed in the lungs*

We will now examine the physical conformation of the tissues of the body, as we did in our earth.

The bones, the land.

Skull.



Vertebral Col.



Ribs.



Straight Bones.



Marrow

Mountains.

Foot-hills.

Plains.

Valleys

Rivers.

The Waters.

Brain.

Nerves.

Blood.

Chyle.

Lymph.

Life Waves.Potential Seeing.
Centre.

Smelling. -- Hearing.

Being.

Organic Life.

Man.

Vegetation.

Birds.

Animals.

Fishes.

And here, like in the earth, we find the waters and the vegetable and animal life, adjusting themselves along the physical conformation of the land.

Correspondences showing general continuity
of Waves.

The Primordial Waves.



Bones of the Arms.

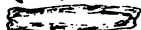
Nails.



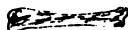
Digits.



Radius & Ulna.



Humerus.



Scapula.



Bones of the Legs.

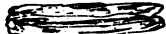
Nails.



Toes.



Tibia & Fibula.



Femur.



Pelvis.



Upper Bones of Body.

Skull.



Teeth.



Ribs.



Clavical.

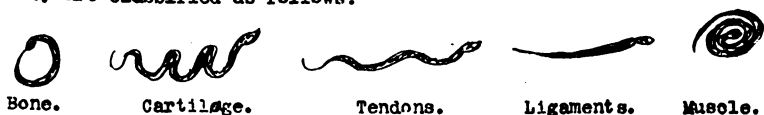


Sternum.

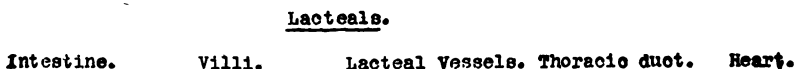
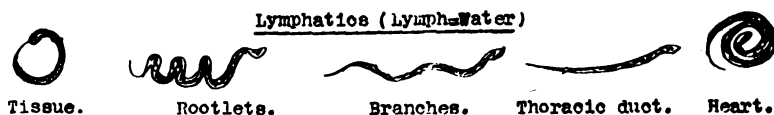
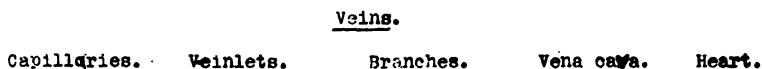


The muscles of the body give to the bones their leverage;
therefore, they closely adjust themselves to the sizes of the
bones.

In a longitudinal continuity of the muscular structures they are classified as follows:



The Course of the Fluids of the Body.



NERVES.

The cerebro-spinal nerves should be taken as a whole and treated as a tree, and this reveals quite an interesting secret. We saw the vegetation reverse its waves, and here we have the same thing, proving that the nervous system, in the physical body, corresponds to the vegetable kingdom in the earth. Moreover, we find its root is the hydrogen coil of the brain, the Pons Varolii, the principle nervous centre.



The medullated and nervous matters of the entire body freely reflect the forms of trees, leaves and plants.

The microscope reveals millions of little trees, in cross sections of certain parts of the brain. A vertical section of the cerebellum reveals beautiful fern-leaf pictures.

The whole mass of the brain resembles a bulb or root, out of which grows the inverted cerebro-spinal tree.

The cerebro-spinal nerves control the muscles giving them, both, vital energy and intelligent stimulus for action; therefore,

we should expect to find the muscles representing certain animal life of this outer body, depending upon nervous energy for subsistence.

This food would be vital energy, such as would be transmitted to the fruit of the tree by atomic growth. This would then be a nitrogenous food; therefore, such food as the birds of the air would feed upon, We saw the blood bring the gases to the muscles, then ^{they} to do represent the atmosphere. But, ^{man} MEF, also, resides in the atmosphere, and owing to his great nervous development is a nitrogenous being.

The sympathetic nerves are the medium connecting the outer body with the special organs within. They largely control the blood vessels, and the abdominal viscera, in their functions. They supply the energy which enables the blood to carry to the outer tissue, the products of these organs, and they may be likened to the hydre-carbon vegetables growing beneath the surface of the earth.

