

# Trinity of Forces and Matter

by

Dale Pond

referencing and abridging the researches of

John Worrell Keely

Walter Russell

Edgar Cayce

Thomas Bearden

and others

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## Introduction

The search for the secret key idea to unlock Free Energy, Alternative Energy and the Source of our Being has been an arduous and long investigation. Is there a key idea that unlocks this mystery? Is there a key concept that rends the veil between ordinary human consciousness and that high level of consciousness obviously held by Keely, Russell and other notables that allowed them to access knowledge surpassing our own?

The premise of this book is Yes, there is a singular concept or idea behind this energy tapping and consciousness process and this idea can be known and used for the benefit of humanity.

Much has been claimed and written about what this storehouse of unlimited energy is and what unlocks it. Thomas Bearden covered it fairly well in his technical engineering book.<sup>[1]</sup> Keely developed electricity from the vacuum in 1895.<sup>[2]</sup> Walter Russell developed and operated his Optic-Dynamo Generator in the 1950s.<sup>[3]</sup> The Alternative Energy literature is filled with stories where others have invented and built other forms of devices that accessed and produced abundant electrical energy.

Did they all avail themselves of the same basic idea? If yes then what is that basic idea?

## The Nut to Crack

It is well known there is unlimited energy held in or accessed through vacuum.<sup>[4]</sup> This Source has been called by many names: vacuum<sup>[5]</sup>, scalar potential<sup>[6]</sup>, Universal Consciousness<sup>[7]</sup>, Undifferentiated Mind<sup>[8]</sup>, Stillness<sup>[4.1]</sup>, Equilibrium<sup>[9]</sup>, Latent Force<sup>[10]</sup> and God<sup>[11]</sup> just to name a few synonyms. Do all these named sources have common denominators

of characteristics? Can they be stripped down to a simple term or set of attributes?

In the many studied sources for unlimited energy there are two basic themes. The first is a Source of unobservable yet accessible Potential that has within it unlimited power and energy. The second theme is the observable access and use of that Latent Force or potential as Kinetic Energy or work. There is a third associated concept being the tapping into the unobservable Potential, triggering it and Transforming it into observable and useable Kinetic Energy.

Obviously the Source of Potential is a quantum or non-newtonian state - an unobservable static state. The final end use of that Potential is a newtonian, mechanical or electro-mechanical process (including solid state digital mechanisms) - an observable state. This boils the problem down to three significant milestones:

- 1- Scalar Potential
- 2- The trigger and 'Bridge' between Potential and Kinetic.
- 3- Kinetic Application

The first milestone is identify this unobservable *Scalar Potential*. The term '*vacuum*' is often used in the conventional science literature and is a good synonym to *Scalar Potential*. It is well known in physics the vacuum contains significant quantities of latent energy.<sup>[4]</sup> Other synonyms such as *Stillness*<sup>[4.1]</sup> and *Equilibrium*<sup>[9]</sup> will also be used. For purposes of this book the term *Undifferentiated Mind*<sup>[8]</sup> will also be employed as it is held to be that which permeates the *vacuum* and is the ultimate source of *Scalar Potential*.

The second milestone is a triggering, tapping or Bridging mechanism by and through which the Scalar Potential is accessed, released and or transformed into useable Kinetic Energy.

The third milestone is the simplest in that there already exist numerous well known electro-mechanical devices or processes. This leaves us with the first two milestones as the *nuts to be cracked*.

This entire three step process constitutes an Open System<sup>[12]</sup>. It is an Open System in that a newtonian electro-mechanical device derives its motivational energy from a known non-newtonian or quantum non-electro-mechanical source. An electro-mechanical device that derives its motivational energy from a known newtonian source such as batteries is a Closed System.<sup>[13]</sup>

Can an unobservable scalar source or state be detected and accessed?

By what mechanism can this non-newtonian quantum state be detected?

How is an observable detecting mechanism 'tuned' to the unobservable scalar state or Source?

How is that unobservable latent state converted into observable kinetic energy?

What is the mechanism of conversion?

Supposing useable electrical current is the end goal or product how can seeming nothing (undetectable pure scalar potential) be transformed into a powerful source of electrical current possessing all the usual attributes of electrical current?

## References

- [1] The Final Secret of Free Energy; <http://www.svpwiki.com/The+Final+Secret+of+Free+Energy>
- [2] Keely - Electricity from Space; <http://www.svpwiki.com/Keely+-+Electricity+from+Space>
- [3] Russell's Optic Dynamo-Generator; <http://www.svpwiki.com/Russells+Optic+Dynamo-Generator>
- [4] Energy from Vacuum; <http://www.svpwiki.com/Energy+from+Vacuum>
- [4.1] Stillness; <http://www.svpwiki.com/stillness>
- [5] Vacuum; <http://www.svpwiki.com/Vacuum>
- [6] Scalar Potential; <http://www.svpwiki.com/Scalar+Potential>
- [7] Universal Consciousness; <http://www.svpwiki.com/UNIVERSAL+CONSCIOUSNESS>
- [8] Undifferentiated Mind; <http://www.svpwiki.com/Undifferentiated+Mind>
- [9] Equilibrium; <http://www.svpwiki.com/equilibrium>
- [10] Latent Force; <http://www.svpwiki.com/Latent+Force>
- [11] God; <http://www.svpwiki.com/God>
- [12] Open System; <http://www.svpwiki.com/Open+System>
- [13] Closed System; <http://www.svpwiki.com/Closed+System>

## Source

Fountainhead, author, spring, origin, root, originator. [see [Source One](#), [Mind of God](#), [Scalar](#), [Void](#), [Space](#), [Mind Force](#) the hidden [Scalar Force](#)]

### Source of All Energy

*"The mighty forces latent in corpuscular matter, by which we are surrounded, are all held in oscillating vortex action by the Infinite Designer of workings hidden from us, until the time is ripe for their disclosure. This latent, registered power interchanges sympathetically with the celestial radiating streams, whereby light, heat, electricity, magnetism and galvanic action are propagated in their different orders, vitalizing all nature with their life-giving principals.*

*When this great scientific and religious truth has been made known, and established by demonstration, all controversy as to the source of energy will be for ever silenced. If I am the chosen instrument to develop this knowledge, and to make known the conditions which surround this pure truth, it is only that I may hand the key to those who will use it to enter the doorway that opens into the inaudible, and thus gain an insight into the now invisible region of the operation of Nature's most powerful governing forces, in the control over terrestrial matter by celestial mind."* [Keely in [Keely and His Discoveries](#) pg. 365-367]

### Universal Source

*". . . Know that the power or strength for any influence as related to the help of others must come from the universal source and not from self alone. For the individual may sow the seed, the Infinite must give the increase - it must do the multiplying. Man can detract, but he can add little to God's purpose in the earth save through the grace and mercy of God Himself."* [Cayce (3478-2)]

### Sun as Source Nikola Tesla

*Whence comes all the motive power? What is the spring that drives all? We see the ocean rise and fall, the rivers flow, the wind, rain, hail and snow beat on our windows, the train and steamers come and go; we*

*hear the rattling noise of carriages, the voices from the street; we feel, smell, and taste; and we think of all of this. And all this movement from the surging of the mighty ocean to that subtle movement concerned in our **thought**, has but one common **cause**. All this energy emanates from one single centre, one single source - the **sun**. The **sun** is the spring that drives all. The sun maintains all human life and supplies all human energy. [Nikola Tesla, The Problem of Increasing Human Energy: With The Special Reference To The Harnessing of The Sun's Energy]*

"We herein print two diagrams to symbolize both ends of the compression-expansion pump, which this universe is. We cannot move our little finger without gaining the power to do so from the **vacuum Source** of that power. We do not know that fact yet. We do not yet know that we live, and breathe, and express our multiple desires only by constantly taking power for each **cycle** from **God** and giving it back to Him at each cycle's end. Man has not yet become aware of the fact that he is but the **motion** within the divine Cosmic vacuum tube which sparks its little **light** from out of its dark, and is, himself, that dark when his **light** goes out. When man is fully aware of the fact that he eternally lives in God's invisible **Magnetic Light** as One with it, and merely manifests **life** by action in the **electric universe**, he will then know that when action ceases it merely ceases without affecting him, even as **sound** ceases without affecting him who made the sound." [Atomic Suicide, page 82-83]

"Fig. 63 is the body end of the **cosmic bridge**. It is that which is projected. It is **motion** compressed into a spherical image of the transient form that is eternally recorded in the **hole** which is within the **four rings** of the **seed**. That **sphere** is also composed of eight parts, and is centered by the **zero** of its **Source**." [Atomic Suicide, page 258]

Space  
Inertial Plane  
Plane of Inertia  
Stillness  
Equilibrium



# Fulcrum

## Bridge

"We must become more familiar with the office, purpose and construction of the **inert gases** in order to have a more definite knowledge as to our own immortal identity in that omnipresent heaven. To acquire that knowledge and comprehension the very first step toward it is full comprehension of the **invisible bridge between heaven and earth**, and the visible entrances and exits to it through the **nine inert gases**. Full comprehension of the interrelation of figures **6** and **7** is a necessary prerequisite to comprehension of further stages of God's ways and processes in this respect. Next in import is to become thoroughly familiar with the nine stringed instrument upon which the symphony of Creation is perpetually being played. **Fig. 5** has been prepared for just that purpose. At the beginning and end of each string is an **inert gas**." [[Atomic Suicide](#), page 236]

"If you have followed these steps with even partial understanding you will comprehend the description we have given you of the **bridge between man and God** which the **inert gases** provide, and the further description we will now add to it." [[Atomic Suicide](#), page 241]

"In **Fig. 62** you see God's end of the **bridge** between the **Creator** and His **Creation**." [[Atomic Suicide](#), page 259]

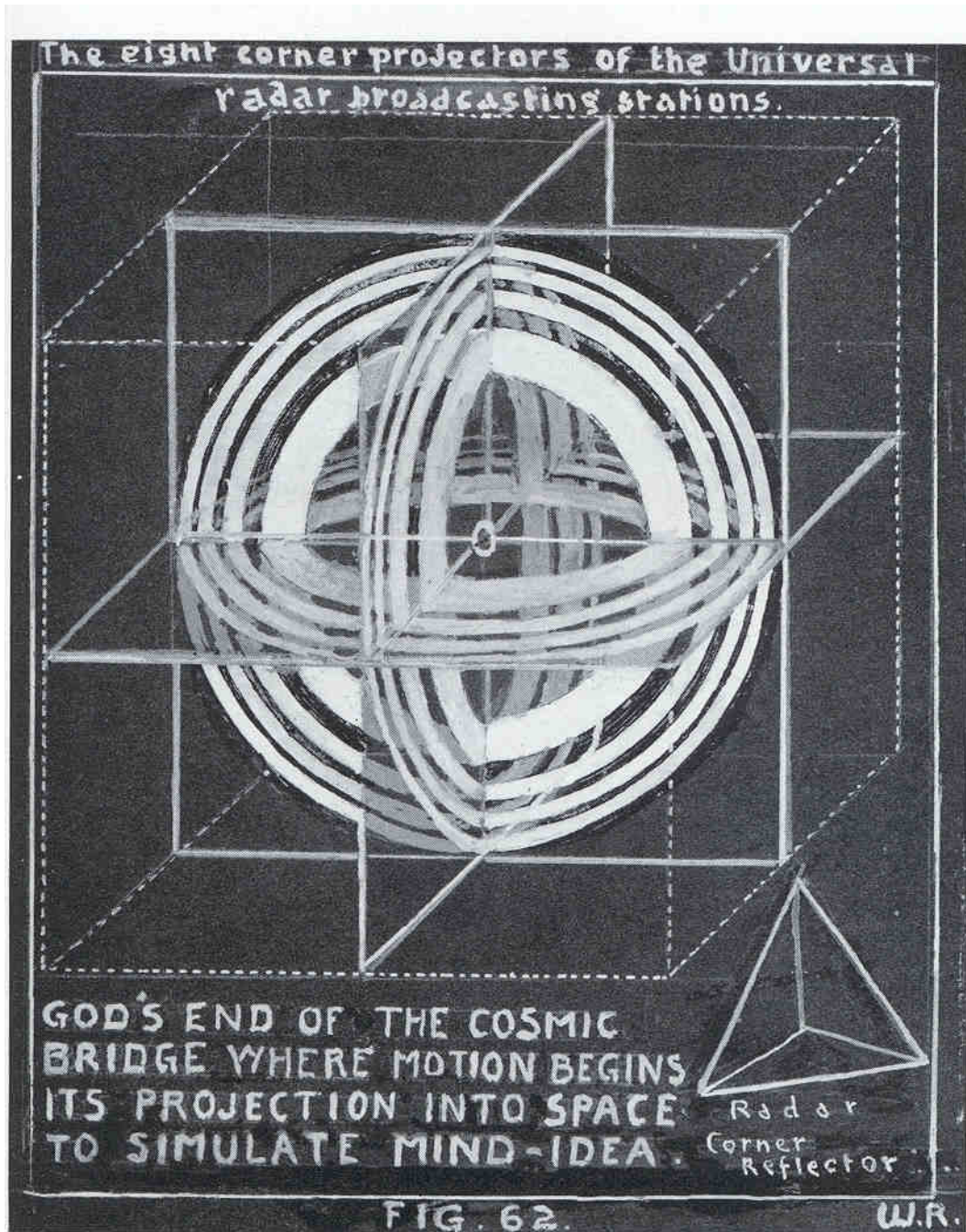
"Genius is the bridge between man and God. He who wills may cross it." [Divine Iliad]

*"Meditation is the bridge which the human must cross to transform the information which his senses have recorded upon his brain into knowledge which centers him in the Light of his universal Self."* [Home Study Course, Unit 9, Lesson 34]

Knowledge alone can bridge the gap to transcendency." [Home Study Course, Unit 9, Lesson 36]

"Genius is the bridge between man and God." [The Universal One, Book

## 01, Chapter 19 - Omniscience]



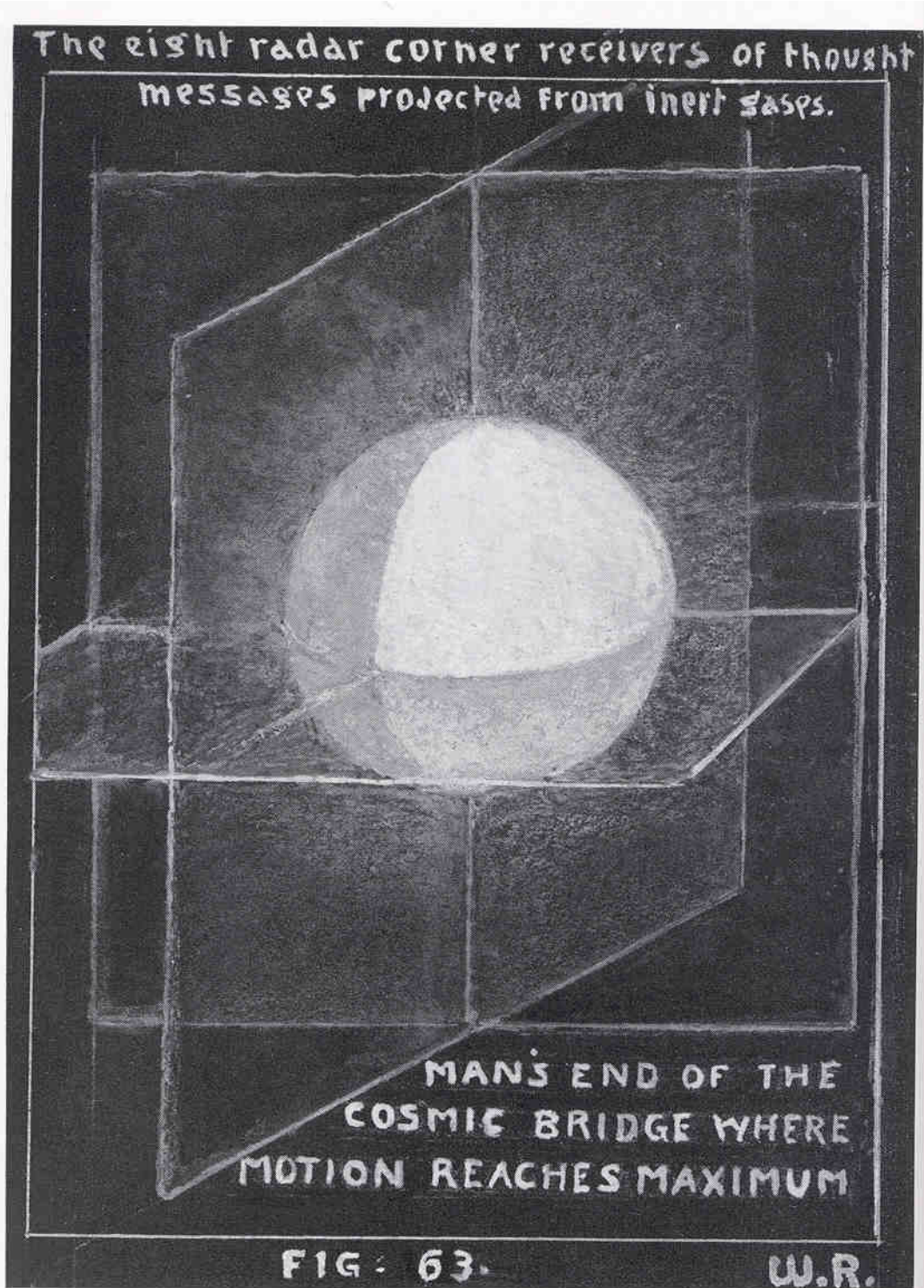
Matter begins by division of stillness in the inert gases and its projection by two-way motion into pairs of octave wave tones, which we call elements. The principle of projection is the same that man uses in projecting the concept of his idea into the moving form of the idea. It is the dual radar principle of Nature. Reduced to its ultimate simplicity, Nature is a series of echoes.

