

*Sympathetic Vibratory Physics*

# *The Divine Triplet*

or the

## Law of One

in considering

### Gold, Silver & Platinum

as applied to the

### Mind, Body & Spirit

by Dale Pond

“My system, in every part and detail, both in the developing of this power and in every branch of its utilization, is based and founded on *sympathetic vibration*. In no other way would it be possible to awaken or develop this force, and equally impossible would it be to operate my engine upon any other principle.”

John Keely, 1888

# The Divine Triplet

Dale Pond

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# INTRODUCTION

Dale Pond

Gold, silver and platinum have been long recognized as having nearly miraculous healing and other interesting properties. This book looks at these metals from a vibration physics viewpoint. It is shown how this Grand Triplet does indeed effect the human organism in a positive and harmonizing manner. Edgar Cayce recommended these metals in his Wet Cell device effecting incredible cures and John Keely used them in his famous Bixar, Trexar and Trexnor or superconducting wires for transmitting perfectly harmonious flows of etheric and luminous interetheric vibrations (light flows). It is shown that the substantive element working throughout the universe is Sympathetic Vibration. A synonym for sympathetic or coincident action is LOVE. *It will be shown empirically that love is the prime connecting link throughout the universe.* Eventually we will see that in the 'curative' process the active agents are Mind, Light and related conditions and forces of sympathetic vibration. Coincidentally we will see that these are the same forces used by Keely in his machinery and processes. Moreover we get a glimpse of the dynamics of the Mind of man in action to where we can see the functioning principles connecting this all-powerful instrument to the incredibly engineered body.

*"What are the sciences but maps of universal laws, and universal laws but the channels of universal power; and universal power but the outgoings of a universal mind?" - Edward Thomson*

Make no mistake - the cures for Mankind's ills are and have been at hand. Man, in his arrogance and quest for power and control over his neighbor is the ultimate cause of his own suffering and death. After reading this book you too will see that the only thing people die of today is from their own *ignorance*.

*"I have spent much time in the study of abstract sciences; but the paucity of persons with whom you can communicate on such subjects disgusted me with them. When I began to study man, I saw that these abstract sciences are not suited to him, and that in diving into them, I wandered further from my real object than those who knew them not, and I forgave them for not having attended to these things. I expected then, however, that I should find some companions in the study of man, since it was so specifically a duty. I was in error. There are fewer students of man than of geometry." Pascal*

Other books by Dale Pond

Universal Laws Never Before Revealed: Keely's Secrets

The Physics of Love

Journal of Sympathetic Vibratory Physics, vol. 1-5

Dynaspheric Force, vol. 1-2

SVP Compendium of Terms & Phrases

Atlin - Knowing I AM

HyperVibes™

History of American Constitutional or Common Law

Nikola Tesla's Earthquake Machine

Keely Motor or Hydro Vacuo Engine - How it works and why

Sympathetic Streamings

Chord of Life Aura Chart Handbook

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## **INDEX**

# The Divine Triplet

Gold, silver and platinum have been long recognized as having tremendous healing and other interesting properties. This paper looks at these metals from a vibration physics viewpoint. It is shown how this Grand Divine Triplet does indeed effect the human organism in a positive manner. Edgar Cayce used these metals in his Wet Cell device effecting incredible cures and John Keely used them in his famous Trexar or superconducting wire for transmitting perfectly harmonious flows of etheric vibrations. It will be shown that in the 'curative' process the active agents are the vibrations of Mind, Light and related conditions and forces. Coincidentally we will see that these are the same forces used by Keely in his machinery.

## **"Harmony is health - discord is disease."**

Keely, circa 1885

Life and all of its activities and conditions are a direct result of the two states of being and activity: *harmony* and *discord*. There is a little-known third state - midway between these two extremes - that contains elements of them both and is called the Neutral or Dominant. Life is a vibratory or cyclical experience which is the manifestation of these three states.

Perhaps it could be said this way: "Harmony (in body, mind and spirit vibrations) is health - discord (in body, mind and spirit vibrations) is disease." Before one can properly interpret the simple little phrase above it is imperative to understand the terms given. *Health* means what? That all the parts and functions of the human organism are in perfect *Harmony*. The rest is simple - disease then is the opposite state, i. e., discord or discordance between the parts and functions of the body. Once we understand the inner structure and intelligence that is *Harmony* then we can go about planning and executing that which is essential to creating and maintaining concordance in one's body, mind and Life.