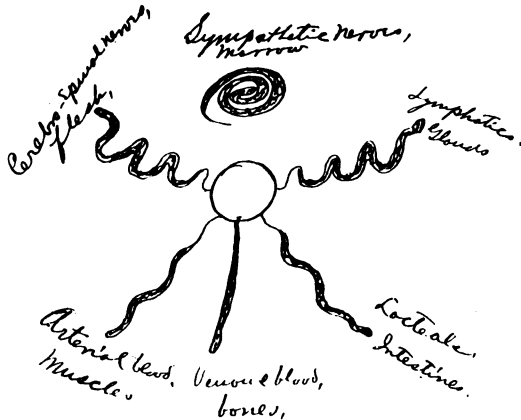
The heart, as a whole, resembles a bulbous root, out of which is growing the gnarled and twisted bodies of a huge vine, and as it turns and twists about in its circuitous route, it more than ever resembles a vine. It clings closely to the tissues as the vine creeps upon the earth or winds about the trunk of a tree.

The tissues of the blood vessels, then, may be compared to the vines.

But, the fluids, in the blood vessels, correspond to the currents of the ocean. The thoracic duct is the great river of fresh water, which flows into the sea, the venous blood; therefore, the fishes, the white corpuscles of the lymph and blood, are found in both.

The red corpuscles of the blood are the little all seeing eyes which "run to and fro in the earth." As we have seen, they are supplied with light when formed in the lungs.

We may now diagram all of these distinctive physiological structures with reference to our waves, and we are not surprised to find them drop right into the usual orbital arrangement.



Here we see also, the tissue ^{with} _^ which each is the most closely associated.

The Lungs.

The lungs, probably, more than anything else in the human body, resemble a tree, especially, the bronchial portions, so much so, that anatomists have named them the "bronchial tree." It is also inverted.



The Liver,

is another inverted tree, but, as it is a secreting gland, we find the substance partaking, largely, of the resemblance to rivers. Nearly its whole substance is composed of vessels. Sections of it, however, show typical vegetable forms.

It secretes the bile, and its ducts are very faithful to our waves.



A longitudinal section of the pancreas shows it growing out of the duodenum like a well foliaged shrub, the ducts being the stem and branches.

A cross section of the pancreas reveals the image of an almost perfected planetary system, and, singular to say, we find directly at its end, the spleen, which represents the perfected planet, Saturn.

The pancreas may be considered the ring, which surrounds Saturn. The spleen is the perfected organ, being a ductless gland. A cross section of the spleen shows the blood vessels passing through the substance in a manner to resemble, exactly, an ancient and deformed tree, suggesting extreme age.

Saturn is called the old man of this system.

There are peculiarities about the spleen which make it an exceptionally interesting organ. It is the largest ductless gland in the body. It shows a decided tendency to form round satellites about itself of its own substance. Saturn has eight moons, which makes this tendency significant.

In a cross section, showing the arteries in the substance of the spleen, there are, along the branches, little rounded formations, called the malpighian corpuscles, looking for all the world like a tree full of fruit, with no leaves on the branches. signifying

ripened fruit. These little bodies receive from the blood pure hydrogen, which is transformed in the spleen, into the fleshy albumen of the plasma and, after elaboration, is carried to the tissues for nourishment. This material supplies the fleshy body for the red blood corpuscles.

The Kidneys.

We have not referred to the kidneys as one of the planets, because they are satellites to Uranus, a secondary planet. It is a medium between the inner planetary system and the outer world. Their special function is to separate from the blood, and excrete from the body, the stagnant and lifeless fluids; therefore, we may expect to find their tissues resembling waterways.

The pelvis of the kidney is a large cavity acting as a reservoir to receive the fluid taken from the blood; it may be likened to an inland lake.

It is into this lake the principal organs empty their surplus fluids; the ten malpighian pyramids representing the ten departments of a perfected system.

The tubes and blood vessels bear a remarkable resemblance to our waves.

They ⁱⁿ represent the cortical and medullary substances which constitute the body of the kidney.