Figure 62 - The eight corner projectors of the Universal radar broadcasting stations.

God's end of the cosmic  
Bridge where motion begins  
Its projection into space  
To simulate mind-idea.

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"Fig. 63 is the body end of the cosmic bridge. It is that which is projected. It is motion compressed into a spherical image of the transient form that is eternally recorded in the hole which is within the four rings of the seed. That sphere is also composed of eight parts, and is centered by the zero of its Source." [Atomic Suicide, page 258]



The cube projector, shown in Fig. 62, is repeated in the cube receiver, shown herein. Motion which has been divided into pairs and thrown out into space by the projector, is multiplied in the vortices of the receiver, which corresponds to the corner reflectors of radar. Forms and sounds which are born in space are thus echoed back to space.

Figure 63 - The eight radar corner receivers of thought messages projected from inert gas|(inert gases)).

Man's end of the Cosmic Bridge where Motion reaches maximum.

The cube projector, shown in Fig. 62, is repeated in the cube receiver, shown herein. Motion which has been divided into pairs and thrown out into space by the projector, is multiplied in the vortices of the receiver, which corresponds to the corner reflectors of radar. Forms and sounds which are born in space are thus echoed back into space.

"In Fig. 62 you see God's end of the bridge between the Creator and His Creation." [Atomic Suicide, page 259]

## Kinetic State

**Observable** with the ordinary **five senses** or surrogate instrumentation, **Newtonian, closed system**.

*"The physical organism (through the medium of **celestial radiation**) is a **trinity**, both in regard to its **visible** form and the **invisible Sympathetic Streams** which govern it, in its individual and combined movements. The **visible** includes the **molecular**, the **atomic** and **interatomic** in combination; while the **invisible**, or **spiritual**, includes the **Etheric**, **interetheric** and **luminous** in combination, each of which is essential to the proper completion of the combined action, comprising as it does every minute law governing the **celestial** and **terrestrial universe**." [Keely, **Newton of the Mind**]*

"Fifthly, I have come expressly to help science bridge the gulf between **UNIVERSAL CONSCIOUSNESS** and the appearance of **electrical particles**. Without this bridge between the **Unseen Spiritual Dimension** and the **Seen world of 'matter'**, science will remain rooted in old ideas and concepts instead of moving forward into new realms of **spiritual/scientific research** for the betterment of mankind." [Christ Returns - Speaks His Truth, Letter 5]

## Inert Gas

CHEMISTRY - A gas in group 0 of the [periodic table of the elements](#); it is [monatomic](#) and, with limited exceptions, chemically inert. Also known as [Noble gas](#). These gases are [diamagnetic](#). [Helium](#), [Neon](#), [Argon](#), [Krypton](#), [Xenon](#), [Radon](#).

In the [Russell system](#) all those elements having 0 [potential](#) in his [Table of the Elements](#). Zero potential presumes undifferentiated element of its octave as whole undifferentiated [light](#) from the [sun](#) before [refraction](#) or [differentiation](#).

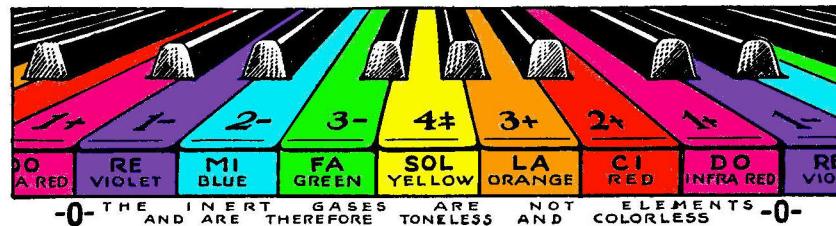


Figure 12.03 - Scale Showing Relations of [Light](#), [Color](#) and [Tones](#) (color added)  
(courtesy [University of Science and Philosophy](#))

"Think of the **inert gases** as [fundamentals](#) in [music](#). A [fundamental](#) contains the notes of its [Overtone Series](#). In this case each gas is a [fundamental](#) for its [Octave](#) of elements. Now consider the energy state ([wavefunction](#)) of that gas differentiating into the elements of its [Octave](#). Further, consider each gas as [Neutral](#) (no [polarity](#) or [depolar](#)). [Differentiation](#) ([refraction](#)) provides the [polarity](#) of the contained/generated element. These gases record the [IDEA](#) of those elements which are manifest as [wave forms](#). Therefore, **inert gases** are derived of universal [Mind Force](#) ([Keely's compound interetheric mind substance](#)) - just as a music [fundamental](#) preserves its [aliquot harmonics](#) or [overtones](#).

### Russell

*"Chemically these [zero points](#) of beginnings and endings are the [inert gases](#) of the elements, the patterned [seed record](#) from which the [octave waves](#) of the elements of [matter](#) appear. The [inert gases](#) are the [seed](#)*



*from which patterned waves of the elements spring as oak trees spring from the patterned inert gas which centers the acorn. The plane upon which the inert gases rotate is 90 degrees from the plane of carbon's equator, which is upon the wave's amplitude." [Russell, Mirrors and Lens of Cosmic Cinema]*

*"The total lack of knowledge of the purpose and workings of the inert gases and their relation to growth control from the seed, and their power multiplication principle which causes all effects of motion to step-up from their zero cold static condition to white hot heat and power conditions." [Russell, Russells Optic Dynamo-Generator]*

*"And of those most important of the elements, which man calls the "inert gases," nothing at all is known except that they will not combine with any other elements." [Russell, The Universal One]*

*"In this Universe, the octaves of the elements of matter "Grow" from seed, just as all things grow from seed. Elements are not fixed created things. They are pressure conditions of light waves. The inert gases are the cosmic seeds of matter in this Universe. They surround the zero from which motion springs and to which it returns. They are the seeds of the octaves of matter, and each octave has a different seed just as different trees has different seeds. The inert gases are the recorders in cosmic seed of this creating universe of infinite continuity." [Russell]*

*"The master-tone of each octave is the inheritance of the original motion of the thinking process of Mind. These master-tones are the "inert gases" which are classified in the zero group of the Mendeleef table.*

*The state of motion of these inert gases is that of motion-in-inertia."*

*"Motion-in-inertia is that state of pressure equilibrium which lies between any two masses.*

*"The inertial line, or plane is that dividing line, or plane, toward which all masses discharge their potential.*

*"It is the line, or **plane**, of lowest **potential** of two opposing areas of **potential**, where opposing pressures neutralize. This is the **plane** of minimum **pressure** of two opposing areas.*

*"The **master-tones** which represent a state of **motion-in-inertia** and are the **inert gases**, bear the same relationship to the elements that **white** bears to the **colors**. They are a registration of them all. **White** is not included in the **spectrum**, it has no place there. The **inert gases** should not be included in the elements. They have no place there. Of this more shall be written later in its proper place." [Russell, **The Universal One**]*

*"Records of Motion are **seeds** for repetition of **motion**. In the **seed** is desire for manifesting imaged forms of **idea**. All forms are **wave forms**. All **wave forms** unfold from **seed** records of those **wave forms**." [Russell, **The Secret of Light**, page 137]*

"You are seeing the **luminous metallic expansion bullets** which leave their metallic quality in their target to continue their expansion, and pass through, and beyond it into an **inert gas** named **niton**, then through another named **zenon**, then through another named **krypton**, and another named **argon**, and still another named **neon** until it finds its final resting place in **helium**. In passing through all these they have expanded them all to get back to the low pressures of the **4th octave**." [Atomic Suicide, page 39]

"That is something which the physicist can more readily understand when you tell him that the imperishable, invisible **seed** within that acorn is an **inert gas**, or a combination of several octaves of **inert gases**." [Atomic Suicide, page 233]

"It is necessary to know why **tungsten** becomes **helium**. There are ((**nine inert Soul-recording gases**|**nine inert Soul-recording gases**)), why **helium**? The **inert gas** for the **tungsten** octave is **xenon**. Why should **tungsten** not refold into **xenon**? The answer is that it does refold into **xenon**, but all of the **inert gases** are within each other and **helium** is the

balancing **inert gas** of the nine. Xenon expands into krypton. Krypton expands into argon, then into neon until it finds balance in carbon." [Atomic Suicide, page 246]

"Matter begins by division of stillness in the **inert gases** and its projection by two-way motion into pairs of octave wave tones, which we call elements." [Atomic Suicide, page 253]

"The question has long been asked by research scientists why it is that the **inert gases** will not mix, or unite with "any of the other elements." The first answer is that the **inert gases** are not electrically divided and conditioned elements, as all of the others in the nine octaves are. The **inert gases** begin in the first octave as invisible white fluorescent light of zero motion. They end at the 9th cathode in the 9th octave, as visible white fluorescent light, which has reached a speed of nearly 186,400 miles per second. Fluorescent light is that light which begins in the undivided electric spectrum. It is the beginning and end of motion. All motion is either red or blue, according to its sex. The end of motion at the amplitude of the 9th octave means that the divided spectrum has been united as one colorless, sexless light which has been under such high compression that it has reached its limit of conditioning by motion and must be transformed from the white light of visible motion to the invisible white Light of Magnetic stillness. The fluorescent light is that ending of electric power to divide motion into pairs, and to condition the pairs with the opposing sex tensions of electrically divided spectrum opposites. The **inert gases** are not pairs. They are not divided. Division takes place by light projected from them, but that projected light of spectrum pairs is the basis of the electrochemical elements, which have great volume and density in comparison." [Atomic Suicide, page 261-262]

"If you will study the corner reflectors of radar, as shown in figures 62-63, and their relation to ring projections from **inert gases**, and observe their spiral formation, as shown in Fig. 64, you will better comprehend the wave, which controls the construction of all matter." [Atomic Suicide, page 273-274]

**Inert Gases** are the invisible bridge between heaven and earth. See connecting link.

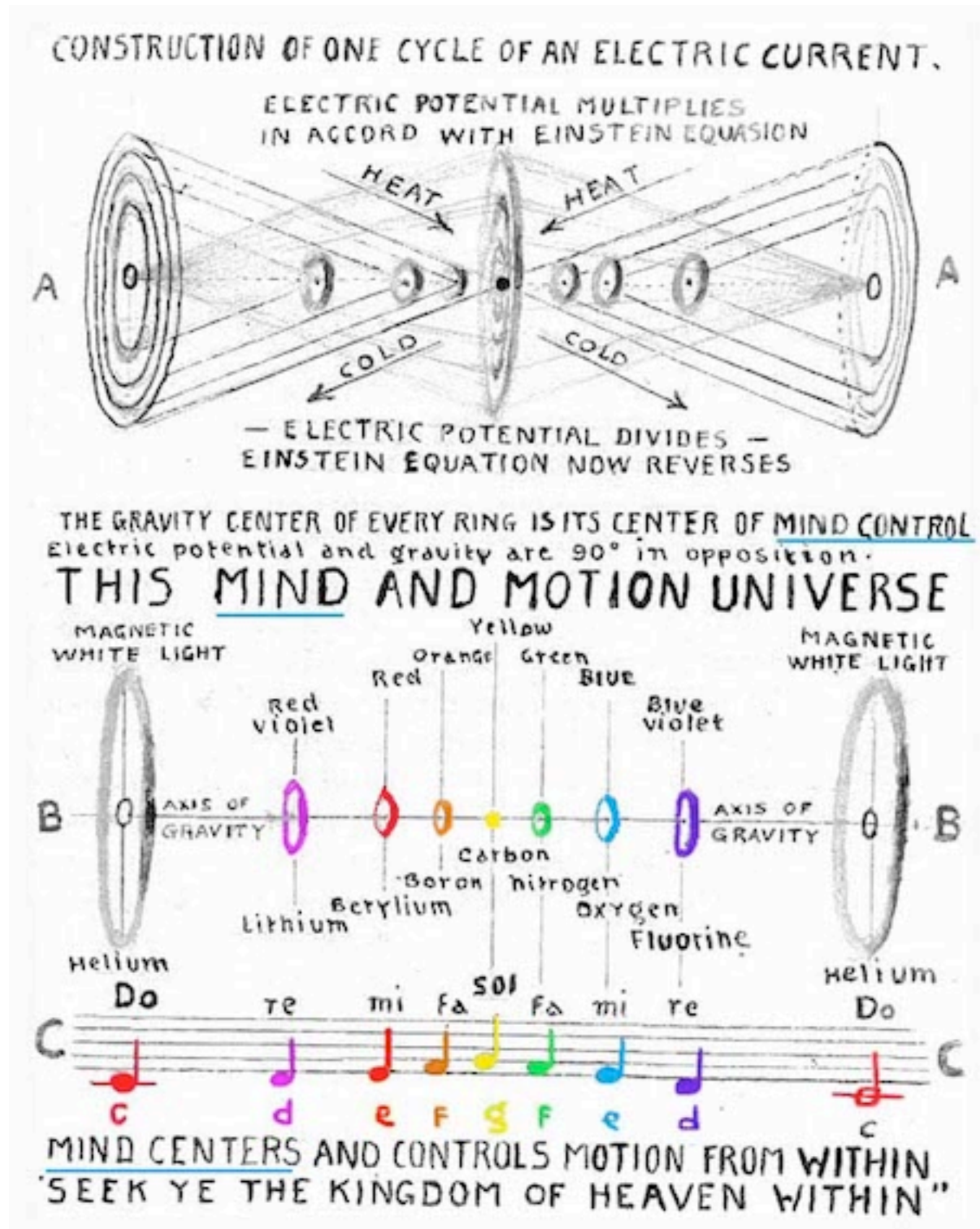


Figure 42 - Electric Current Cycle.

(scan courtesy of [University of Science & Philosophy](#))  
(see [Atomic Suicide](#), original black and white version)

**Inert Gases** are the [invisible bridge between heaven and earth](#). See [connecting link](#).

**Inert Gases** (According to [Walter Russell](#))

**Alphanon**

**Betanon**

**Gammanon**

**Helium**

**Neon**

**Argon**

**Krypton**

**Xenon**

**Radon** (Niton)

(See [The Russell Nine Octave Chart of the Elements](#))

## Disturbance of Equilibrium

"**Disturbance of equilibrium**, like **gravity**, is inherent, an eternal existing **force**." It is possible these two **phases**, **gravity** and **disturbance of equilibrium**, are simply the two opposite poles of **matter**, the **physical Universe**, the **positive** and **negative** poles of **matter**, controlled by the third and controlling principle, the **Universal Will**.

*"Unstable equilibrium, like gravity, is a condition born in each neutral center at the time of birth, and thus designed by the Architect as the connective link between the "dispersing positive" and the "attractive negative." The action inducing this "link" I call "sympathetic planetary oscillation".*

*"The enharmonic portion of the electric current carries the power of propulsion that induces **disturbance of negative equilibrium**."*

*"In his [Keely's] experiments of aqueous disintegration **disturbance of equilibrium** was brought about by using mediums of differential gravity in the disintegrator, air as one, water as the other." Snell Manuscript*

"**Disturbance of equilibrium** is the **prime mover**, aggregator and disperser of all forces that exist in nature. The **force of the mind** on **matter** is a grand illustration of the power of the finer over the crude, of the **etheric** over the **molecular**. If the differential forces of the **brain** could become equated, **eternal perpetuity** would be the result. Under such a condition the physical would remain free of **disintegration** or **decomposition**.