*"Harmonize thy life as ye do the tones of nature itself; and more joy and beauty will be in thy daily experience." Cayce (262-121)*

But what is harmony? Harmony can best be defined in a technical manner as:

*"HARMONY is the simultaneous vibration of two or more bodies whose harmonics do not produce discords, and whose fundamental pitches are harmonics of the lowest pitch, or are a unison with the resultant notes or overtones, or undertones, of any two or more of them." Keely, 1894*

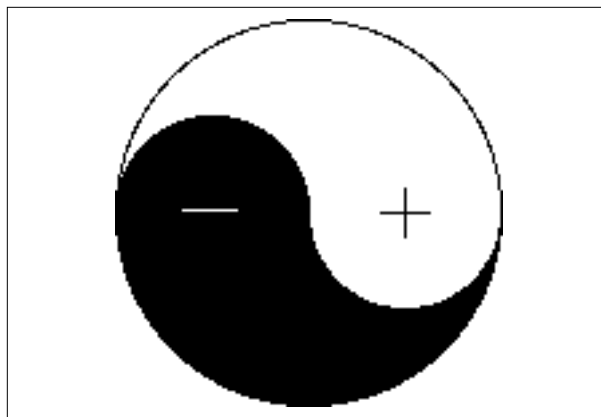
Thus each individualized thing has its own set of vibrations more or less in tune with and between themselves. For something to be healthy it must be in tune or harmony. Therefore to heal something not in tune or sick there must be added or brought to bear on these out-of-tune vibrations that which will harmonize them.

There are three ways of improving harmony. 1) Add or emphasize the existing harmony; 2) decrease or de-emphasize the discords or eliminate the cause of discords; 3) all of the above. The three noble metals composing the Divine Triplet - gold, silver and platinum - possess characteristics that when properly applied will contribute, in a significant way, to the re-establishment of harmony within the vibrations of the human body thereby reestablishing the Grand Harmonium we call health.

## **A Triple Study of Triplets**

So our work here will be of a three-fold nature. We will delve into the 1) physical properties of the three metals of interest being silver, gold and platinum; then we will endeavor to explore the 2) inner "substances" or essences of these metals being their vibratory inner natures - their *real* realities; and 3) we will learn what these vibrations are and how they interact.

Beginning then with the most recognized form of these metals, their physical substance, we can get an idea about each of them as a "thing". From their "thingness" we will begin to see and recognize some of their higher attributes derived as a result of their inner vibratory structures and motions. As even Edgar Cayce (1877-1945) recommended to an eager student:



The ancient symbol of Yin-Yang symbolizes the two opposites of male/female, positive/negative which are really two sides of the same thing.

They are ONE and work as one when the whole is united. Black is usually taken to be the negative or female while white is usually understood to be the positive or male polarity.

*Q-12: [993] I was told through a reading [993-4, A-7] to acquire an educational knowledge of gold and silver necessary to healing. How should I go about to obtain that knowledge? May I have any information on this subject which may be given at this time?*

*A-12: "Seek first that as has been compiled by the chemical analyses of same as related to the physical body. Remember we are speaking physically. Then there may be given the mental and spiritual application of same in healing, see? These are, as has been indicated before, as influences that represent in the mind of man forces that are necessary. Cayce [993-5?]"*

Man is not strictly speaking a "mental" being nor is he a "spiritual" being much less a pure physical being. He is all three of these states and more *simultaneously*. He possesses mental qualities which manifest *electric* qualities of attraction and repulsion as hinted at by Walter Russell<sup>18</sup> and demonstrated by Keely<sup>5</sup> and as is beginning

to be recognized by 'modern' science. Human beings possess spiritual talents and abilities as mentioned by Christ, Cayce, Lewis, Blavatsky and countless others.

Man, in order to be able to manifest all these qualities *simultaneously*, must possess a physical form and structure as a channel into the material dimension. Through this molecular form the other realms of skills, talents and traits may have a channel as it were for manifestation into the three dimensional physical world. Just so these metals are the physical form through which manifest the special 'spiritual' or inner and higher qualities inherent to each of them. What is the cause of the differences from one metal to another? Surely not just the number of electrons... Just as the difference between human beings is not simply caused by the number of electrons making him or her into a physical structure. Speaking from and about the spiritual aspects of these three noble metals Cayce said:

*"How few there be that a few dollars would not heal many, many a feeling - at least bring security! Then may not that spiritual force, with the essences of same as applied to the physical body, be applied in a spiritual manner as to bring efficacy in its spiritual application? Silver is a sustaining cord, a renewer of the energies as applied between the physical forces and the energies of activity of life itself upon nerve and brain forces as well as the very essence of the glandular secretions of the body. The same applies then in that given." Cayce (281-27)*

A study of anything cannot be wholly undertaken solely upon the merits of one aspect of that subject. The study of gold or silver or platinum as metals alone will reveal little if anything of worth. The human mechanism is a complex and wholistic structure and the entire complexity of it must be addressed. Likewise the higher and so-called spiritual properties must not be left out of the consideration because these are the part of the proverbial iceberg not showing to our senses. On the same note the same must be done for gold

\* Life is a musical dynamic and structure. Just as the musical scale has a single predominant note- the key note or fundamental - so too does the human body. It is a 'single' organism. However, the fundamental develops into the three major tones of the scale forming a Grand Tri-Tone Chord of great harmony. The body forms the great triad of body, mind and spirit. The music scale goes on to form the five, then seven, then 12 notes of its scope. The human system has these divisions as well: body, mind, spirit, emotion, intuitive, sensual and experiential. The seven musical terms divide into sharps and flats forming the full gamut of 12 musical tones. The body does likewise. For instance: light-spirited vs dark-spirited; high emotions vs low emotions, etc.

and silver and platinum. Generally speaking, modern science ignores that which it cannot put into a test tube or measure on a meter of some kind. Strange attitude perhaps when one considers that two hundred years ago electricity could not have been measured on any device because no device existed which could do this and yet electricity existed!