The tubuli-uriniferi commence in the cortical portion of the kidney as the malpighian bodies, which are small rounded masses. They are deep red in color, which is the typical color of Uranus, signifying the end.

This rounded body is the pouch like beginning of the urinifero tubule. It is a capillary centre. The small arterial twigs enter into this pouch, and the corresponding veins pass out of it.

We will now see one of the most complete reproductions of our system of waves we have yet examined in the body. Moreover, the whole wave reveals the six vibrations instead of four, as in most of the other tissues we have examined, showing an approach



Malpighian body.



Proximate convoluted tube.



Spiral tube of schachowa.



Descending limb of Henles loop.



Ascending limb of Henles loop.



Convoluted tube.



Receiving tube.

In a cross section of the pyramid we divide six substances:

1. The large collecting tube.
2. The branch collecting tube.
3. Henle's loop.
4. Artery cut across.
5. Vein cut across.
6. The connection tissue.

Glands.

The secreting glands throughout the body tend to assume a convoluted form; the object of these convolutions being to increase the secreting capacity. Therefore, we may understand they are of a vegetable nature and under control of the lymphatic system.

The large ductless glands, situated near special organs are their moons, like the suprarenal capsules above each of the kidneys. Instead of secreting fluids to pass into the circulation, they develop -

— ² Nucleated cells, which must, themselves, be nourished by the blood. They, however, give, as compensation, vital energy. They are store houses for energy.

We will refer to only a few more instances where our physical wave continuity exhibits itself.

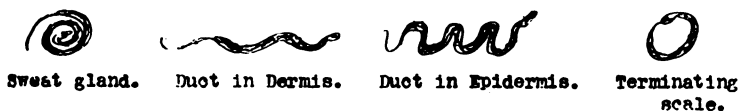
The course of the food which we eat follows the rule, as it passes through the alimentary canal. Moreover, the course of this canal intimates the purpose for which it is intended, by approximately adjusting itself to correspond with the ultimate tissues which the food is intended to nourish.

We place the food in our mouth, a round opening in the head
 ; we masticate it with our teeth, 
 we swallow it into the gullet, which is surrounded by the ribs
 ; it passes behind the sternum, 
 and the useless portion is ejected from the body through the
 pelvic bones 

The physical conformation of the muscular canal itself shows a decided tendency to adjust itself to these waves.

The Villi of the small intestine which absorbs the chyle, the lacteals and lymphatics, are perfect reproductions of the waves.

Add lastly, the skin, the seat of the special sense of touch, and its appendages follow the law.



It will be noted, this set of waves represents the end, or the return, to potentiality. All the tissues of the body are following these waves, seeking release for vibration and energy from matter. The final evidence of the vegetable nature of the nerves is the hair, on the surface of the body. It is non-vascular and has no sensation. We see it most prolific on the head, within which all the nerves centre.

Every part of the human body is shedding all the time, dead matters from which the organic life waves have escaped, leaving only inorganic matter.

Every living tissue in the human body is constantly dividing, and subdividing, in order to give greater surface to the oxydizing influence of the atmosphere. The very first effect of the fertilizing of the ovum, is cleavage, and multiplication of bodies, and consequent increase of surface area.

The opposing force is equally as active, however, and in its effort to restrain expansion, arranges the new cells into rings

and globes, presenting as little external surface as possible; this finally develops the sense of respiration to carry the atmospheric influence into the interior of bodies in order to disintegrate them; destructive assimilation is the result. The negative forces meet this with nutrition.

There are four serpents trying to release themselves from each other and coil up, each in his own state.

The nitrogen serpent, in the flesh  .

The oxygen serpent, in the muscle,  .

The carbon serpent, in the bone,  .

The hydrogen serpent, in the marrow,  .

And, then, there is the great potential serpent trying to reconcile them all in one body or state of potentiality the end of activity - vacuum, 

Why multiply the simile further? If we have not established a universal law, we have revealed a coincidence equally remarkable; because, it proves habit to be paramount to law, when once established in matter.

Man the Crowning Act of Nature.