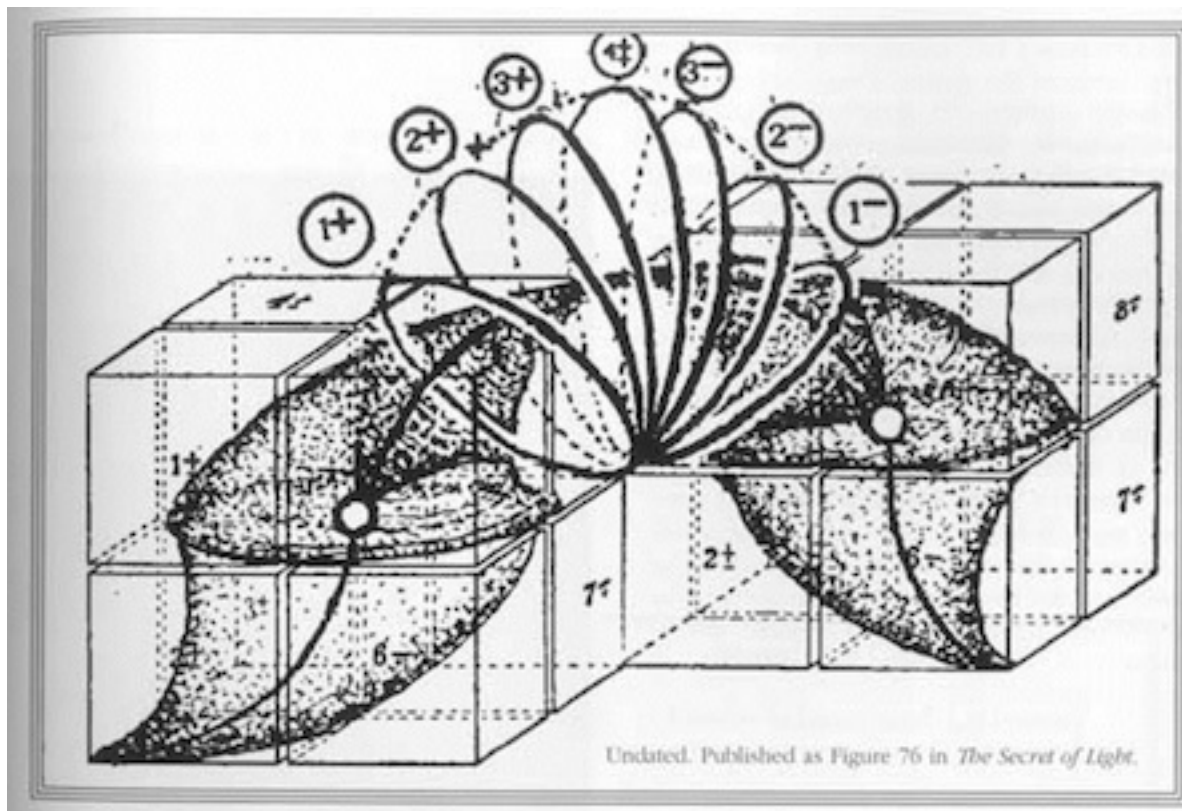
"But the law, laid out by the **Great Master**, which governs the **disturbance of equilibrium**, making the crude forms of **matter**, subservient to the finer or higher forms, forbidding anything **molecular** or **terrestrial** to assimilate with the **high etheric**, the law that has fixed the planets in their places, is an unknown law to the **finite mind**, comprehended only by the **Infinite One**." [True Science]

"**Disturbance of equilibrium** and **sympathetic equation** constitute the **dual power** that governs all the varied forms of **life** and **motion** which exist terrestrially, of which the electric or magnetic is the **prime mover** and regulator. All electrical action, no matter of what character, has its **sympathetic birth** by the intervention of that **current** of the **triune flow**, which I call the **dominant**, with the **Polar harmonic current**; all **sympathetic flows** being composed of **three currents**." [Vibratory Physics - The Connecting Link between Mind and Matter]

"The problem of the origin of **life** would become a matter of easy, analysis, writes **Keely**, if the properties governing the different orders of **matter** could be understood in their different evolutions. **Disturbance of equilibrium** is the **prime mover** is a grand illustration of the **power** of the finer over the crude, of the **etheric** over the **molecular**. If the differential **force** of the **brain** could become equated, eternal perpetuity would be the result. Under such a condition the physical would remain free of **disintegration** or **decomposition**. But the law, laid out by the Great Master, which govern the **disturbance of equilibrium**, making the crude forms of **matter** subservient to the finer or higher forms, forbidding anything **molecular** or **terrestrial** to assimilate with the high **etheric**, the law that has fixed the planets in their places, is an unknown law to the finite **mind**, comprehended only by the Infinite One." [More Science]

*"Keely has discovered and was the first to demonstrate that **electricity** has never been handled; that it is not merely a **force** or a form of **energy**, - that it is **matter**; and that what we call **electricity**, and have diverted for commercial use in electric lighting, is but one of the **triune currents**, **harmonic**, **enharmonic**, and **diatonic**, which are united in pure **electricity**; that the **enharmonic current** seems to be sympathetically and mysteriously associated with the **dominant current**; and that the **dominant current** can no more be brought under control than can the **lightning** itself. The diversion of the **dominant current** would mean destruction to any mechanical medium used for that purpose, and **death** to the operator. The intense **heat** evolved by the **electric stream** Keely attributes to the **velocity** of the **triple subdivision** at the **point of***

*dispersion*, as each triple seeks its medium of *affinity*. Sudden union induces the same effect; but demonstration shows that the *concentration* of this triple force is as free of *percussion* as is the breath of an infant against the atmosphere; for the *three currents* flow together as in one stream, in the mildest *sympathetic* way, while their *discharge after concentration* is, in comparison to their *accumulation*, as the tornado's force to the waft of the butterfly's wing. The *enharmonic current* of this *triple stream*, Keely thinks, carries with it the power of *propulsion* that induces *disturbance of negative equilibrium*; which *disturbance* is essential to the co-ordination of its flow, in completing the *triune stream of electricity*. When this fluid is discharged from the clouds, each *triplet* or *third* seeks its *terrestrial concordant*, there to remain until that supreme law which governs *disturbance of equilibrium* again induces *sympathetic concordant concentration*, continuing to pass through its evolutions, positively and negatively, until the solar forces are expended." [Keely's Contributions to Science]



**Figure 9.9 - Wave Disturbance from 0 Center to 0 Center**  
(courtesy [University of Science and Philosophy](#))



## Gustave Le Bon

"All of the foregoing phenomena observed with the **electric fluid** as with the material fluids are the result of the **disturbance of equilibrium** of a fluid which obeys certain **laws** in regaining its **equilibrium**. **Disturbances of equilibrium** producing electric phenomena manifest themselves whenever by any means - **friction**, for instance - a separation is made between the two elements **positive** and **negative**, of which the **electric fluid** is supposed to be formed. The re-establishment of the **equilibrium** is characterized by the recombination of these two elements." [Gustave Le Bon, *The Evolution of Matter*, page 217-218]

## Russell

"To better understand this take the **cobalt** out entirely. Only the **zero of equilibrium** is now there. Now turn on the current and you immediately **divide that equilibrium**, balanced **zero** into **four opposite and equal pairs**, all of which units are in perfect balance with their **mates**. The **cathode** is also in the exact middle instead of being off-center. *That is the way Nature creates atoms.* **Cobalt** is an unbalanced unit of a pair. It cannot be divided into equal pairs when used as a **cathode**." [Atomic Suicide, page 276]

"Every effect in **Nature** is divided into **pairs of opposition**. Each one of each pair is the reverse of the other. Each one is like a mirror reflecting the other. **Nature** is like unto a clock with two hands which bend away from each other in opposite directions but equal **potentials**. If one hand **multiplies potential** the other simultaneously multiplies it equally. **Nature** will not allow her **balance to be disturbed**. Each polarized hand moves away from the other from **zero to four**. Each then **reverses its polarity** from a **charging** body to a **discharging** one. **Generation** also reverses and becomes **radiation**. Heating bodies cool. Living bodies die. Solids become gases and dissolve. Fast motion slows until it ceases." [Atomic Suicide, page 288]

## DISTURBANCE OF EQUILIBRIUM - Snell

*"Disturbance of equilibrium, like gravity, is inherent, an eternal existing force."* It is possible these two phases, **gravity** and **disturbance of equilibrium**, are simply the two opposite poles of **matter**, the physical Universe, the positive and negative poles of **matter**, controlled by the **third** and controlling principle, the **Universal Will**.

*"Unstable equilibrium, like gravity, is a condition born in each neutral center at the time of birth, and thus designed by the Architect as the connective link between the "dispersing positive" and the "attractive negative". The action inducing this "link" I call "sympathetic planetary oscillation"."*

*"The enharmonic portion of the electric current carries the power of propulsion that induces disturbance of negative equilibrium."*

In his experiments of **aqueous disintegration disturbance of equilibrium** was brought about by using mediums of differential **gravity** in the **disintegrator**, air as one, water as the other.

*"Disturbance of equilibrium" (entropy) and "sympathetic equation" (syntropy) are the dual powers by means of which all forms of motion and of terrestrial life are governed. These two dual forces are in turn moved and regulated by electricity and magnetism."* [Disturbance of equilibrium]

*"Disturbance of equilibrium and sympathetic equation constitute the dual power that governs all the varied forms of life and motion which exist terrestrially, of which the electric or magnetic is the prime mover and regulator."* [Keely, Vibratory Physics - The Connecting Link between Mind and Matter]

## Dual Forces - Dual Powers

### Keely

"All Life and all matter is but the motion of pulsing electric thought-waves. There's no substance in the universe. Life, Light, motion, sound and matter are all products of electricity - and electricity is the **dual force** which is generated by desire in the Creator's mind to think. Therefore -&gt; Matter, Life, Light, Sound and Motion are but electric thought-waves which simulate energy, substance, idea and intelligence in a make-believe illusion which motion alone makes possible." [Pulsing Electric Thought-Waves]

*"The electric current is the "first and second order" of the atomic vibration a **dual force** the flow of which is altogether too tenuous to displace any molecules. The highest conditions associated with electricity come under the fourth descending order of sympathetic condensation, in the atomic subdivision, which is altogether too remote to take any direct part in etheric disturbances."* [Snell Manuscript]

"He considered the electric current to be the "first and second order" of atomic vibration, a **dual force** the flow of which is too tenuous to displace molecules. It is as impossible to displace molecules by the flow of electricity as to displace the molecules in a glass plate by a magnet. Electricity and magnetism permeate the molecules as air permeates the meshes of a coarse sieve." [ELECTRICITY - Snell]

"To resonate the infinite variety of mass chords that exist, Keely invented what he terms "compound mechanical devices". These seem to have consisted of strong metal spheres, with or without internal or external accessories, depending fundamentally on the laws of sphere resonance. A sphere of the proper size was caused to act as a "sympathizer" with the "**dual force**" with which Nature works." [MECHANICAL INVENTIONS AND INSTRUMENTS]

"The vapor produced from the Liberator was free of all humidity, of greater tenuity, giving perfect and high lines of action. Its plan was conceived during his desperate struggle to effect a simultaneous action between the molecular and atomic leads, necessary for continuation of energy release and was suggested by the saying "Nature works with **dual force**, but at rest she is a unit." [MECHANICAL INVENTIONS AND INSTRUMENTS]

"Disturbance of equilibrium and sympathetic equation constitute the **dual power** that governs all the varied forms of life and motion which exist terrestrially, of which the electric or magnetic is the prime mover or regulator. " [WHAT IS ELECTRICITY]

*"Disturbance of equilibrium" (unbalance) and "sympathetic equation" (rebalance) are the dual powers by means of which all forms of motion and of terrestrial life are governed. These two **dual forces** are in turn moved and regulated by electricity and magnetism.*" [Keely, see Sympathetic Stream, Law of Assimilation, Rhythmic Balanced Interchange]

*"Disturbance of equilibrium" and "sympathetic equation" are the **dual powers** by means of which all forms of motion and of terrestrial life are governed. These two **dual forces** are in turn moved and regulated by electricity and magnetism.*" [SYMPATHETIC STREAMS - Snell, MAGNETISM AND ELECTRICITY]

*"Disturbance of equilibrium" (entropy) and "sympathetic equation" (syntropy) are the **dual powers** by means of which all forms of motion and of terrestrial life are governed. These two **dual forces** are in turn moved and regulated by electricity and magnetism.*" [Disturbance of equilibrium]

"A dynamo-electric machine is placed at any given spot; its object, being put in action, is to withdraw from the earth its **neutral electricity**, to decompose it into its **two conditions** and to collect, upon **accumulators**, the **electricity** thus separated. As soon as the **accumulators** are charged, the **electricity** is disposable; that is, our lamps can be lighted." [Vibratory Physics - The Connecting Link between Mind and Matter]

*"Disturbance of equilibrium and sympathetic equation constitute the **dual power** that governs all the varied forms of life and motion which exist terrestrially, of which the electric or magnetic is the **prime mover** and regulator."* [Keely, Vibratory Physics - The Connecting Link between Mind and Matter]

"The **negative sympathetic polar stream** is the **magnetic flow** proper, and it is in **sympathetic coincidence** with the **second atomic flow**; the **electric current** is the **first and second order of atomic vibration**, a **dual force**, the flow of which is too tenuous to displace the molecules. It can no more do so than the flow from a magnet can displace the molecules of a glass plate when it is passed under it. The flow from a magnet is too fine to disturb the plate molecules, but passes as freely between them as a current of air would through a coarse sieve." [Vibratory Physics - The Connecting Link between Mind and Matter]

"Science admits that nature works with **dual force**, though at **rest** she is a **unit**. "Nature is one eternal circle". **Keely's discoveries** prove that the doctrine of the

**Trinity** should be set down as an established **canon** of science - the **Trinity of force**. All nature's **sympathetic streams** - cerebellic, gravital, electric and magnetic - are made up of **triple currents**. The ancients understood this dogma in a far deeper sense than modern theology has construed it. The great and universal **Trinity** of **cause, motion** and **matter** - or of **will, thought, and manifestation** - was known to the **Rosicrucians** as **prima materia**. **Paracelsus** states that each of these three is also the "other two; for, as nothing can possibly exist without **cause, matter** and **energy** - that is, **spirit, matter** and **soul** (the ultimate cause of existence being that it exists), we may therefore look upon all forms of **activity** as being the action of the universal or **Divine will** operating upon and through the **ether**, as the skilled artificer uses his tools to accomplish his designs; making the comparison in all reverence." [**True Science**]

## Trinity of Matter and Force

"Keely's discoveries prove that the doctrine of the Trinity should be set down as an established canon of science - the **Trinity of force**. All nature's **sympathetic streams** - cerebellic, gravital, electric and magnetic - are made up of **triple currents**." [More Science]

"The **physical organism** (through the medium of **celestial radiation**) is a **trinity**, both in regard to its **visible** form and the **invisible sympathetic streams** which govern it, in its individual and combined movements. The **visible** includes the **molecular**, the **atomic** and **interatomic** in combination; while the **invisible**, or **spiritual**, includes the **etheric**, **interetheric** and **luminous** in combination, each of which is essential to the proper completion of the combined action, comprising as it does every **minute law** governing the **celestial** and **terrestrial** universe.

"Life begets life; the **celestial** life begets the **terrestrial** life; the **God-life** begets the man-life. **Celestial Radiation** is the pure **soul of all matter**, both earthy and gaseous. Thus we are linked in all our environments to the divine, our **cerebral aggregations** being the highest medium whereby **celestial sympathetic reflection** associates with our organisms, and is our only source of **knowledge** of ourselves. We have, with our mental and physical forces, a **duality** of action which, when combined with the **celestial**, makes up the **triplet** or **trinity**. With the mental, the superficial **visible**, or outward sight; with the inward, or **spiritual invisible**, we have the **spiritual link connecting mind and matter**, the **order of transfer** being:

"First. **Celestial Radiation**, or **etheric**.

"Second. Mental impregnation, or **interatomic**.

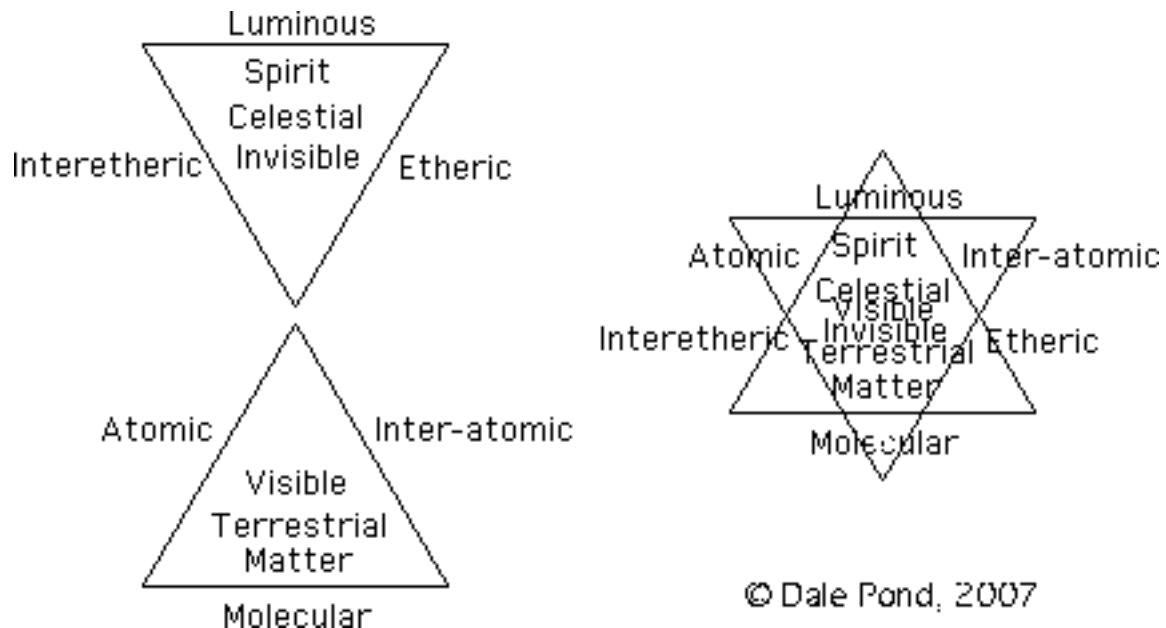
"Third. Physical movements, or **intermolecular**.

"Or again:

"Ninths. **Sympathetic transfer** from the **celestial luminous**.

"Sixths. Sympathetic impregnation of matter.

"Thirds. Physical movements." [Keely, *Newton of the Mind*]



(click to enlarge)

Figure 11.04 - **Celestial** and **Terrestrial** Forces Come Together to Manifest as All That Is

"Anything in Nature, or in your life's problems, which might have one million parts and one million complexities, if taken apart, will be found to constitute one simple principle of three elements.

"God multiplies these three by three to make nine, but never more than that. So if you can understand the principle of the basic **three**, you can become the greatest chemist, metallurgist, electrical engineer, poet, painter, philosopher or inventor in the whole world." [Walter & Lao Russell, *Home Study Course*, Lesson 9]

## Addendum

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### CHAPTER XI

#### The Bridge Between Man and God

##### I

*"The last enemy that shall be destroyed is death."*

1st. Corinthians, 15-26

The first and last great mystery of **Creation** is its **Creator**. Second to that mystery is the eternally asked question: "From where did we come to live and where do we go when we die?" This very simple question is quite easily answerable to the spiritually unfolded one who knows that which he cannot see. It has always been unanswerable to sense-dominated man to whom the invisible universe - where **God** dwells and rules, has no meaning, for he has no knowing beyond his sensing.