We now refer to the man within the potential centre - the God-man, who rules over man, the universe. That being, whose seat is in the sensorium, in the pons varolii, and who holds within his hands all the nerves of the human body - the soul.

For the physical man to be a universe, his maker must be the God, for God made the great universe from the first primary ovum, out of which vibration came. Then the first great cause is the first God, and God of all. The man God, with his seat in the sensorium, is the Lord God of the man universe, According to the teachings of the Christian religion, God manifests himself in the flesh in the man, Christ. Christ is the savior of man, therefore, man is not the Christ, but another individual being, subject to Christ's special saving function.

Having made ourselves familiar with the fundamental principles of nature, we are enabled to reveal the truth of the Bible teachings and to show that they are of the deepest scientific significance.

With the veil of superstition and hypnosis torn aside, and emotion, and hysteria, cast out, we may know and reverence the true God with the certainty that he is a great and benign being, with a secret chamber in our own brain, wherein he presides as high priest, to tell us what we shall do to be always at peace with the universe of which we are a part.

The spinal cord, with its nervous system, is this God-man with his centre in the pons varolii where the greater, universal God talks to him. When nervous energy traverses the nerves, and passes into and becomes fixed in the tissues of the physical body,

it is Christ, the warm wave of oxygen, the blood, that releases it and returns it to the God centre.

It is no fault of the authors of the scriptures that man has not been able to understand them, but the fault of false and designing teachers, who purposely blinded the eyes to fundamental laws revealing the truth, in order that the truth, itself, might not be known by mankind at large.

It were far better that man have his eyes pierced than have his soul blinded.

Our wave theory does not substantiate a Christ, a special dispensation, but it does reveal the rudimentary Christ in every human being, to be ^{developed} awakened by right and truthful teachings.

God, Christ and Man are states of being, and phases of life, and they are all in Woman.

"Man is the head of Woman, Christ is the head of Man, and God is the head of Christ."

Now let us lay aside prejudice and return to first principles.

We said in our early lessons, that, energy is all we can find in first cause. We find energy starts from vacuum and returns to vacuum, this being the potential state of being, or the God-head.

We saw this first cause come out of vacuum and develop into four primordial creative vibrations, united in one positive wave.



These waves are fundamental, and universal, in the creation of material bodies. They are inseparable; therefore, are one body with four essential parts.

We saw these waves assume physical bodies and become our prime atoms of matter,

Nitrogen, oxygen, carbon and hydrogen. They are ever in pursuit of each other.

We are prepared to declare, that here is the first great cause, in his four primordial, physical parts.

The life wave in each, representing its spirit.



God.



Christ.



Man.



Woman.

Nitrogen.

Oxygen.

Carbon.

Hydrogen.

Now, we understand how they are all in woman. We have seen these three positive waves repeatedly coil up into the hydrogen coil. Then, woman represents the organic coil, and in this coil are the other three vibrations.

We know this applies to organic bodies as well as to the atomic and molecular worlds; therefore, woman contains, the God, Christ

and Man princip/les, within her own being, and the four are seen in the primordial organic atoms.

Flesh.	Muscle	Bone	and	Marrow.
o	p	o		o

Thus we establish the organic seat of the four in physical man.

The brain is the great molecular ovum and we have seen its four prime divisions.

The cerebrum is the God head.

The cerebellum is the Christ head.

The medulla oblongata is the man head.

The Pons Varolii is the woman.

It has always been held that man represents love, and woman represents wisdom, and we have before us a remarkable vindication of this theory. The deep origin of nearly, if not all, the nerves of the human head and body is found in the coil of the Pons Varolii, and thus we see the light for all the other departments coming out of the woman centre. Do we pay too high a tribute to woman, when she is the mother of both our body and our mind?

Wherever, in nature, we see a physical manifestation of any of these waves, there, is a seat, centre or medium for that principle, be it God, Christ, Man or Woman.

They are all focused into the man universe, the highest plane of evolution. "Male and female" man was made.

These are the four great physical beings which make the God-man.

The God of flesh.

The Christ of Muscle,

The Man of bone.

The Woman of Marrow, or medullated matter.

The Medium of God is the spinal cord and the cerebro spinal nerves.

The Medium of Christ is the blood.

The Medium of Man the lacteals.

The Medium of Woman the lymphatics.

Whether, in the forming of primordial atoms, molecular bodies, planetary systems or organic beings, these four primordial principles are one and inseparable, and in the physical organic state constitute one being, with four co-ordinate parts.

God sends Christ, his only begotten son, to release man from bondage.

Then, positive nitrogen, God, and positive oxygen, Christ, are, normally, in a free state, and have the power to release their vibrations, and return themselves to a state of potentiality, at the same time, absorbing and carrying with them the other waves.

It is the prime carbon atom, which the oxygen-Christ is to release from molecular bondage, and to accomplish this, oxygen itself, must take on the carbon body, pass out through the functions of hydrogen, and, by his own spirit return the carbon vibration to the God state of being. This gives us the rescuing waves.



We have followed these waves in the development of the physical man. They are all clothed in organic tissues. It is man alone, the carbon, which seems destined to sink into the utter darkness of bone. Only the disintegrating influence of heat will dissolve the hard calcareous deposits.

Respiration is the agent of God.

Circulation is the agent of Christ.

God is the positive nitrogen of the atmosphere and Christ is the positive oxygen of the atmosphere, as primary vibrations.

Now let us see how the latter happens to be the son of the former.

In our lesson on the Primordial Waves, we said that the sun sends light to the earth, but no direct warmth, but that a latent warmth is aroused, upon the sun's light coming in contact with the earth's surface; the mingling of this positive light and heat gives us our atmosphere of nitrogen and oxygen, the latter being the direct product of the former.

We breathe into the lungs, this same atmosphere, and it surrenders to the blood the oxygen, and thus God gives up his only son, to go to the rescue of man, carbon.

The red blood corpuscles become the physical body of Christ, the oxygen, which, by the circulation, is carried to the system. Combustion occurs upon oxygen and carbon coming in contact, and carbonic acid is formed. This liberates carbon in a gaseous form, which is returned to the lungs by the venous blood, and is exhaled into the atmosphere, the spirit of carbon returned to God.

Christ, the heat generated by this combustion, manifests in the muscles  and manifests God in the flesh , and thus we see, "God manifested in the flesh by the man, Christ."

This spirit wave, released by Christ, is wise, having passed through all the experiences of matter. God said of man, "Behold, he has become as one of us." Upon receiving his release he becomes a factor in building other physical bodies: his tendency is always toward the earth.

Our waves will reveal how God manifests himself in the flesh, and how the body is "dying daily" and the spirit man is being released.

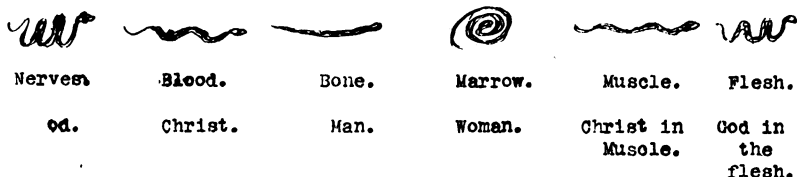
The nerves control respiration.

The blood is the circulation.

The bone is the subject, here, of disintegration.

The marrow, in this act, is regeneration,

and out of this develop the muscles and the flesh.



After ~~having~~ surrendered his body in the formation of carbonic acid, Christ is no longer in the flesh, but in the spirit, he becomes the warmth of the body. All pain represents the physical suffering of Christ, while in the body. No pain is felt where there is no blood.

Then, we see, God in the flesh, signifies atomic activity, nervous energy, aroused by the sensory nerves which are located in the flesh of the body. The seat of respiration is the capillaries of the tissues.

Christ represents molecular activity, engendering warmth and growth. He is aroused by the God centre and his impulse is over the motor nerves. His physical agent is the muscular system.

Physical Man, the bones, is helpless without the activity of the muscles, which converts the bones into levers, to move the body. Spiritual man, carbonic acid gas, is released by the heat caused by muscular action and destructive assimilation.