There is a very definite **bridge** between God and man. It is invisible in the **vacuum** of the **zero stillness** of God's **kingdom**, but it has a visible link at every point where that **bridge** touches the shores of the action-universe of **motion**. That is something which every man can understand, for he can hold the symbol of that great REALITY in his hand in the form of a simple **seed**. *He has never known, however, that in the imperishable seed within that perishable acorn, which he holds in his hand, is the whole answer to where the oak tree comes from to live, and where it goes when it dies.* That is something which the physicist can more readily understand when you tell him that the imperishable, invisible seed within that acorn is an **inert gas**, or a combination of several octaves of **inert gases**.

We again refer you back to **Fig. 5**. You will note that an **inert gas**, marked zero, begins and ends each **octave**. The nine inert



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gases are the shores of the visible universe, where the invisible **bridges**, which link **Mind** and **motion**, touch the moving-action universe. There are nine of them because the **bridge** has nine parts, which we might call entrances to mortality and exits to immortality.

Man has always thought of his periodic entrance into mortality as an entrance of his Person - his being - his individuality, into life. And he has always thought of his body exit into his eternally living **Self**, as **death**. That is the thought which has always been man's great enemy. That thought of death shall be destroyed by knowing that there is no death in Nature to destroy. There is naught but eternal life in all this universe. *There is naught but **Mind at rest**, and **Mind-thinking in motion**, in all **Creation**.* Such a concept must gradually change as unfolding intelligence in man gives him higher knowledge of **REALITY** rather than its loyally believed in *simulation*, which **motion** produces.

Eternal Identity is never created. The **IDEA**, which man is, is never created. It always retains its **dimensionless zero** in the **cathode** of itself. That body, which man thinks of as man, is a moving light-image which is projected from the dimensionless point of man's eternal **Self**. The projected light is mirage. It is a series of repetitions and reflections projected through invisible **cube wave-field mirrors**. It has no more reality than cinema bodies have. It has no more knowledge or intelligence than they have. These bodies cannot even move of themselves just as cinema bodies cannot move of themselves. Some day every man must realize that he is MIND ONLY. What he now thinks of as himself is but Mind-thoughts electrically projected in two seemingly opposite directions in order to provide pressure mirrors of invisible light to act as screens for his light projections. He must learn that his body is but a formed, moving image of his **Mind-imaginings**. Also, *he must learn that there is no death in God's universe, there is naught but perpetual rebirth into an endless repetition of rebirths.* Every opposite of every pair is born, and becomes its opposite sequentially. God's words, as given in His **Message of The Divine Iliad**, expresses this

thought in these words:

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*"Know thou then that I alone live. I do not die, but out of Me comes both seeming life and death.*

*"Life is but the inward flow of My thinking's divided pulsing, and death is its outward flow.*

*"Know thou also that the divisions of My thinking are but equal halves of One; for I again say that I am One; and that all things which come from Me are One, divided to appear as two."*

It would be well to simplify our thinking as to what **Creation** really is by putting it into simple words. **Creation** consists of the invisible universe of **Mind**, which **Jesus** called **heaven** and man calls **space**, and the visible **universe of motion**, which man calls **matter** and **substance**. There is a vast difference, however, in the meaning of the omnipresent **heaven**, which **Jesus** referred to as being "within" man and within all things, and the meaning of heaven which man holds as being a place up above and apart from the earth. For ages man has thought of heaven as a place above the earth where dead bodies and souls ascend. Literature and art are replete with symbolism which very vividly pictures that primitive concept. If we but enlarge our concept of the meaning of the word heaven to be that **zero omnipresent vacuum** which is everywhere within and without all things, as symbolized in **Fig. 6**, then the ages-long idea that we go to heaven when we die is literally true. The difficult thing for man to imagine, however, is the fact that he returns to "heaven" non-dimensionally, just as the dimensioned oak withdraws its huge dimensions into ultra-microscopic nothingness. That is man's difficulty. *If he would but realize that his body is but the projected image of an Idea, and that Idea has no measure, it would help him.*

We must bear in **Mind** that the primitive pagan idea was that the earth was all of **Creation**. Man then thought of **heaven** as surrounding the

earth. Heaven even had a limitation with holes punched in its boundaries for stars. Pagan man had no conception of limitless space and billions of suns and earths. He thought locally. Even his **God** was for this earth alone, and even for certain races alone. The Greek gods were man-formed and had human emotions and desires. That pagan, man-formed God still

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persists, a God made in the image of man, a God with arms and legs for which He has no use in a limitless **zero** expanse, a God who could be angry and wrathful with humans, who could not possibly be omnipresent because of his objective limits. The time must come when man stops praying to a God "up there in heaven" outside of himself, and talk to God within himself. *The day of the brotherhood of man, with peace on earth and ecstasy in the heart of man, will never come until man awakens to an awareness of his own divinity, and finds God in the **Light of Mind**, which he, himself, is.* May that day be soon for the many who are ready, and may they hasten the day for the still pagan-minded by awakening the Light within them.

We must become more familiar with the office, purpose and construction of the **inert gases** in order to have a more definite knowledge as to our own immortal identity in that omnipresent heaven. To acquire that knowledge and comprehension the very first step toward it is full comprehension of the **invisible bridge between heaven and earth**, and the visible entrances and exits to it through the nine inert gases. Full comprehension of the interrelation of figures **6** and **7** is a necessary prerequisite to comprehension of further stages of God's ways and processes in this respect. Next in import is to become thoroughly familiar with the nine stringed instrument upon which the symphony of Creation is perpetually being played. **Fig. 5** has been prepared for just that purpose. At the beginning and end of each string is an **inert gas**.

Each **inert gas** is constructed by **four rings** in one plane, centered by a hole which is the invisible **Mind-Source** of those **four rings**. At the very

center of that hole is a **point of stillness**, within which is lodged all of the life, energy, knowledge, idea, and the other qualities which are a part of the God-Nature in non-dimensional qualities. Every point in all the universe is like that point, but we are concerned with but one of them now, for that is the point where the oak tree draws its power to express the oak tree idea in form - or which any other unit of Creation has chosen to draw its identity and power.

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*That omnipresent point from which you have issued your body, is the same point at which the visible, mortal you becomes invisible and again assumes immortality. That one point in all this universe, controls your every movement from your first one many millions of years ago, to the last one which consummates the idea of man as expressed by you. That one point is your **Soul** of the universal Soul. It is your **Mind** of the **Universal Mind**, as one **unit of Creation**. You are ONE with that Mind - in fact you *are* that Mind. *Your body is the **thinking** and imagining of that Mind.* The eternal YOU is that center, and your eternal BODY is that series of **four rings** of fluorescent light which is eternally wrapped around that centering Soul of the eternal YOU. Those **four rings** are eternal records of you. They are as immortal as you are immortal. They are the micro-film of you *yourself*.*

Do you begin to grasp the stupendous significance of that idea? If you do grasp it you have become aware that neither YOU nor YOUR BODY can die, for that eternal micro-film of you will forever be projected into three dimensional enlargement after every **rest** period between **action** and **action**. *If you really do comprehend it you now know that your Mind cannot die, for your Mind is ONE with **God's Mind**, and that cannot die.* Likewise, your body cannot die for it is **Mind-thinking** and the record of **Mind-thinking** is enfolded forever within its Soul-seed and recorded upon those **four rings** which surround it exactly as a Beethoven symphony is recorded upon the rings of a phonograph disc.

YOU are eternal, but your body is eternally repetitive. Your Mind never

sleeps, for it is changeless, but your **Mind-thinking** rests from **Mind-thinking** in cyclic intervals between its pulsations. Your body thus sleeps every night and becomes unaware of body-existence. It must do so for it needs replacement and repair. You are quite familiar with that effect. It is quite understandable to you because of its oft repeated occurrence.

For the very simple reason of your newness of unfolding intelligence as man, you have not yet grasped the idea that the

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end of a body cycle, where the body has completely worn out, or where its growth has been short-circuited by a disease, or bullet, or from falling over a cliff, is just another interval of sleep and body-replacement by light-projection from its seed-records. *That fact you do not yet understand, but you will if you meditate upon it sufficiently to let the knowledge we are giving you sink deeply into your centering **Consciousness** instead of holding it superficially in your senses.* When you do fully understand this fact you will then know that what you have made yourself to be is what you, yourself, have electrically recorded upon those **four rings** which surround your Soul-Identity. Whatever is recorded on those rings is perpetually being re-enacted by you every second of the day. If you look into the mirror you will see what kind of person you have made yourself become today because of your **thinking** and your acting a million years ago. You are the kind of person you have desired to be. *You are the sum-total of your own desires.*

Now look at some person who is an infinitely greater Soul than you. What is the difference between each of you? *It is a difference in **desire** only.* If a greater one than you inspires you to be like him, and you desire to be like him, you can be by recording that desire upon your **Soul-record** as a mental Image, and that Image of your Mind-desire will be projected back to you and make you like unto it.

Let us again look into this new deep well of Mind-thinking and consider that you are ill of body because you have made it so by desiring to make

it so. If you will but realize that you are recording the pattern of defective thinking upon your [Soul-record](#) as well as right thinking, and desire instead that the normal recordings of long ages of building a normal body will regive you a normal body NOW if you will but let it. Your illness will be voided and replaced with the normalcy of the light-image of your ages-long building of your identity. If you will but look again at [Fig. 6](#) and realize that the omnipresent, omniscient, omnipotent [Mind of the invisible God Light](#), therein symbolized, has absolute rule over the projected light of His thinking, as symbolized in [Fig. 7](#), you will more readily compre-

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hend how it is that the invisible omnipotent, omniscient YOU can, and do, project balanced, or unbalanced conditions to your body from your Self to *create yourself in your own Image*.

All things created by God are created in His own Image, therefore, God's creations are balanced. As you slowly arrive to the point where you know and feel God's Presence within you, your creations will have in them the balance and masterliness of God's Creations in the measure of that awareness.

What is true of you is true of a whole civilization. Man-in-the-mass is not yet aware of the Presence of God within him, and that is why this civilization is being built in man's image - not God's. This idea is clearly expressed in [The Message of The Divine Iliad](#) in the following words:

*"For I say that man who senses but clay of each in him is bound to earth as clayed image of earth.*

*"Clayed images of My imagining who know not Me in them are but dwellers of earth's dark. To sensed man the doors of My Kingdom are self-barred by [darkness](#) until the Light of Me in him is known by him as Me.*

*"Until then he is but moving clay, manifesting not Me in him while sensing naught but moving clay of him; knowing not the glory of My Light in him.*

*"Wherefore, I say to thee, exalt thou thyself beyond thy sensing, Know Me as **fulcrum** of thy thinking. Be Me as deep well of thy knowing."*

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## II

To enable you to more fully grasp the profundity of this idea we shall give you simple and familiar examples which relate to it. Perhaps the simplest of these is to recall something you must have often wondered about. Let us return to the example of the **seed** which you hold in your hand - and meditate upon it. You have realized that the ultra-microscopic seed enfolded within its surrounding placenta contains within it the image of every branch, leaf and fibre of what will be a fifty ton tree a hundred feet high. You have recalled to yourself that no two leaves - or

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two millimeters of that tree - are alike. You have undoubtedly recalled a hundred wonders of that tree and asked yourself how it is possible for all of that great tree to be enfolded within a microscopic point. *What you have never realized in this respect, is that you are endeavoring to translate the unfamiliar **zero universe of Mind-Idea**, which has no **dimension**, into the universe of dimension which you are familiar with.* That is a very difficult thing for you to do at this present stage of Mind-unfolding in the human race. A close approach to it in human technique with light and photography, might help you to grasp it. We will try a familiar one.

If, for example, you see a twenty foot high picture in the cinema, you know that it is a light-projection from a miniature image. You can see the big picture with ease, but if you look for a face upon the miniature,

which you can see with great detail upon the screen, you will not be able to more than locate its position upon the film-image. Let us carry this one step farther. Human ingenuity has devised a technique whereby microfilms can be made. Now if you look at it you will not be able to locate the position of a whole man, much less his face, yet it can be multiplied into distinct visibility from that invisible point, just as the invisible oak can, likewise, be multiplied into distinct visibility. So, also, can ear-splitting deafening sound become silent and locked up as silence in a box, awaiting your Mind-command to again project it into loud sound.

Let us take another step. **Light** is limitless but human technique and material is not. Let us assume, however, that it is possible to project a picture one hundred feet high from that micro-film. If you carry this thought into deep meditation you will understand how dimension itself folds up to **zero** in the seed-record of your **Self** as it almost folds up to zero on the micro-film. If we now return to the one hundred foot high, fifty ton oak you can more readily comprehend that dimensioned, complex patterned-bodies can unfold in great variety of detailed effect from a Mind-concept of non-dimension, but, likewise, they can refold into non-dimension.

By taking another step we can, perhaps, help you to compre-

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hend this idea more clearly. In your imagination look carefully upon the large cinema picture and realize that there is one prime essential to its understanding that is not photographed there. That one essential is the **IDEA** of the picture. The IDEA is not photographed. *It is not there at all.* You cannot see it, no matter how carefully you look - yet you KNOW it as well as though you *could* see it. Idea is never created. Its *body* is alone created. **Idea** has no **dimension**. *It is only the projected image of Idea, which has dimension. Idea is never created. It is but simulated.*



If you have followed these steps with even partial understanding you will comprehend the description we have given you of the [bridge between man and God](#) which the [inert gases](#) provide, and the further description we will now add to it.

To help you with this further understanding turn back to [Fig. 41](#) which diagrams one [inert gas](#) unit many millions of times magnified. The central portion of that diagram represents the [Mind within motion](#). It is absolutely still at its center, which is the [kingdom of heaven](#) within every creating thing, which [Jesus](#) tried to tell man about. That is God's universe, but it is also man's when he becomes aware of it. *Until man does thus become aware of it he is but a mortal body*. Unknown to him, however, for the long ages of his unawareness, something within that invisibility, which centers the [rings](#), is eternally reaching out to him (and to all creating things) , which he at first feels as instinct. That is man's first [bridge](#) to God. See [Fig. 48](#) and read the words printed within the zero area.

Long, long ages pass before that [bridge](#), which reaches out to him from its dark, becomes illumined with its own [Magnetic Light of Mind-knowing](#), which then comes to him as [inspiration](#). Even then man may still not know that [God](#) is actually talking to him in God's [language of Light](#). That spark of awakened Light in him may burn in him as genius-man for many lives before he finally becomes fully aware of his [Oneness](#) with that Light. *Then there comes to genius-man that great blinding flash of [Magnetic Light](#), which engulfs him and takes him across that [bridge](#) from his world of motion unto its very [stillness](#)*. Then he really does

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hear God's Voice saying: "See me - Be Me - Be thou [fulcrum](#) of thine own power." [Genius-man](#) has then fully crossed the [bridge](#) from [motion](#) into that [stillness](#) of the One which opens the door to the eternal omnipotent and omniscient [Light of Mind](#). Then, and not until then, can man say: "I and my Father are ONE" - and know its meaning. That is

what **Christ Consciousness** means. It is the final goal of all men. This man cannot yet comprehend, for the human race is still in its spiritual infancy and the journey of life is long. (The five stages in the unfolding of man's long journey from primate man to **Christ Consciousness** has, perhaps, never been more fully explained than in "**GOD WILL WORK WITH YOU BUT NOT FOR YOU.**")

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### III

Human pens can but write words. They cannot write their **knowing** into those words for others who have not that **knowing**. A symphony can be as well heard by moron and animal as by the **genius**, but the **Soul** of the composer is not heard by one and is movingly heard by the other. To some of you these words, which we have just written, are but words - and will be for thousands of years hence - but not to all of you. There are some who will understand and be greatly moved. To all of you, however, we may begin your comprehension by opening the doors to the invisible unknown just a little bit farther by more fully explaining the office and purpose of the **inert gases**.

It will help you much in this respect if you will but use your **imagination** in relation to an effect in Nature with which very few are familiar, the effect of ultra microscopic smallness. Man-in-the-mass thinks in terms of bigness of dimension. His senses are geared to dimension. He sees thousands of objects for miles about him and for millions of miles out into space. His senses are geared to motion, also, and the many lights and sounds which are one with motion. His senses are, likewise, geared to extension. They see only the unfolding extensions which are projected from the seed. He does not even realize that what he views in big scale out there is enfolded within him so near to zero scale in motion and pattern that all of it occupies only a

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microcosmic-scale image in one's eye. Is this clear to you? Do you

realize that the bigness out there is identical with the smallness within your eye? *If so, can you not begin to accustom your thinking to the fact that the entire **cone** of the visible universe is enfolded within, and extended from its apex by the mere spiritual mechanics of creative imagining?*

As your power of **thinking** grows to this **magnitude** you will then soon be ready to ask of yourself the following question: *If objectivity and dimension are but imaginings, what then shall we say about the motion which created them?* If you fully comprehend these facts you can, also, fully comprehend that the bigness out there is an extended radial enlargement of the zero smallness within you. If you will but add to this thought the fact that the small image is a recording of the other, you are coming closer to a comprehension of that great secret of Nature. Now we ask that you add one more thought to this picture. Add to it the fact that the large and small image are not two. They are one. The same light which created one created the other, and the rays of that projected light connect the two as substantially as light-waves connect the sounds of a man's voice to the tape which is recording it. In other words, whatever is seemingly happening anywhere "out there" in extended space is being simultaneously recorded within the **zero universe** upon the **four rings of the inert gas** series, which **bridge God's knowing** to His **thinking**.

Now add to this thought the fact that every **thought** and **action** taking place in the extended universe of **motion** is simultaneously taking place everywhere in it. If that is so - and your radio and television have long told you it is so - can you ever again think of the universe as any more than ONE? If you have now arrived at this stage of comprehension in your knowing you can complete your knowledge of the Cosmos by including in it the **One Source** of that extended image you now know **God**, and man, and all things else, as ONE.