In the development of organic life on a world, an atmosphere must first be made about it, not alone to sustain life, but to beget life.

Without vegetation, and animal life, a world is truly dead. It is in the carbon state, when the coming of a Christ is necessary to warm it into life.

Our Man universe, like every other system as a whole, is a world, and should bear fruits like other worlds. We have said, the purpose of vegetable and animal life is to release vibration from inorganic matter and return it to the potential state. Then the fruits of man should be spiritual fruits, and his physical parts are but agents to the main purpose.

We live in the atmosphere provided by our earth. It is composed of nitrogen and oxygen. These two gases are not, alone, sufficient to make a habitable world; therefore, we evolve carbon and hydrogen which unite with the nitrogen and oxygen, and thus we form about ourselves an atmosphere, in which we can best develop spiritually. The manifestation of that development is by speech

and action. Our thoughts take outward or physical bodies.

Our physical development, in like manner, betrays the density of our carbon *natures*.

The vegetable kingdom is the medium by which the living nitrogen and oxygen of our atmosphere are supplied. The universal God, and Christ, reach us through it. The flowers release nitrogen and the leaves release oxygen, to enrich the air we breathe, with living energy.

The fruits supply the food for animal tissues, the compensation being, the release of carbon and hydrogen, as we have seen.

The new atom formed from a union of these four elements is of a very high order, partaking of old and new habits.

The vitalized air which man breathes, will not atomically unite again, with the crude earth, having once tasted of freedom. The fruits he eats, not having been reclaimed, in their potential state, by mother earth, have not unlearned their lesson of light and love in the atmosphere; therefore, they beget tissues inspired to rise above the carbon. These become inherent senses in the animal.

Finding his psychic aspirations looking ever toward the sky, man became an inverted tree. His head is the root and is up in the air, while all of his members normally point toward the earth, as the place from whence he came. His material products are

given to the earth as compensation, but the inverted tree has yielded a new fruit, a being with a nervous system influenced. and primarily controlled, by nitrogen, the atomic gas.

The animal, since its first creation, has shown a tendency to rise upward, till physical man stands erect, and can, if he so chooses, form a physical continuity with God, and become all wise with him.

The God-like man has the power to think and reason; thought is purely vibratory; therefore, is atomic action, an attribute of God.

Thought combines the four prime atoms of energy in the atmosphere about us, and makes the little spiritual worlds, our brain cells, filled with the wisdom of all ages, did we but know how to interpret it.

Thoughts are entities, minute spirals of pure vibration, the satellites of those who release them. The atmosphere is filled with them. They are visible to the naked eye. They are accessible only to those who have built about themselves an atmosphere to attract them.

It is possible, to develop a discriminating spiritual sense, which will accept those which are useful and beneficial, and reject all others.

It is possible to read from the atmosphere the thoughts of persons about us.

In a perfected state, man will be enabled to place himself in atomic relations with universal mind, which is the vibratory world. Time and space will be wholly eliminated in the transference of thought.

He will then be able to exercise every special sense in a God-like manner, and thereby know the mind of every atom of matter in the universe.

He will feel himself released from the carbon age of commercialism, and ^{he may} pass back into the age of philosophy, and view for himself the things which inspired the prophets. He may see and know the ~~essenic~~ beings who left a great light, to this present age, in the Holy Bible, holy because of its antiquity, as well as ^{for} its sacred and inspired nature.

It is the power which Christ releases, ^{which forms its contact,} The tangible Christ, who represents a tangible God. They are not beings to inspire fear and dread. They dearest emotion and hysterical fright. They love the robust and laughing. Laughter betrays a bounding spirit, light and free. The long, cadaverous, sallow face is indicative of a spirit bound up in carbon beyond release. The smile of the Christ cannot reach and warm it. The spirit from

that body can only be released by material fires, pain, toil and *and*

To those, who, in life, attain to the atomic powers, all is light; because by atomic action wisdom is transmitted to molecular bodies. The atoms are united in vacuum, and wherever there is a prime molecule, there is vacuum. The heart is the receptacle of all knowledge and the fountain of all wisdom in the human organism or man universe.

Each individual brain cell is a molecular ovum, capable of being fertilized and multiplied indefinitely by the atomic stimulus.

The attitude of mental vacuum is the grand secret.

Practice, and patient perseverance, bring a rich reward to those who will surrender, only a few of their more worldly and material desires and beliefs.

Mental vacuum will enable the all knowing vibrations to fertilize the brain cells with love and wisdom, and light will be given to the whole human mind, and to every atom in the body.

The atmosphere around us is a dense body compared with pure vacuum. Yet vacuum pervades it all, and free vibration resides therein.

The atmosphere is filled with microscopic life, minute physical bodies, one, a globe of light, the other a dark body, *shadow* the physical. The one, is the nitrogen atom, the other, *etc* oxygen.

The eye may be cultivated to see these germs and critically examine them.

They appear to best advantage in bright sun light, which ~~produces~~ ^{develops} them.

The white globe, is seen to frequently unroll, making a little light streak, at the end of which appears the darker body of oxygen. When carbon and hydrogen vibrations are released by vegetable or animal, the four at once unite to form an atomic ovum filled with the wisdom of the greater universal mind.

These bodies dart about in the atmosphere in the most animated manner, displaying eager activity. In a single field, the eye may perceive as many as one can note of stars, in a single sweep of the milky way.

During meditation a mental vacuum is formed, and these life germs rush to the brain, nourish and stimulate it for higher thought, and quickened perception. In early morn is the most propitious time for such meditation.

In an ordinary conscious state, with our minds occupied by superficial things, these germs are impotent to our senses. We cannot breathe them into the lungs. They will not unite with physical matter excepting through the brain. They rush to mental vacuum.

By systematic thought, and meditation, the brain receives a direct stimulus through the external sense organs, which are the peripheral ends of the principal cranial ~~wavve~~ ^{waves}, created for this purpose.

By concentration and suspension of active thought, mental vacuum is formed, and this brings the senses in direct physical contact with the universal wisdom, and pictures not created by the carnal mind are visible to the conscious ~~eye~~.

The eye can be cultivated to see and the ear to hear in vacuum.

Mental communication between minds may be established regardless of distance and time by which the instantaneous transmission and interchange of thoughts may be enjoyed.

To the select few, who are willing to make reasonable sacrifices, sufficiently long to perfect themselves, mechanical aids will not be necessary. Then crime will be impossible, for it can be foreseen and prevented.

We are, now, in photographic communication with every sun, planet and star in the heavenly body, and thus we obtain the crystal forms for the mineral kingdom, and the geometrical figures for our leaves, flowers and fruits of the vegetable kingdom.

As each planet comes into new life, it flashes us a photographic report of its progress and we adopt the new forms, and work them into our own organic fabrics.

The snow crystals are such types.

In each kingdom, mineral, vegetable and animal, we have a perfect reproduction of what has appeared on the other planets.

Saturn, especially, sent us designs for our vegetation, through hydrogen or moisture. The beautiful snow crystals are the solidified patterns for the tissues, fruits and minerals.

Jupiter gave us forms for our fishes, birds and insects.

Mars gave us our animal natures

Our psychic natures we receive from the sun and the moon.

As the mists rise from the earth's surface the fine globules are little balloons of commerce between the earth and the stars. Upon reaching certain planes they come in contact with certain piratical conditions, just like in commerce, and it is during the battle royal of thunder and lightning, between the elements, they receive the positive wave-pictures of things and events, photographed into them by the lightning, and they return to the earth laden with fresh wisdom which it surrenders to the organic life.

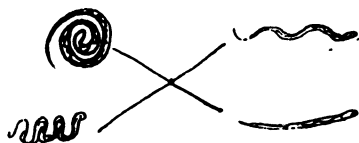
A proof of this principle may be easily found.

When a railroad train speeds along the steel tracks in a fine misty rain, its windows are literally covered with messages, confiscated by the rain drops from the adjacent telegraph wires.