*That which is transient in **motion** is eternal in the translucent **Light** of the **inert gases** which divides the **Magnetic Light of Mind** to produce **pairs of electric bodies**. These **inert gases***

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record all effects of creative thinking upon their **four rings** as precisely as the rings of a phonograph disc records extended effects. If you fully understand this you can now comprehend that as the oak unfolds from its zero seed to extend into space, the oak tree patterns of old and new growth simultaneously refold into its seed. Every leaf and branch are as perfect in the invisible oak as they are in the visible one. The marvelous thought about this is the fact that the extended one can perish, but the **seed-record** is imperishable. Nothing can hurt or affect that seed even though its planet may perish along with its extended "mortal" image. In other words, God's thoughts are not transient. They are immortal image-forms of immortal Idea. They repeat themselves in Nature eternally, for that is what Nature is. Nature is a light-extension of the **Light of Mind-Idea**.

The next step for you to take in greater preparation for your Cosmic knowing is to translate the effect of the oak tree body to the body of man. The projected image of a baby begins by the unfolding of the eternal record of itself, which eternally exists in **God's Mind-universe**. All of the thousands of detailed forms of cells and body parts are but repeated extensions of eternally existent thought-conceptions. *If you will but realize their oneness in the light which they are, you understand that the body of man is but a projected thought-image in motion of an eternal thought-image in **God's Mind**.* That being so, can you not now fully comprehend that man cannot die? The light which images him may be shut off from its projected Source for a time, but it will again be projected from its eternal Source until its purpose for seeming existence has been fulfilled. *That is what is meant by the verse from 1st. Corinthians which headed this part of our narrative.*

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#### IV

At this point it will be helpful if we enlarge upon the idea above stated in regard to temporarily shutting the **light of Mind** from the projected

image of **Mind-imagining**. We mean by this exactly what you mean by saying: "John Smith was killed by a bullet."

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When the light is shut off in the cinema the projected picture ceases, but the **REALITY** of that picture still exists as **IDEA**, and can be repeated. The entirety of this objective **universe of moving bodies** is precisely alike in principle to the cinema. It is a series of electrically projected pulsings of changing thought-patterns with black **rest** gaps between every change of thought-pattern. The pulsings are so fast that ever changing patterns create the **illusion of motion** and all of its kindred effects. The projected pulsings are transient effects, which ever change. *The Source of those pulsings is eternal, and never changes.*

There is no motion in the Cosmic cinema. All of it is a radial projection from a **zero fulcrum of stillness**. It is the **apex** of an unborn **cone**. A radial projection from **zero** creates the illusion of a three-dimensional universe. *Its sequences of pulsings create the illusion of time. Your body is a Mind-projection of your Self.* We are thoughts of **Mind** being made in the image of our imaginings. The multiplicity of **mathematics**, as well as the **density** of **concentrative thinking**, are expressed, in infinite variety and complexity "out there" on the other ends of light rays, but they are **zero** at their **Source** within them. That brings us back to John Smith whom you say, was killed by a bullet. It is true that a whole system of the growth of thought-patterns, which constituted the projected image of John Smith, was interrupted, but it is not true to say that he was killed, for John Smith was not "out there" where he could be killed. John Smith is a Mind-Identity. He is not one thought of **The Cosmic Thinker**, but is also ONE with THE ONE THINKER. Never forget that. John Smith and the Creator of this universe are ONE. That ONE cannot be killed.

Let us parallel this thought with other words. Instead of John Smith being killed by a bullet, let us say he was electrocuted. That means that his light was shut off by sending a current through his projecting wires, which was too great for them to carry. If we now substitute a body of

tungsten for the body of John Smith, and electrocute the tungsten, it also would be short circuited, or "killed," if you prefer to use that word. As we described in previous pages, a tungsten wire thus electrocuted in

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a vacuum tube leaves a residue of the inert gas helium. That helium is the Soul-seed of the tungsten body. It is the Soul-record of that body which is its identity in a unitary universe. It is the zero of tungsten's multiplicity. That cannot be killed, nor can it be prevented from reincarnating its image within it. *This is a universe of eternal repetition of pulsing thoughts which are ever being repeated.* In the Cosmic sense reincarnation and repetition mean the same thing, for Nature is eternal, it is endless and beginningless. The idea of death - or of identity - or of being killed - is a conclusion of the senses of bodies. Such a thought is impossible for the knowing Mind of the Cosmic mystic.

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## V

It is necessary to know why tungsten becomes helium. There are nine inert Soul-recording gases, why helium? The inert gas for the tungsten octave is xenon. Why should tungsten not refold into xenon? The answer is that it does refold into xenon, but all of the inert gases are within each other and helium is the balancing inert gas of the nine. Xenon expands into krypton. Krypton expands into argon, then into neon until it finds balance in carbon. This opens new worlds for further explanation for which we have not pages enough here. We can exemplify, however, by having you open the damper pedal of your piano and strike any one note hard. If you do this you will also hear every other octave note, above and below it, sounding in their own frequencies. One of these notes will dominate over all of the others, however, and that is the mid-tone of all the octaves. That mid-tone is the crest of the universal wave. All effects of Nature reach a wave-crest. They must, or perish, as the 9th octave perishes through inability to create a wave-crest by the uniting of balanced pairs.

Carbon is the **mid-tone** of all the elemental octaves. The **radar** principle of Nature is also another world for which we do not have pages for, but carbon is the **radial cube** of the **zero universe** and the **radar** principle in projected effect is cube-dominated. To fully comprehend **radar** one must fully comprehend the meaning and purpose of **Light of Mind** and **pairs of lights** of

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body, and how the latter act as **mirrors and lenses** in the light-pressures which constitute this light-wave universe. After all, a Cosmic cinema must have its projecting machine just as man's projector must have its mirrors and lenses. As a fact of Nature, the **cube of nine light planes of zero curvature** is the Cosmic projector, and the **equipotential curved light-pressures**, which are the product of that projection, are its lenses which divide and multiply projected effect. Out of this simple Cosmic process the curved universe of motion appears from within its **cube planes of zero curvature** and the **0-1-2-3-4-0-4-3-2-1-0 light-wave universe** of seeming motion appears to deceive the senses of the human race of such an early stage of unfolding Intelligence as ours, into believing that the projected mirage-image is the real body, which thinks and knows, and lives and dies. Early man never gave a thought to the fact that his body is but an actor in the Cosmic drama of Cause and Effect created by **Mind-desire** to simulate the **Love-Idea** of balanced **equilibrium** by simulating that idea in moving imaged-forms by **light-wave** projections.

It is regrettable that we cannot help to further clarify this thought by giving the several chapters which would be necessary for explaining the **light-wave** which constitutes this entire universe, and **radar**, which repeats its seeming divisions. This was intended to be a small book, limited to one purpose. It could very easily become a massive one, by exceeding its purpose. We feel, however, that one paragraph can be spared to explain why it is that science is confused about **light expressing itself as both wave and corpuscle**.

*The basis of that explanation rests upon the fact that the **wave** belongs in its entirety to the **zero of gravity**, while **corpuscles of matter** belong to **electric motion**. Every **octave wave** is a **gravity shaft** around which **corpuscular matter** spins.*

IDEA IS ONE, but must be made two to produce **motion** by interchange between the two. If you will bear in Mind that such divisions merely simulate Idea, and that Idea is never created, you will more fully comprehend why John Smith could not be killed. John Smith the immortal was never created. John Smith, the eternal Idea, is divine. John Smith, the moving image, is

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but a *simulation*. That brings us back to two statements made heretofore which can be more clarified right here by adding the above stated thought to them. We stated farther back, that a certain point in the **zero universe** became your **controlling center**, or the **Source of your Identity**. The **zero universe** is not divisible, however. **Mind-thinking** at any one **cathode point** in it is **universally repeated in every other point** in it. In other words, your identity in the **Mind-universe** is God's Identity. Your identity is universally enfolded within all other identities. You are one created unit **thought-body** of the universal Idea of man. *You are not one, you are all men - billions of them. You exist in them and they in you. Whatever you think you do individually you are doing universally. Your thoughts are every man's thoughts and theirs are yours. Every happening anywhere by any man or other body in Nature, **simultaneously happens everywhere** throughout the universe, but each happening in any body informs all other bodies of its new condition of effect at a light speed of 186,400 miles per second.*

We have also said that there is no **death** in Nature. These two statements lead to much confusion to those who are not yet permitted to know that which they cannot see. One of the thoughts which thus confuses is the thought which is expressed by many who are grieved at the loss of loved



ones. These continually ask why - if there is no death - they cannot communicate with their loved ones. This would be quite self-explanatory if one would but think things through by assembling the above stated facts as a foundation to reason from. Let us do this together.

We will draw a simple, and familiar picture. You are sitting by the bedside of your husband. He is sound asleep. He has not the slightest awareness of bodily existence. You do not expect him to exchange thoughts with you, or to accompany you to town, or to inform you of anything. Your companionship with him has as surely ceased as though he was in his casket, so far as his body is concerned. It would never occur to you to employ a [medium](#) to see if she could communicate with your temporarily dead-to-the-world husband's body, as many do whose loved ones bodies are in a similar, but permanent condition. Those who do this

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do so because they feel that their companionship with their loved ones has ended. As you sit there, however, are you not aware of a companionship of the eternal Thomas who cannot die? Everything of a Mind-nature which has come from him to you, you still have. They are a part of your identity. The memories of them which have helped you to become you are still companion to you. You see and hear his thoughts in his works around you, the house he built with you, the children he borned with you. What is the difference between that sleeping body and a dead one? *The only difference is that the dead body of Thomas cannot awaken, but Thomas, the immortal, is still living and becoming a part of you, and of all men every moment of all future ages.*

If you do not grasp this ask yourself if your own life is not being enriched by Beethoven, Wagner, Shakespeare, Walt Whitman and the Emerson you so deeply love the companionship of. Would you be the same woman without them? If so are they not a part of your identity? Again, if so can you say they are *dead* when you can have their companionship whenever you wish? Who can you say is dead, whose

body once walked the earth to be an actor in the play of Love, which The Master Playwright is throwing upon the screen of imaginings to simulate His One Idea, and to help lay a stone in the structure of civilization as one coral marine animal leaves its calcareous skeleton with other calcareous skeletons to build an island in the sea?

Can you say that Lao Tzu, or Shakespeare, Socrates, Homer, [Newton](#) and [Luther](#) are dead when they are continuing to make scholars and cultural citizens each moment of each day? Can you rightly say that [Jesus](#) died on the [cross](#) and will come again, when He is already here transforming your life and ours, and countless others by His teachings, which you can hear and read as effectually as though He spoke them to you from the voice of His body?

Who are you, therefore? Are you not all that has ever been? And will there ever come a moment in all future ages in which you are not eternally living among eternally living mankind to make it a part of you? If you thus reason can you not see the

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great confusion which exists in man's minds, or *senses* rather, because of mistaking [immortality](#) for mortality? Can you not see, and comprehend, that material bodies and material values go hand in hand with early man, but as his [spiritual](#) nature unfolds from body-sensing to Mind-knowing of God-awareness in him, man gradually exchanges material values for Intellectual ones? Can you not plainly see that man is not in an intellectually advanced age as yet, despite the seeming wonders of his material progress, but, on the contrary, he is still in the Barbarian Age of man-killing? *He has not yet discovered his [unity](#) with man and God, for when man really knows his unity with all men he cannot possibly kill.* Our present civilization has been built on [piracy](#). That which one nation has taken from other nations for their enrichment has impoverished them instead. *No man will kill another when he knows that he is killing himself.*

Is it not clear to you that man has not even known the meaning of **love** as yet, for love means the action-reaction of equal **giving and regiving**? These work simultaneously under the law, but when man *takes*, instead of *giving*, the simultaneity of *taking* in action-reaction acts in reversal of the **law of love**. Can you not, also, plainly see that the Mind-universe is still but *words* to our civilization as a whole, when only a small percentage is on the edge of its meaning? The world intelligentsia very commonly refers to the electrical awareness of the senses as "the **conscious** Mind," and to the **God-Mind** as "the **subconscious** Mind." Many of our great intellectuals still believe the *brain* to be the *Mind*, instead of being but a receiver, recorder and transmitter of **states of motion**. These also believe that each individual has his own **individual Mind**, which dies when he dies. Many of these actually believe that Mind evolved from matter.

How wonderful it is, therefore, to see that science is at long last, beginning to not only discover the existence of a **zero universe**, but has become aware of its mathematical necessity. The recent discoveries of the **anti-proton** and other **anti-matter** particles, is the first glimpse that science has ever had within God's **zero universe**. For many years the necessity for a **zero** in a quantitative universe has been considered as necessary as a **fulcrum** of

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non-motion has been necessary for the expression of motion. The **apex** of the **universal cone** is as far as one can go in that direction, but whatever of infinite **extension** there is in this universe is in the direction of its base.

The **anti-matter** discovery of the last two years will become a great branch of science as soon as the offices and purposes of the inert gases are really known, for they are the key which unlocks the long closed doors to God's **zero universe** of **Mind-Light**. It is not proper, however, to use the term **anti-proton**, in reference to the **Soul-seed** of any condition of motion. It would be just as inappropriate as the use of the term anti-

man in referring to his **Soul-seed**. What science is really discovering is the reality of the **non-dimensional cathode** from which the **electric divisions** are extended into dimensioned and conditioned **anodes**. *It is, at long last, realizing that the action universe of motion must have a **fulcrum** which does not move. This will lead to the placing of energy in the fulcrum Source of this universal **mirage** of motion instead of in the mirage-extension where Science now places it. When that day comes, science will first question the **universal vacuum** for **CAUSE** rather than search within effect for cause. When this transformation takes place in man's thinking science will have leaped ahead one thousand years in that day.*

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## VI

We again say these words were not written as a text book for the unfolding of new worlds of knowledge which lie ahead, unless such knowledge is distinctly relative to the one purpose for which it is written. We feel, however, that a few paragraphs of explanation might help open the doors to new light for the researchers who are now finding a "somethingness" in that supposedly "nothingness" from which "matter emerges only to be swallowed up by it."

What researchers are now discovering is that there are two ends of the creating units of matter. One end is the **zero fulcrum** end which projects dimensionless Mind-imagined patterns in **pairs of bodies**, and the other end is the enlarged pattern in motion. Their relation to each other is in the shape of a **cone**.

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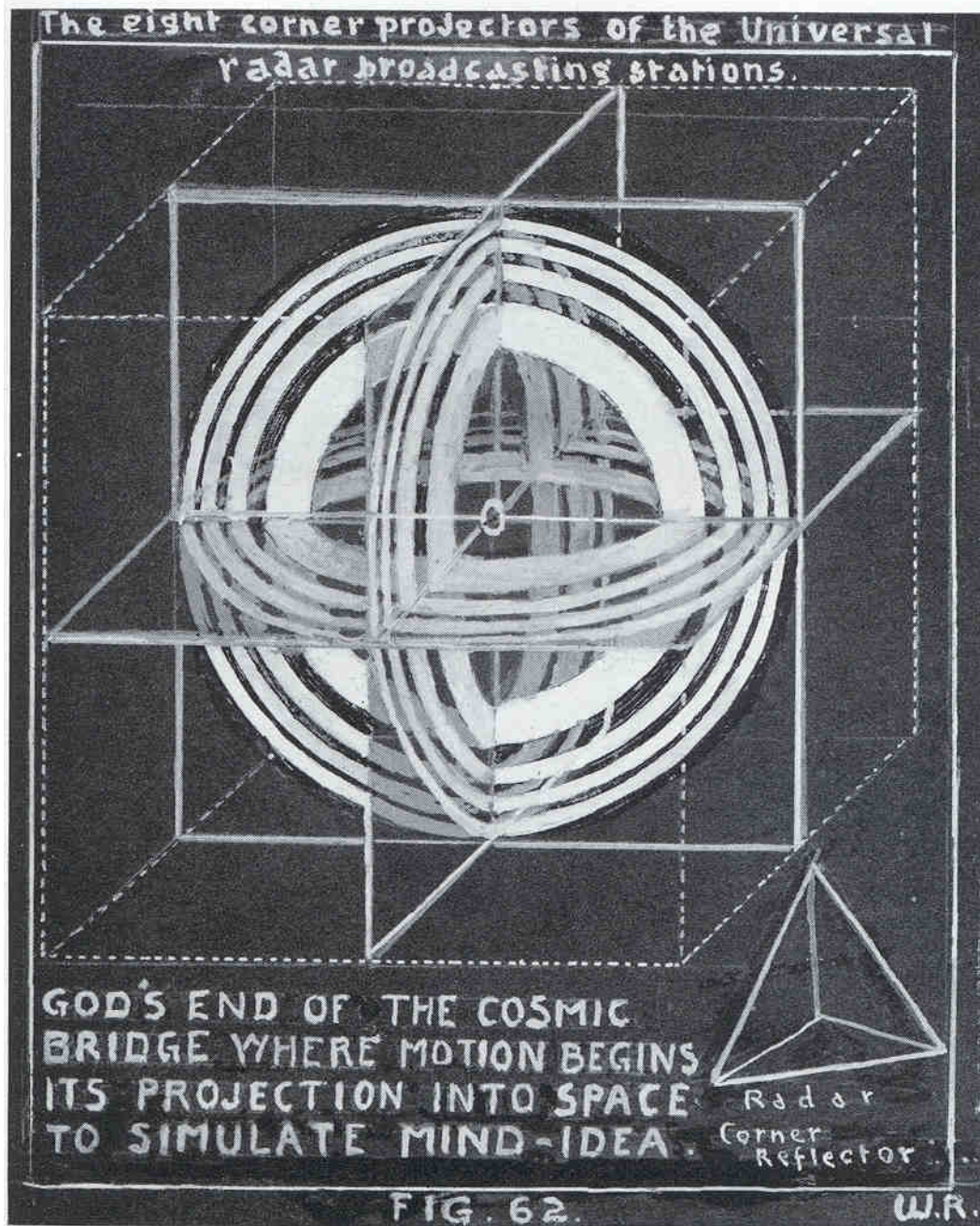
The "**anti-matter**" end is the **apex**, and the projected "**pro-matter**" end is the base of the **cone**. To restate it in electrical terms, the **apex** end is the **cathode** and the base end is the **anode** pair. As the anode pair always move as separate units of a pair, until they become united as one, so, likewise, do their apice projecting fulcrums seem to move to control

their balance in **space**. Naturally the **zero universe** is motionless, and no movement takes place at the **zero fulcrum**, for movement does not begin until **division of electric thinking** projects a two-way **wave-lever** from the **fulcrum** to manifest its energy and its **Idea**. It is the **wave-lever** which moves, however, and not the **fulcrum**, and when balance moves in two directions it is always centered by one, no matter how it moves. See figures 17 to 29. This is too long a story to amplify here, but it is sufficiently relevant to our purpose to print seven diagrams here which will begin the clarification of the method the **Creator** uses in thus projecting His imaginings into the forms of His imagining upon the three-dimensional screen of space, which seems so real to us. The day will come in man's unfolding **Intelligence** and **innersensory perception** when he can clearly see that there is no real material universe, nor is there **dimension**. There is an **illusion**, however, which stands for the reality of the substance it simulates, and that **simulation** is interpreted by our senses as **motion**. When man can comprehend that he will then know that what he thinks of as motion is, in itself, but simulation, for motion, likewise, is but illusion.

The seven diagrams will also help give more meaning to the new idea of **anti-matter**, which has just entered the scientific world, as well as to open the door to the coming of the new science of **Space Geometry**.

In **Fig. 62** you will note a centering point marked zero. That is the beginning point in the Mind-universe which marks the eternal **Identity** of one unit of a multiple repeated Idea. Your **Identity** begins and ends there. Likewise, the **Identity** of every creating thing in the universe begins and ends there. It emerges from that point millions of times, and returns to it millions of times complexed by union with other **Identities**, which become a part of its purpose. That **zero point** is the **Soul-seed** of the oak,

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Matter begins by division of stillness in the inert gases and its projection by two-way motion into pairs of octave wave tones, which we call elements. The principle of projection is the same that man uses in projecting the concept of his idea into the moving form of the idea. It is the dual radar principle of Nature. Reduced to its ultimate simplicity, Nature is a series of echoes.

[\(click to enlarge\)](#)

The eight corner projectors of the Universal radar broadcasting stations.

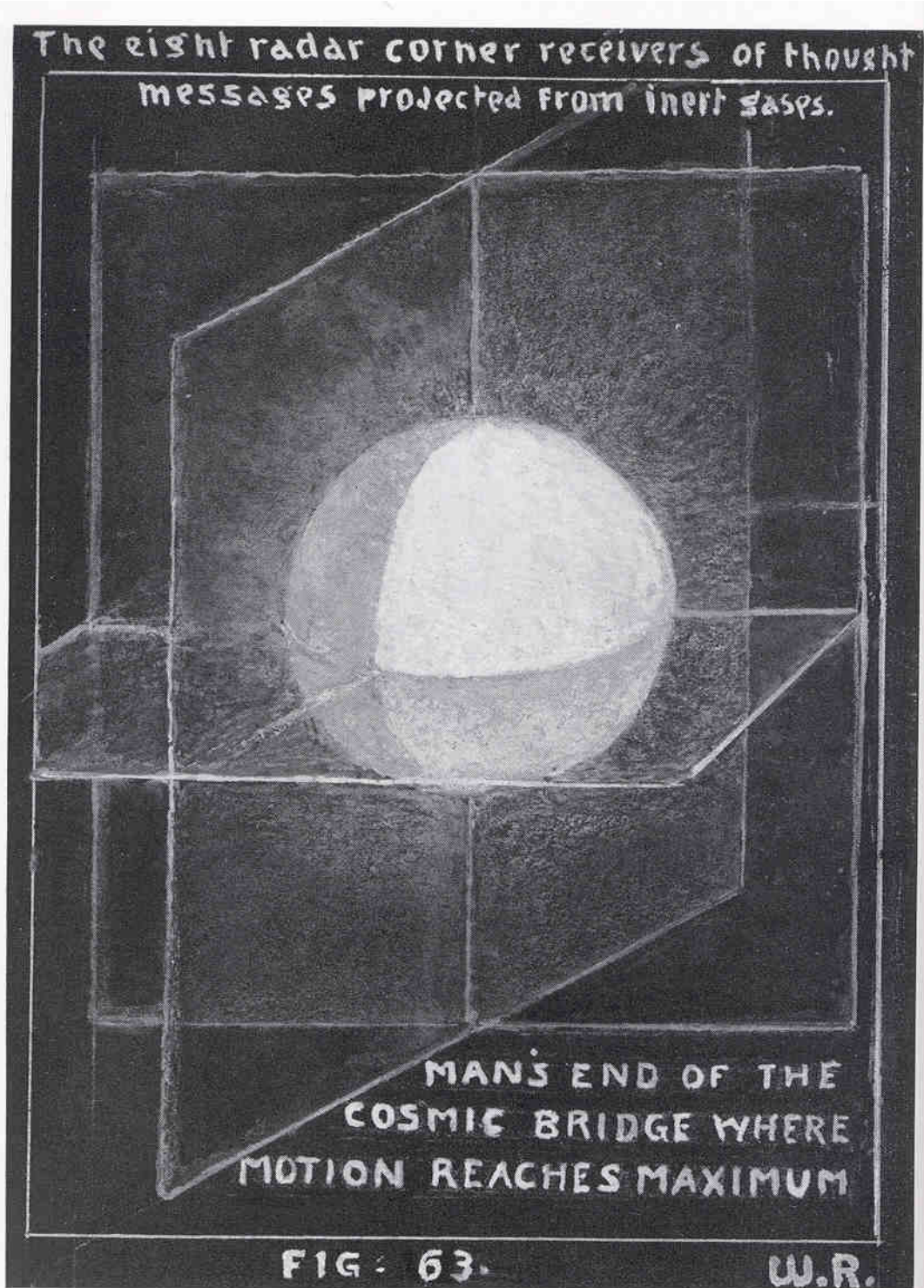
God's end of the cosmic

Bridge where motion begins  
Its projection into space  
To simulate mind-idea.

Matter begins by division of stillness in the inert gases and its projection by two-way motion into pairs of octave wave tones, which we call elements. The principle of projection is the same that man uses in projecting the concept of his idea into the moving form of the idea. It is the dual radar principle of Nature. Reduced to its ultimate simplicity, Nature is a series of echoes.

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The cube projector, shown in Fig. 62, is repeated in the cube receiver, shown herein. Motion which has been divided into pairs and thrown out into space by the projector, is multiplied in the vortices of the receiver, which corresponds to the corner reflectors of radar. Forms and sounds which are born in space are thus echoed back to space.

[\(click to enlarge\)](#)



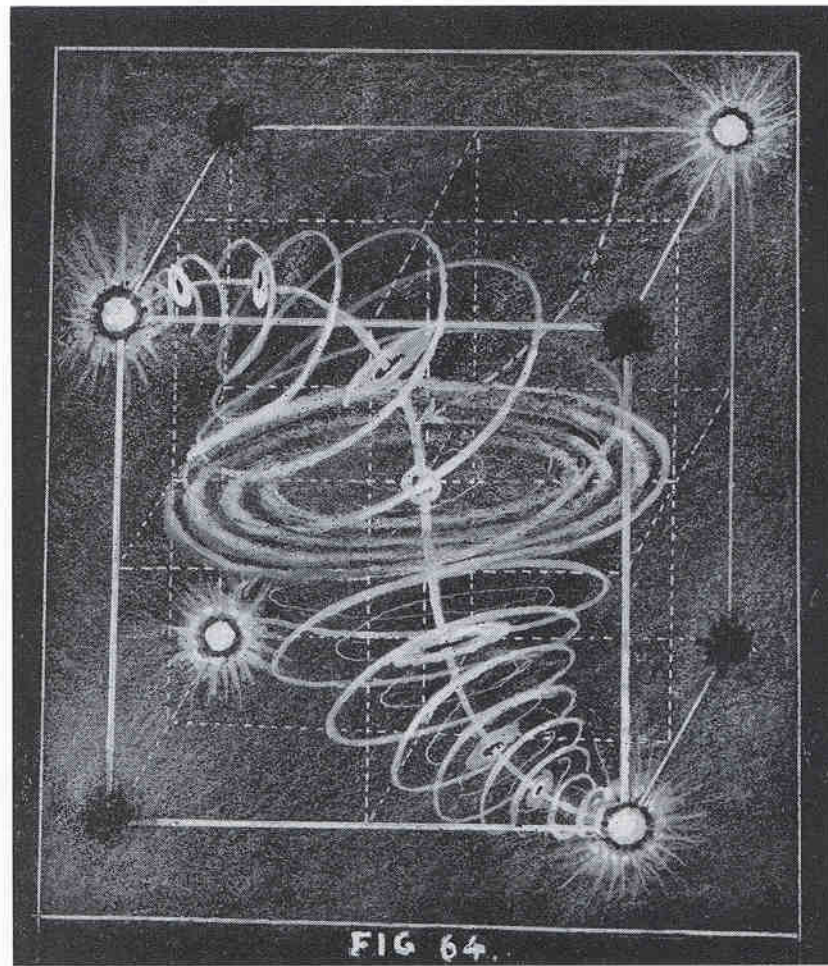
The eight radar corner receivers of thought messages projected from inert gas|inert gases)).

Man's end of the Cosmic Bridge where Motion reaches maximum.

The cube projector, shown in Fig. 62, is repeated in the cube receiver, shown herein. Motion which has been divided into pairs and thrown out into space by the projector, is multiplied in the vortices of the receiver, which corresponds to the corner reflectors of radar. Forms and sounds which are born in space are thus echoed back into space.

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Every form of matter which is projected into space has its anti-matter image within space, which ultimately voids it and reborns it. Anti-matter concepts have their own balancing relation to their material images in space geometry.

[\(click to enlarge\)](#)

Every form of **matter** which is projected into **space** has its **anti-matter** image within space, which ultimately **voids** it and reborns it. **Anti-matter** concepts have their own balancing relation to their material images in **space geometry**.

or of a **corpuscle** in your **blood**. You, and it, and all things else, are the formed-images which simulate the Creator's imagining. You, and the oak, and all things else, are thinking God's imagining. That **zero point** is *you*. In it is all-knowledge and all-power to extend to as you desire it, and are aware of it within that "**kingdom of heaven**" within you. You must someday learn

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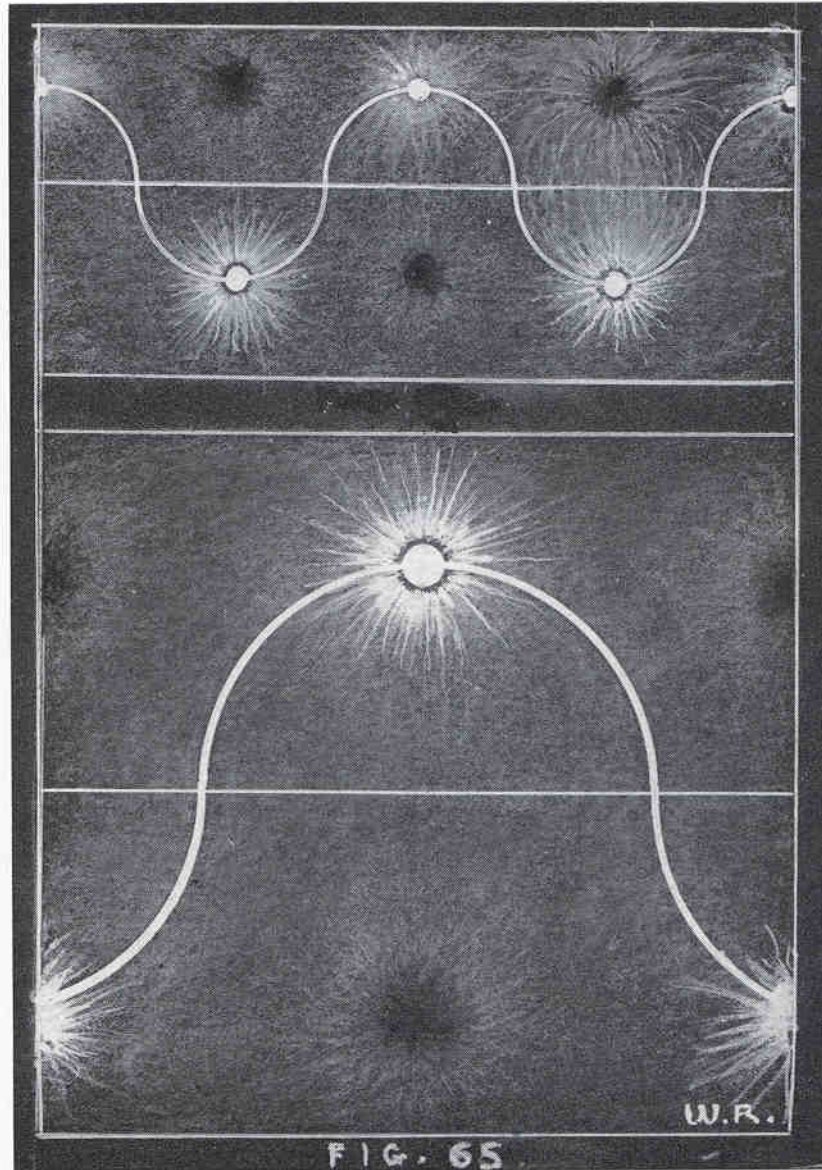
that. You must in time learn that the eternal YOU is on the other end of your projected body. If, at present, you are limited to body-awareness, it is only because you do not know of your divine **centering Source**. Many people in the world have hardly any **awareness** of the **God** which centers them. Science is at last beginning to realize that there is an **anti-proton**, and an **anti-meson** and is searching for anti-other things. That is the most wonderful thing that has happened to the intellectual world in thousands of years. *It has not yet become aware, however, that the **anti-matter** universe is God's universe.*

**Fig. 62** is the **seed**. When it is ready to extend - or to be reborn as an oak, or man, or **carbon** atom, it **divides** and becomes the **fulcrum** of itself. The **Mind-projection mirrors** then provide a **cube wave-field** for projecting idea into measured form of idea. By studying figures **62-63** - and **64** - you will also see why nature can never pass beyond the sphere in form. That is the end of its journey. The **reversal of polarization** begins there. The **charge** then becomes **discharge**. Spheres then **oblate** by throwing off **rings**. In ordinary language **life** is maximum there and **death** must take over. **Life** and **death** are born in the same cradle but they meet at that point as equals. That is the basis of the **radar** principle. The end of the journey of **sound**, as of all things else, is in one of the eight corners of the **cube wave-field**. **Sound** must return from that **focal point**. It is "reflected" from there. Electrical and radar engineers recognize that fact. They have even coined the name of "**corner reflector**" for it.

In **Fig. 62** you will see eight sections of a **cube wave-field**, which constitute the **four pairs** in every **octave**. Each of these pairs is a **radar corner reflector** in reverse. The reverse is a **corner projector**. The **corner reflector** of radar is a mirrored image of the **corner projector**. The **four pairs** constitute a **cube wave-field**. The **cube projector** never appears with the **seed** until it "germinates," which means that the conditions for its **rebirth** are normal for that **rebirth**. If it never again germinates on this earth it still is and maintains its one plane existence eternally. It cannot

be destroyed for it is **Mind-Idea** of **Mind-thinking**, and that is what constitutes all Nature.

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The pendulum which swings one way has its invisible counterpart which swings the other way. This drawing illustrates a sun at the crest of its wave which will eventually be voided by its counterpart, awaiting at its trough, and reborn again from the same point. See Fig. 66.

[\(click to enlarge\)](#)

The **pendulum** which swings one way has its invisible counterpart which

swings the other way. This drawing illustrates a sun at the **crest** of its wave which will eventually be voided by its counterpart, awaiting at its **trough**, and reborn again from the same point. See [Fig. 66](#).

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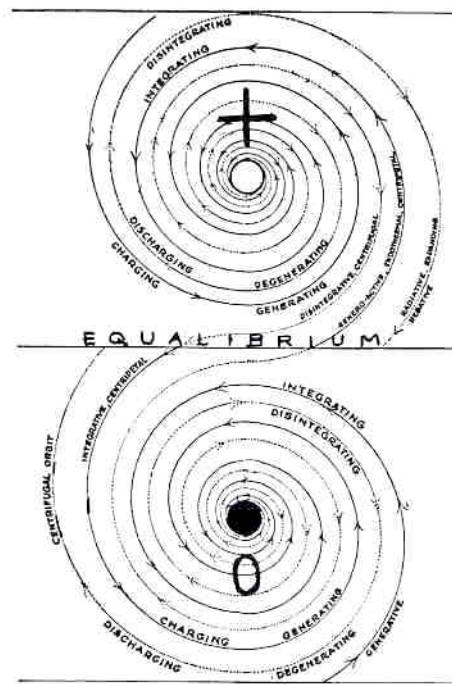


FIG. 66. Exemplifying the perpetual interrelationship of matter and anti-matter as shown in Fig. 65, which gives and regives to each other for perpetual sequences of rebirths into each other. The outstanding characteristic feature of Nature is repetition. Life and death are other names for it. Reincarnation is still another name for it.