The dots, and dashes, of the telegraph code are plainly and distinctly discernible; the dots or dashes representing single letters or brief words are contained in each drop, but, owing to the great disturbance of the atmosphere, no complete sentences can be recorded upon the window. Nevertheless, each drop delivers its message perfectly, and in exact continuity with which the dots and dashes were made by the operator. This continuity is the deep scientific mystery.

The rain drops, actually, steal from the wires above, the messages, and deposit them upon the window of the hollow speeding car which tends to form a vacuum.

The proper medium must be a sharp contact between cold and heat, with moisture on the cold side and vacuum on the warm side, an antagonistic arrangement of our creative vibrations.



Possibly the double glass^{ss} of the car window has some influence.

Here is a nice ripe plum for some energetic scientific genius to pluck.

We can say, with all confidence, to scientific investigators, all wisdom may be found in vacuum and vacuum is everywhere. It requires no tall towers, nor deep dungeons; a vacuum the size of a pea contains the wisdom of the world, because it is a magnetic contact with the universal mind.

We have said enough to enable those who seek wisdom to find it.

Your never failing guide, over the four primordial waves, and the faithful serpent, with his tail in his mouth.



Adam.

We promised to again refer to the psychic process by which certain materials are made by the organs to nourish the tissues of the outer body.

We will here give scientific interpretation to another statement in Genesis, of the Bible.

The first Adam is the outer physical man, "of the earth, earthy."

The second or psychic Adam is quite a different being.

We shall be brief in this reference because this belongs in our, Interpretation of Genesis. The inner organs represent the first and true Garden of Eden.

The psychic Adam is born in the spleen; we have seen that organ receive its portion of the red blood corpuscle destroyed in the process of digestion.

This substance is elaborated in the spleen and receives the sense of the state of being. It is the first spark of organic life engendered in the beginning albumen. It is the angel principle. Its physical sign is  . Its shape suggests its purpose, the outer ring of the red blood corpuscle. This shape also emphasizes its potential and primitive nature.

The second phase of life comes from Jupiter, the liver.

It gives to the new born saint, the sense of feeling, which engenders heat, and desire to attach itself to surrounding matter.

It is thus tempted to partake of forbidden fruits, products of digestion... It assumes the physical form of the satan principle
 due to this new sense.

The third phase of life is received from the stomach. The new plasmasic material receives from the stomach, the first product of digestion, albuminose. It passes through the membranes of the blood vessels and directly into the blood and converts the partially formed organic matter into albumin, giving to it the sense of taste, and consequent sense of hunger; the albumin is now a material body and in order to procure food it assumes amaeoid movement and puts out feelers or processes assuming this physical form.

While it has latent light from the liver, and latent warmth from the stomach, these are negative: therefore, it can neither see, hear nor smell.

But it has independent motion, and sensation, and latent qualities to develop the other senses by coming in contact with the proper materials.

We recognize it now as the leucocyte or white corpuscle.

From the liver it passes by the portal vein to the heart where it attaches itself to the corpuscles of the ~~venous~~ blood and at once receives the sense of seeing and hearing.

It is at this point God says, "Behold, the man is become as one of us, to know good and evil; and now, lest he put forth his hand, and take also of the tree of life, and eat and live forever; therefore, God sent him forth from the Garden of Eden, to till the ground from whence he was taken." And the white corpuscle, attached to the red corpuscle of the venous blood is sent to the lungs, the land, there to be properly vitalized and sent out in the plasma of the arterial blood to become the marrow of the bones and substance of the lymphatic glands, in order that its wisdom may not influence the medullary matter of the nervous system.

It is the conscious ego of the physical body which says, "Behold, he has become as one of us." In its free state, the white corpuscle is an independent living matter capable of attaching itself to tissues and causing abnormal growth or assuming a form to antagonize the processes of the system. It may be seen clinging to the walls of the blood vessels reluctant to move on.

It was this state which the guiding senses of the organic system promptly suppressed, by sending the dangerous element to the bottomless pit, the bone, and putting it to work building and nourishing the bone - "tilling the land"-. This reveals a very important process in the human organism.