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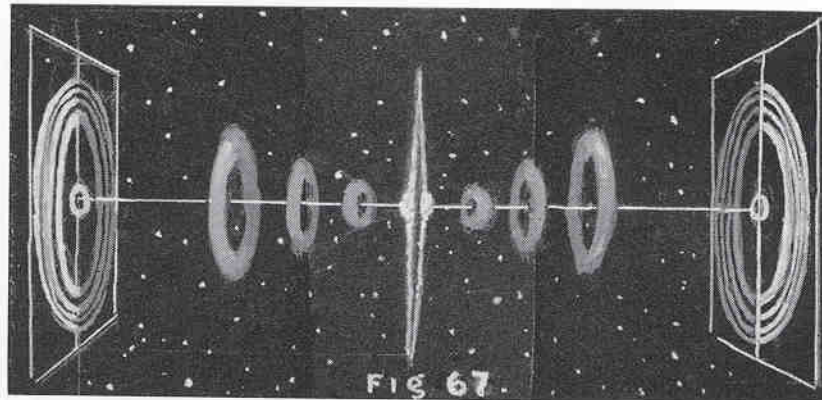
Exemplifying the perpetual interrelationship of **matter** and **antimatter** as shown in [Fig. 65](#), which gives and regives to each other for perpetual sequences of rebirths into each other. The outstanding characteristic feature of Nature is **repetition**. Life and death are other names for it. **Reincarnation** is still another name for it.

[Fig. 63](#) is the body end of the **cosmic bridge**. It is that which is projected.

It is motion compressed into a spherical image of the transient form that is eternally recorded in the [hole](#) which is within the [four rings](#) of the [seed](#). That sphere is also composed of eight parts, and is centered by the [zero](#) of its [Source](#).

To more fully comprehend this [omnipresent radar universe](#) of reflecting light mirrors and lenses, take one of the eight reflectors out of a cube, or make one composed of three mirrors placed the way they are shown in the corner of [Fig. 62](#). If you analyze

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Illustrating principle of projection of Mind-desire energy into pairs of tones to create the nine octaves of tones, which constitute Nature. The spiral nebula—seen edgewise—which occupies the amplitude position in the wave current, corresponds with the loop of force which centers every polarized unit of an electric current.

[\(click to enlarge\)](#)

Illustrating principle of projection of [Mind-desire](#) energy into [pairs of tones](#) to create the [nine octaves of tones](#), which constitute Nature. The [spiral nebula](#) – seen edgewise – which occupies the [amplitude position](#) in the [wave current](#), corresponds with the [loop of force](#) which centers every [polarized unit](#) of an [electric current](#).

this shape you will see that it is half a cube cut through its diagonals. If you now slowly insert an object on the end of a long needle, toward the [apex](#) of that pyramid you will see it reflected three times, and those

reflections will grow ever closer as your object nears that **apex**. That illustrates the **multiplication**, or compressive power of Nature. It also symbolizes **centripetal** force and higher **potential**. It also represents three of the octave elements on the **red** or **blue** side of the whole octave, of which the three mates are in the reverse **corner reflector**.

The fourth of the **octave pairs** is the **sphere** itself. These **four pairs**, and their **inert gas recorder**, constitutes the whole **octave wave-field principle**. It shows how matter is constructed. The balancing dark images in figures **64** and **65** show how the **zero universe** balances every movement in the universe by centering every **unit of matter** with its accumulated potentials at a **zero point** within it, which we call **gravity**, and with another equal **zero point** at balanced **focal points** between each pair.

In **Fig. 62** you see God's end of the **bridge** between the **Creator** and His **Creation**. In **Fig. 63** you see man's end of it. In **Fig. 64** you see how both ends are united by the **electric wave**, and in **Fig. 67** by the **electric current**. In **Fig. 67** a **nebula** has

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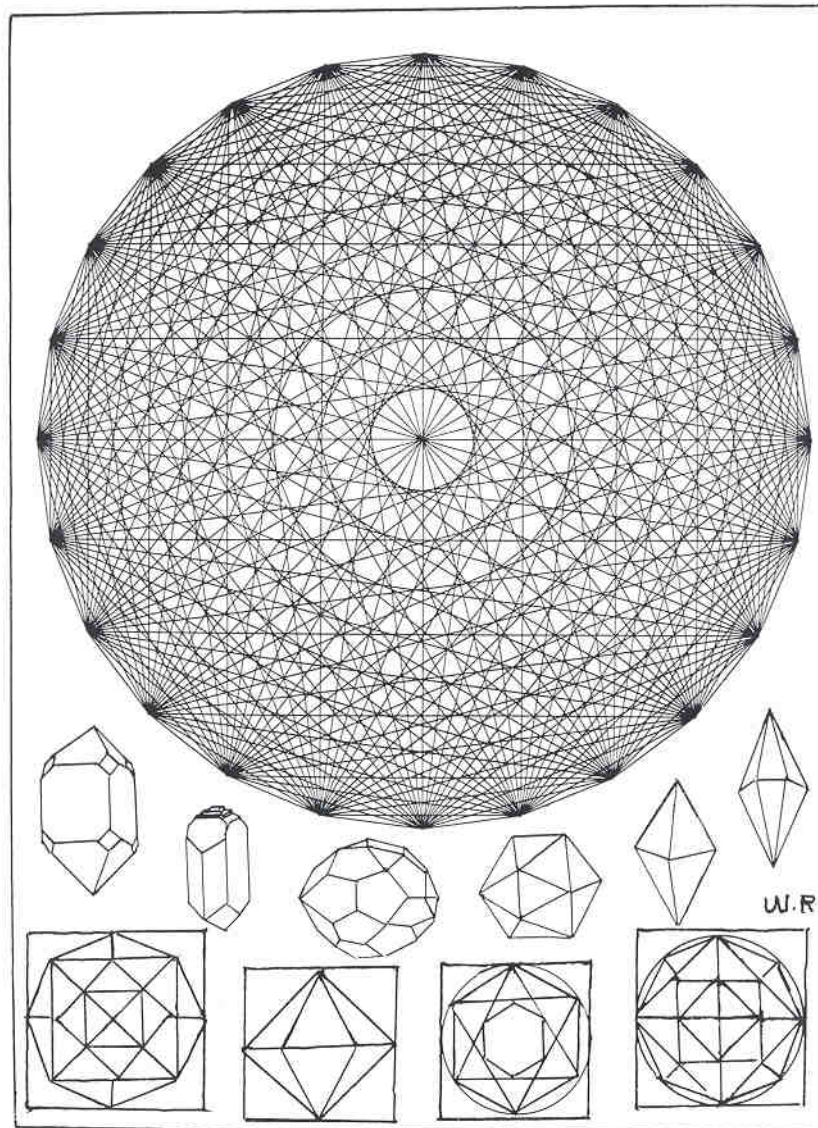


FIG. 68. Indicates a basis for the universal build-up from two-dimensional plane to three-dimensional cube, and back again to disappearance through two-dimensional plane.

[\(click to enlarge\)](#)

Indicates a basis for the universal build-up from two-dimensional **plane** to three-dimensional **cube**, and back again to disappearance through two-dimensional plane.

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been placed in the position in which a **loop of force** would occur in the



electric current, and where a carbon atom would be found in the elements of matter.

These drawings should clearly demonstrate how the Intelligence of the invisible zero universe absolutely controls the visible universe of motion as dynamically as the operator in the cinema controls his visible idea in motion. This control of the visible universe by the invisible will become dynamically applicable in man's laboratories, and his creative efforts in discovery and invention, in the ratio in which he comprehends the geometry of space. That in itself, is an exhaustive study, a practically new science which could never be fitted into the old concept of matter, but can readily be fitted into a universe based upon nine octaves of mathematically rhythmic cube-based tones.

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## VII

The question has long been asked by research scientists why it is that the inert gases will not mix, or unite with "any of the other elements." The first answer is that the inert gases are not electrically divided and conditioned elements, as all of the others in the nine octaves are. The inert gases begin in the first octave as invisible white fluorescent light of zero motion. They end at the 9th cathode in the 9th octave, as visible white fluorescent light, which has reached a speed of nearly 186,400 miles per second. Fluorescent light is that light which begins in the undivided electric spectrum. It is the beginning and end of motion. All motion is either red or blue, according to its sex. The end of motion at the amplitude of the 9th octave means that the divided spectrum has been united as one colorless, sexless light which has been under such high compression that it has reached its limit of conditioning by motion and must be transformed from the white light of visible motion to the invisible white Light of Magnetic stillness. The fluorescent light is that ending of electric power to divide motion into pairs, and to condition the pairs with the opposing sex tensions of electrically divided spectrum opposites. The inert gases are not pairs. They are not divided. Division takes place by light projected from them, but that

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projected light of spectrum pairs is the basis of the electrochemical elements, which have great volume and density in comparison.

We have described the "bullets" of white light which are projected from radium. The speed and microscopic volume of the white rays of all of the transuranium elements acquire their maximum fluorescence and maximum speed of terrific compression as they withdraw into their inert gas niton, and from there on down the line to helium. On the return journey, however, this maximum fluorescence also acquires maximum penetration. It is this power of penetration into the 4th octave pressures of your body which expands its cells and brings death to you and all 4th octave organic bodies. It is also this power of penetration and speed of the 9th octave which not only unlocks the pressures of the lower inert gases, octave by octave, but also unlocks the pressures of the 8th, 7th, 6th and 5th octaves of radioactive elements. Most deadly among these are radium, thorium, actinium, strontium, barium, calcium, potassium, arsenic and phosphorus.

*These are the elements which radioactivity has released in vast quantities in the upper stratosphere and would soon crowd the lower atmospheric layers with such a change of environment that oxygen-dependent bodies could no longer live. It may seem incredible to you who are accustomed to the idea of density in matter, and of the difficulty of ordinary light to penetrate even its crust, to know that the white fluorescent rays of plutonium or neptunium can penetrate several feet into solid lead after having become "de-electrolyzed" by their impact with niton. It is the accepted belief of the entire scientific world that radium eventually becomes harmless by "decaying" into lead. This is an impossibility of Nature for radium is male, and lead is female, in their sex divisions. Such a transition is one effect which is entirely outside of Nature.*

As a final word white light is the end, as well as the beginning of the

**divided spectrum.** Divided light reaches its limit of power to become compressed and from that point its power of **expansion** - or **explosion** - into its **zero** is indescribable by words. If such rays as these reach your body they can penetrate to any

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part of it without **resistance**. They can also act as triggers to unloose all other lower octaves which are stored in them. You thus have **uranium** in your blood cells and tissues, **strontium** and **calcium** in your bone marrow, and other radioactively liberated **particles** affecting every part of your body, its genes, hormones and even unto the destruction of the proteins of your hair and nails, all confined within one **particle**.

*Fortunately*, the human body can stand quite a dosage of such rays before showing it by bone cancer, **leukemia** and other effects of **radioactivity**, but also *unfortunately*, these rays are accumulative. *They never leave the body*. The defects mentioned above, including **sterility**, are incurable advance notices of the fact that you have reached your limit of power to take more of these translucent rays into your body. You can take no more, yet what are you going to do about it if you are irrevocably sealed within an increasingly radioactive environment? What is any living animal or vegetable going to do about it? *That is the question which we are submitting to the world. What is your answer to it?*

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## VIII

In conclusion we must add a few more paragraphs regarding the construction of the **inert gases**, which need volumes instead of paragraphs. This we must say, however.

If you refer to **Fig. 5**, which symbolizes the universe as a **nine octave harp**, you will note by the drawing that the strings are of the same length. It would be impossible to symbolize their relative lengths in

trying to express their underlying principle. Likewise, it would be impossible to symbolize their ring **proportions**. All we can say in this brief treatise, to clarify that mystery, is that the **four rings** of the **1st octave** are very large and grow smaller as the octaves proceed to the **9th**. Likewise, the length of the **1st octave** string is so very long that its vibrations are immeasurable and undetectable. The only thing we can think of to compare with this first string is the lowest string of a harp. It is so low that its vibrations have no **resonance** in them, but they are detectable. Now add one or two much longer and thicker strings below this lowest one and they would be silent,

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for it would be impossible for them to create one common **wave-crest amplitude** where a **collision** could occur.

The reverse condition takes place in the very short strings of the **8th** and **9th** octaves. These are so tightly tensed by maximum **compression** that they too cannot reach one common **amplitude**. Even in the **6th** and **7th** octaves that attempt to collide and form a "**loop of force**" is split into **five pairs** of attempts in each of these two octaves following the **silicon octave**. In the **8th** there are **thirteen pairs**, but in the **9th** the number is unknown, and at least twenty-one on the **red** side. The **blue** side fails to provide balanced mates for the six of the **transuranium series**, so all **motion** disappears into **zero** at that **9th octave** position.

You may be helped in imagining this condition by turning up the tuning key of the highest string on your harp to a point where it will no longer produce a normally advanced **wave-crest tone**. If the wire did not snap you would eventually reach a position where you could not hear any tone which would be audible to your senses. We trust this brief explanation will at least direct your thinking and imagining to the incredible high frequencies of such an element as **plutonium**, and the unbelievable high **fission** temperatures for infinitely short periods, which makes it possible for the radioactive elements to prepare humus and alluvial soil for organic life, by their terrific explosive power on micro-

scale. We trust also that this description will fully explain to you why such extraordinary power for expansion should not be released within the cells of bodies which are struggling hard to keep their body cells compressed sufficiently to live. If you could imagine just one cell of your body struggling against one radioactive ray which is expanding it, the comparison would be as a mouse straining against the power of an elephant. You will admit that such a discrepancy of balanced power would be hopeless - and it is.

## CONCLUSION

We now conclude our story, which has primarily dealt with the so-called **life** and **death** of bodies, for they are what we are interested in preserving from destruction in order that they may

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fulfill their purposes of completing the **Divine Symphony of Creation** as actors in it. To do so comprehensively, however, we have had to tell enough of man's divinity as an eternal Being to enable one to gain a better understanding of his universe, and the **Creator** of it.

We, therefore, repeat words written in earlier pages of this book, which say that our bodies express **life** only by the fast **generoactive centripetal motion** which **charges** and **polarizes**, and that they **die** only by the fast **radioactive centrifugal motion**, which **discharges** and **depolarizes**. We made this statement to demonstrate that **radioactivity** multiplies its **death speed** in each higher octave. In so doing we demonstrated that a radioactively charged atmospheric environment would sooner or later eliminate all organic matter from the surface of the planet and reduce it to desert of rock and sand, broiling in a temperature of at least 180 degrees.

This was our primary purpose. Its secondary purpose was to hasten the day of **spiritually unfolding** man by giving him new knowledge of his close relationship to His **Creator** and to **Creation**. This new knowledge

of the **Mind-universe**, in its relation to the **body-universe**, would also help clarify the nature of **radioactivity** in its action upon organic bodies, and especially **oxygen**. As **oxygen** cannot co-exist with the free metals above the **carbon octave** upon the **red** side of the **spectrum**, **radioactivity** must not be allowed to change our atmospheric normality.

This information has been given for you to act upon in accord with your decision and belief. If you believe that what is herein written is not true to the facts of Nature, the only other alternative is to prove that we are wrong by continuing the practice and pay the dreadful price of such a gamble, which these words were written to save you from. It would be a very pitiful thing to happen, however, for the human race is now due for a tremendous mental transition into another step of higher intellectual unfolding. If another annihilating third world war can be avoided, our future generations of gradually unfolding Mind-awareness will bring to man the knowledge of his own divinity.

As long as man continues to think of his *body* as being his

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**individuality** he will think individually, rather than universally. When he, at long last, discovers his eternal **Self** to be the **projector** of his own **body**, and is making himself in his own image, he will then know his **universality**, his **Oneness** with all **Creation**. He can never thereafter think of himself as an individual and will so act in all of his transactions in relation to his **Oneness** with all other men.

This ideal higher condition will come about more quickly as the new world's knowledge of the **geometry of space**, and the **Oneness** of all creating things, shall unfold to make the **zero invisible universe** as intellectually real as the **universe of motion** is now sensually real. This day will come, whether civilization again falls or not. A few centuries of dark ages could not stop it, for physical man would still be here. *Radioactivity alone could stop it, for it would take at least 50,000 years for the recovery of the earth's normalcy*, and millions of years after that

for the slow unfolding of the pattern of the man-idea through the many body building stages, which Nature has to make use of in her longtime processes of unfolding man of today from the amoeba of millions of years ago.

Civilizations of individuals may come and go, as many have come and gone, and as this one is now so rapidly declining, but always the *cause* of decline is individual thinking and of individual concern. Individuals believe they can acquire by *taking*. Universalists know they can acquire only by *giving*. When all men shall have learned the lesson of **love** sufficiently to become ONE in their **thinking**, they will become one in their giving to the WHOLE instead of to the self. When that day of **unity** shall come we shall then have a civilization which will endure, but not until then.

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## **OMEGA**

*The supreme **miracle** that can happen to any man is the discovery of his own **divinity** in his **Oneness** with **God**. If this book shall have led him to the **Light of Mind**, which man is in **God**, and he is illumined with that **Light of all-knowing, all-power and all-presence**, giving him dominion over all the earth - it will have then served the double purpose of the hopes of its authors - rather than just the single purpose of its naming.*

## KEELY'S FORTY LAWS OF SYMPATHETIC VIBRATORY PHYSICS

These laws, discovered by [John Keely](#), were originally published in [Dashed Against the Rock](#).

Commentary originally published in [Journal of Sympathetic Vibratory Physics](#), five volumes and [Universal Laws Revealed: Keely's Secrets](#)

"It is very rare, wrote more than sixty years ago (circa 1840) the celebrated chemist [Dumas](#), "that one succeeds in comprehending the laws of a whole class of phenomena, by studying those whose action is displayed with the greatest intensity. It is generally the contrary which is observed, and it is nearly always by the patient analysis of a slight or slow phenomenon that one succeeds in discovering the laws of those which at first escaped analysis." [[Gustave Le Bon](#), [The Evolution of Matter](#), page 274]

The following **forty laws** governing natural [harmony](#), [sound](#) and [vibration](#) are explored by [Dale Pond](#) in detail in his book: [Universal Laws Revealed: Keely's Secrets](#). Some of these [laws](#) are again explored in [It's a Musical Universe](#) article and [elsewhere](#) in this [SVPwiki](#). see [FAQ](#) for discussions of these [laws](#) Keely's gift of these laws to [William Colville](#) to put in his book:

*"The newly discovered forces, and **laws** governing all forces, make possible the processes herein described. Scientific investigations no longer consist in a blind groping after facts; an untried chemical combination can now be planned and its results predicted. Synthetical operations covering the entire domain of organic chemistry can be worked according to simple rules and methods deducible from these **newly discovered laws** and by the aid of these, to us, new forces. With a knowledge of these facts it is possible for man to work a wondrous change in his methods of manipulating [matter](#)."*

*I shall be happy to present you with a [table of definitions](#) which I have written out as briefly and succinctly as possible; and though I doubt not the [definitions](#) will be well-nigh incomprehensible to the masses, you are at liberty to make any use of them you please in your literary endeavors to enlighten humanity." [John Ernst Worrell Keely](#), 1894*



## (1) Law of Matter and Force

"Coextensive and coeternal with [space](#) and [duration](#), there exists an [infinite](#) and unchangeable quantity of [atomoles](#), the base of all [matter](#); these are in a state of constant vibratory motion, [infinite](#) in extent, unchangeable in quantity, the initial of all forms of [energy](#)."

## (2) Law of Corporeal Vibrations

"All coherent aggregates when isolated from like bodies, or when immersed or confined in media composed of [matter](#) in a different state, vibrate at a given ascertainable [pitch](#)." [see [Commentary](#)]

## (3) Law of Corporeal Oscillations

"All [coherent](#) aggregates not isolated from like bodies, oscillate at a period-frequency varying with the [tensions](#) that augment and diminish the state of [equilibrium](#)." [see [Universal Heart Beat, Rhythmic Balanced Interchange](#)]

## (4) Law of Harmonic Vibrations and here

"All [coherent](#) aggregates are perpetually vibrating at a period-frequency corresponding to some [harmonic ratio](#) of the [fundamental pitch](#) of the vibrating body; this [pitch](#) is a multiple of the [pitch](#) of the [atomoles](#)." [see [Overtone series](#)]

## (5) Law of Transmissive Vibratic Energy

"All oscillating and vibrating [coherent](#) aggregates create, in the media in which they are immersed, outwardly propagated concentric waves of alternate [condensation](#) and [rarefaction](#), having a period-frequency identical with the [pitch](#) of the aggregate.

**Scholium:** All forms of [transmissive](#) energy can be focussed, reflected, refracted, diffracted, transformed, and diminished in [intensity inversely](#)

as the square of the distance from the originating source." [See also **Square Law**]

**(6) Law of Sympathetic Oscillation** and here

"Coherent aggregates immersed in a medium pulsating at their natural pitch simultaneously oscillate with the same frequency, whether the pitch of the medium be a unison, or any harmonic of the fundamental pitch of the creative aggregate."

**(7) Law of Attraction**

"Juxtaposed coherent aggregates vibrating in unison, or harmonic ratio, are mutually attracted." [See Bjerknes Effect, Dimerization, Association]

**(8) Law of Repulsion**

"Juxtaposed coherent aggregates vibrating in discord are mutually repelled." [see Repulsion, Dispersion, Dissociation]

**(9) Law of Cycles**

"Coherent aggregates harmonically united constitute centers of vibration bearing relation to the fundamental pitch not multiples of the harmonic pitch, and the production of secondary unions between themselves generate pitches that are discords, either in their unisons, or overtones with the original pitch; from harmony is generated discord, the inevitable cause of perpetual transformation." [See also **Principle of Regeneration**, Transmutation]

**(10) Law of Harmonic Pitch** and here

"Any aggregate in a state of vibration develops in addition to its fundamental pitch a series of vibration in symmetrical sub-multiple portions of itself, bearing ratios of one, two, three, or more times its fundamental pitch." [see Overtone Series]

## (11) Law of Force and here

"Energy manifests itself in three forms: **Creative**, the vibrating aggregate; **Transmissive**, being the propagation of isochronous waves through the media in which it is immersed; **Attractive**, being its action upon other aggregates capable of vibrating in **unisons** or **harmony**." [see **Bjerknes Effect, Law of Attraction and Repulsion, Dimerization**]

The table below pertains to the following three laws.

Range <sup>[1]</sup>	Octave	cps range (gamut)	Sound Type	Sound Effect	Sound Action	Vibe Type	Governing Law
			<b>Law of Force-&gt;</b>	<b>Creative</b>	<b>Transmissive</b>	<b>Static</b>	
<b>Atomolic</b>	65..105	? - ?	Atomolity	Gravism	Gravity	Atoms Oscillate	Law of Oscillating Atomoles
<b>Etheric</b>	43..64	4,398,046,511,104 / 1.8014398509482E+19	Thermism	Rad-energy	Cohesion / Chemism	Atoms Oscillate	Law of Oscillating Atoms
<b>Atomic</b>	21..42	2,097,152 / 4,294,967,296,000	Sono-thermity	Sono-therm	Adhesion / Disintegration	Internal Vibrations	Law of Sono-thermity
<b>Molecular</b>	1..20	1... 1,048,576	Sonity	Sound	Sonism	Atomic Oscillation	Law of Oscillating Atomic Substances

**Table 14.03 - Ranges of Forces Vibration Forms Types and Governing Laws**  
[see Law of Transformation of Forces for explanation of this Table]

[see [Law of Transformation of Forces](#) for explanation of this Table]

[1] see [Subdivision](#)

[NOTE: 06/29/13; CPS needs to be recalculated]

## (12) Law of Oscillating Atomic Substances

"Coherent **atomic** substances are capable of oscillating at a **pitch** varying directly as the **density**, and inversely as the linear dimensions from one **period** of **frequency** per unit of **time** to the 21st octave above, producing the **creative force** of **Sonity**, whose **transmissive force** (Sound) is

propagated through the media of solids, liquids, and gases, and whose **static effect (Sonism)** produces attractions and repulsions between sympathetically vibrating bodies according to the **Law of Harmonic Attraction and Repulsion**." [See also **Locked Potentials**, **Law of Attraction and Repulsion**, **Paschens Law**]

### **(13) Law of Sono-thermity**

"Internal vibrations of **atomic** substances and **atomic** molecules are capable of vibrating at a period-frequency directly as their **density**, inversely as their linear dimensions, directly as the coefficient of their **tension** from the 21st to the 42nd octaves, producing the **creative force (Sono-thermity)**, whose **transmissive force (Sono-therm)** is propagated in solid, liquid, gaseous, and **ultra-gaseous** media, statically producing **adhesions** and **molecular** unions, or **disintegration**, according to the **Law of Harmonic Attraction and Repulsion**." [see **Law of Attraction and Repulsion**, **Paschens Law**]

### **(14) Law of Oscillating Atoms**

"All **atoms** when in a state of **tension** are capable of oscillating at a **pitch** inversely as the **cube** of their **Atomic weights**, and directly as their **tension** from 42 to 63 octaves per **second**, producing the **creative force (Thermism)**, whose **transmissive force (Rad-energy)** propagated in solid, liquid, and gaseous **ether**, produces the **static** effects (**Cohesion** and **Chemism**) on other **atoms** of **association**, or **dissociation**, according to the **Law of Harmonic Attraction and Repulsion**.

**Scholium:** Dark radiant **heat** begins at absolute zero **temperature**, and extends through **light**, **chemcial rays**, **actinic** rays, and infra-violet rays, up to the **dissociation** of all molecules to the 63rd octave." [see **Dissociation**, **Rad-Energy**, **Law of Attraction and Repulsion**]

### **(15) Law of Vibrating Atomolic Substances**

"**Atoms** are capable of vibrating within themselves at a **pitch** inversely as

the **Dyne** (the local coefficient of **Gravity**), and as the **atomic** volume, directly as the **Atomic weight**, producing the **creative force (Electricity)**, whose **transmissive force** is propagated through **atomolic** solids, liquids, and gases, producing **induction** and the **static** effect of **magnetism** upon other atoms of **attraction** or **repulsion**, according to the **Law of Harmonic Attraction and Repulsion**.

**Scholium:** The phenomenon of **Dynamic Electricity** through a metallic **conductor** and of **induction** are identical. In a metallic **conductor**, the transmission is from **atom** to **atom**, through homologous interstices, filled with **ether**, presenting small areas in close proximity. In crystalline structures, **heat**, which expands the **atoms**, by twisting them produces **striae**, increases the **resistance**, etc. Between parallel wires and through air the **induction** takes place from large areas through a rarefied medium composed of a mixture of substances, whose **atoms** are separated by waves of **repulsion** of various pitches, **discordant** to **electric vibrations**; the said atoms sympathetically absorb the vibrations and dissipate from themselves, as centers, concentric waves of **electric energy** which produces **heat** and **gravism**." [See also **Etheric Elements, Paschens Law, Resistance**]

### **(16) Law of Oscillating Atomoles and here**

"**Atomoles** oscillating at a uniform **pitch** (determined by their uniform size and **weight**) produce the **creative force Atomolity**, whose **transmissive** form, **Gravism**, is propagated through more rarefied media, producing the **static** effect upon all other **atomoles**, denominated **Gravity**." [See also **Etheric Elements, Gravitation, Levitation**]

### **(17) Law of Transformation of Forces**

"All forces are different forms of **Universal Energy** unlike in their period-frequency, merging into each other by imperceptible increments; each form representing the compass of 21 octaves. Each form or **pitch** may be transformed into an equivalent quantity of another **pitch** above or below it in the **scale of 105 octaves**. The **transformation** can occur only

through its **static effect**, developing vibrations of **harmonic** pitches above or below their **fundamental vibration**, or developing with juxtaposed aggregates, **resultant** and **difference**, or third **order**, as the case may be.

**Scholium:** A table of the **intervals** and **harmonics** of the normal **harmonic scale** will indicate the **ratios** in which the **transformation** of forces will occur." [see **Overtone Series**]

### **(18) Law of Atomic Pitch**

"Atoms have each a different and definite **pitch**, at which they naturally vibrate.

**Scholium:** **atomic pitch** is determined directly from its simple **spectrum**.

**Scholium:** **atomic pitch** is determined by computations from its associate **spectrum** with all other atoms, as in known **spectra**.

**Scholium:** **atomic pitches** are more important working data than **Atomic weights**; tables of **atomic pitches** must be precise."

### **(19) Law of Variation of Atomic Pitch by Rad-energy**

"The higher **harmonics** and **overtones** of projected **rad-energy** are of a **pitch** sufficiently high to cause the **atom** to expand; by causing the **atomoles** to vibrate systematically the same influence will cause the **atom** to contract, and thus by changing the volume, **atomic pitch** is varied." [see **Rad-Energy, Law of Cycles**]

### **(20) Law of Variation of Atomic Pitch by Electricity and Magnetism**

"**Electricity** and **Magnetism** produce internal vibrations in the **atom**, which are followed by proportional changes in volume and, therefore, **pitch**." [See **Reciprocating Proportionality, Stoichiometry, Magnetization**]

### (21) Law of Variation of Atomic Pitch by Temperature

"Atoms in chemical combination oscillate with increasing amplitude directly as the temperature, and simultaneously absorb overtones of higher harmonics, producing expansion of volume and diminution of pitch.

Rule: The gradual approach of the temperature of harmonic combination can be observed by mutually comparing superimposed spectra; chemical combination commences when the fundamental lines of each spectrum bear harmonic ratios by linear measurement." [see Dimerization]

### (22) Law of Pitch of Atomic Oscillation

"Atoms not isolated and in a state of tension between forces that oppose and increase the equilibrium oscillate bodily at a pitch that is a resultant of the Atomic weight, atomic volume, and tension." [see Universal Heart Beat]

### (23) Law of Variation of Pitch of Atomic Oscillation by Pressure

"The frequency of atomic oscillation increases and diminishes inversely as the square of the pressure." [see also Part 12 - Russells Locked Potentials]

### (24) Law of Variation of Atomic Oscillation by Temperature

"The force of cohesion diminishes inversely as the square of the distance the atoms are apart, and the force of the chemical affinity diminishes in the same ratio. Heat increases the amplitude of the oscillations in a direct ratio to the temperature of the natural scale. [See also Part 12 - Russells Locked Potentials, Scale of the Forces in Octaves]

**Scholium:** New thermometers and accurate thermometric tables, on the natural base, wherein doubling the temperature doubles the pitch of the transmissive energy, are required. Such a table of temperature will bear

natural relations to **atomic** weights, pitches, specific heats, **chemical affinities**, fusions, solubilities, etc., and will disclose new **laws**. One table for each must be constructed." **Keely** [See **Tables, Proportion, Ratio**]

### **(25) Law of Variation of Atomic Oscillation by Electricity**

"The **electric current** destroys **cohesion** and **chemical tension** directly as square of **current** in **amperes**, inversely as the **resistance** in **ohms**, inversely as the **chemical equivalent**, and conversely as the coefficient of the difference between the freezing and volatilizing **temperature** of **mass** acted upon." [see **Dissociation, Dispersion, Ohms Law**]

### **(26) Law of Variation of Atomic Oscillation by Sono-thermism**

"Diminishes the tensions directly as the quantity of **heat** developed, and in antithetical **proportion** to the **harmonics** absolved." [See **Reciprocating Proportionality, Stoichiometry**]

### **(27) Law of Chemical Affinity**

"Atoms whose **atomic** pitches are in either **unison**, **harmonic** or **concordant ratios**, unite to form molecules. [see **Dimerization, Bjerknæs Effect**]

**Corollary:** When two atoms are indifferent, they may be made to unite by varying the **pitch** of either, or both.

**Scholium:** This necessitates the construction of **tables**, representing variation of **atomic** pitches by **temperature**, **pressure**, etc.

**Scholium:** **Tables** of all **harmonics** and **concord**s, and **harmonics** founded upon a normal **harmonic scale**, are equally essential.

**Scholium:** Optical instruments may be made to measure pitches of **energy**."



### **(28) Law of Chemical Dissociation**

"If the **pitch** of either **atom**, in a **molecule**, be raised or lowered; or, if they both be unequally raised or lowered in **pitch** until the mutual **ratio** be that of a **discord**; or, if the **oscillation** amplitude be augmented by **heat** until the atoms are with the concentric waves of **attraction**, - the atoms will separate." [See also **Part 12 - Russells Locked Potentials, Reciprocating Proportionality, Stoichiometry, Dissociation**]

### **(29) Law of Chemical Transposition**

"New molecules must be **harmonics** of the **fundamental pitch**." [see **Dimerization**]

### **(30) Law of Chemical Substitution**

"(too complex for brief statement)"

### **(31) Law of Catalysis**

"The presence of **harmonics** and **discords**."

### **(32) Law of Molecular Synthesis and Combination - Organic**

"The **molecular pitch** must be a derived **harmony** of the radicals.

**Scholium**: Reconstruction of **electric units** to represent **pitches** and **amplitudes**."

### **(33) Law of Chemical Morphology**

"The angle of **crystallization** is determined by the relation between the **molecular pitch** of the crystallizing **substance** to the variation-density of the liquid depositing it."

### (34) Law of Atomic Dissociation

"Overtones of high rad-energy pitches produce separation of the atomoles and recombinations among the atomolic molecules of the atoms." [See also **Etheric Elements**]

### (35) Law of Atomolic Synthesis of Chemical Elements

"Harmonic pitches of atomolity produce association of etheric-atomolic particles to form atoms; the kind of atom is determinable by the pitches employed." [see **Affinity, Association**]

### (36) Law of Heat

"Atoms under the tension of chemical combination oscillate with an amplitude directly as the temperature, inversely as the pressure, and as the square of the specific heat. Diminishing the pitch of oscillation inversely as the square of the distance of the atoms apart, and simultaneously increasing the vibrating pitch of the atom by absorption of overtones and higher harmonics." [See also **Part 12 - Russells Locked Potentials, Square Law, Dimerization, Law of Attraction and Repulsion**]

### (37) Law of Electro-Chemical Equivalents

"An atom vibrates sympathetically under the influence of electric energy, such undertones of which are absorbed as are a harmonic or harmony of the electric pitch; the amount of energy absorbed being directly as the arithmetical ratio of the undertone of the fundamental electric pitch.

**Scholium:** A table of electro-chemical equivalents on the normal basis will indicate the electrical conditions and amount of chemical change."

### (38) Law of Cohesion

"The **cohesion** between atoms diminishes directly as the **square root** of the **pressure** and **temperature**, and as the square of **electric intensity**."

### **(39) Law of Refractive Indices**

"A table of the refractive indices of substances indicates their **molecular pitch**; and in connection with crystalline form the **phase** of **molecular oscillation**."

### **(40) Law of Electric Conductivity**

"**Electric energy** is transmitted through homogeneous bodies with a completeness in direct **proportion** as the **atoms** are more or less perfect **harmonics** of the **electric pitch**, but not at all through **substances** whose **atoms** are **discordant** to the **electric pitch**; also through **molecular substances**, when their **resultant notes** are **harmonics** of the **electric pitch**, - the transmissions being inversely as the **temperature**, directly as the **density** diminished in **proportion** to the amount of **crystallization**, and inversely as the **cube** of the **dyne**, also directly as the reciprocal of the local magnetic **intensity**." [See also **Part 12 - Russells Locked Potentials, Stoichiometry, Curies Law, Paschens Law, Superconductivity, Resistance, Ohms Law**]