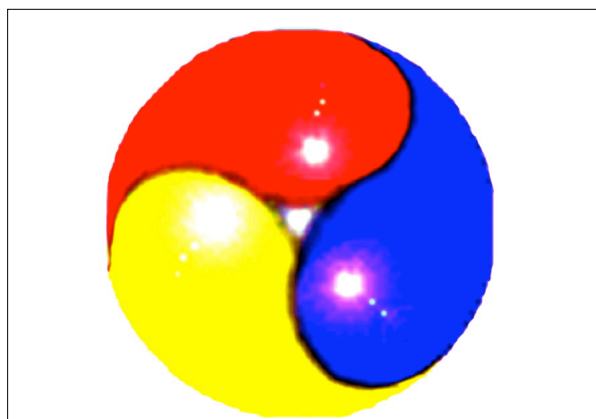
The works of a number of men and women were analyzed and then synthesized in this discussion. The little understood science and vibration sections of the Edgar Cayce readings<sup>4</sup> will be interpreted here in a way that even the most obscure of his readings on these and related subjects will begin to make sense. No less daunting to understand are the works of John Ernst Worrell Keely (1837-1898)<sup>5</sup>. By bringing these separate works together it will be much easier for a reader to bridge the gaps of understanding. This is not unlike the merging of two lesser works and deriving a larger more comprehensible work from them. This merging will, in effect, render their works 'easier' to understand. A word of caution here is that the concept of "easier" is on a sliding scale all its own. The reader will have to put forth an effort to 1) set aside some of what they think they already know and 2) pour forth an effort to understand new concepts relating to a new paradigm.

## Linear vs Analog

Before we can begin to unravel this marvelous insight into mankind, his biological systems and his very life, it is necessary to understand some basic concepts. These basics are not complicated or difficult. In fact they are simplicity itself. The effort here is caused by the *number of totally new concepts* you will have to juggle until all at once 'Eureka!' and you "grok" it all at once. This rather non-linear method of learning is caused by this paradigm being WHOLISTIC or ORGANIC or more complete than the conventional linear, sterile and white-washed so-called modern "scientific" paradigm.

The place to begin is with the simple concept that everything in the universe

# VIBRATES.



The triune polar forces act together as ONE force. Or we may say the ONE force manifests as a triune ensemble of polarized aspects or phases or modes. While the three phases act as ONE and are not differentiated - none of them are perceptible. Energy only manifests to our senses and instruments when the triune harmony is broken by a discordant influence either from within or from without.

Black = Negative, Attractive  
White = Positive, Radiative  
Gray = Neutral, Balance

This is an almost trite but nevertheless straightforward statement that simplifies our job of understanding the Universe by reducing the problem to its lowest Common Denominator - VIBRATION. Science has long recognized this fact of nature. Ancient philosophies and schools of learning have taught this principle since schooling and learning began.

But what is a vibration, really? Why is it so important and powerful? How does it work? What does it do? Where do they come from? Where do they go? If everything is a vibration then why do we perceive hard things, soft things or hot and cold things? With the presentation of the basics and their subsequent understanding all these and many more questions will be answered in a simple way.

Vibration manifests as a shift from positive to negative, male to female or night to day. Or to simplify we can say a vibration is the rhythmic and periodic change from one state to its opposite state. When this change of state occurs quickly it is referred to as a vibration. If the change is over a long span of time it is called a cycle as in planetary or solar cycles which occur over years and even hundreds of years. Whereas a vibration can occur so quickly as to repeat itself many millions of times in the short time span of a second.



Using the Cayce readings again it is seen how simply the concept of vibration permeates everything and every phenomena.

*"All force is vibration..." Cayce (900-422)*

*"So is matter." Cayce (1861-16)*

*"All comes from one central vibration--taking different form." Cayce (900-422)*

*"Everything is vibratory." Cayce (195-54)*

*"Vibration is movement. Movement is activity of a positive and negative force." Cayce (281-29)*

The all inclusive properties and extensions of the vibratory phenomena make it at once the most fertile ground for study. From the inner functionings of the forces as they move, undulate and oscillate through and about all things we can learn the very secrets of the Universe. Those secrets are the insights of the inner secrets of all that there is. So pervasive are these forces that Cayce likens them to God him/her/itself.

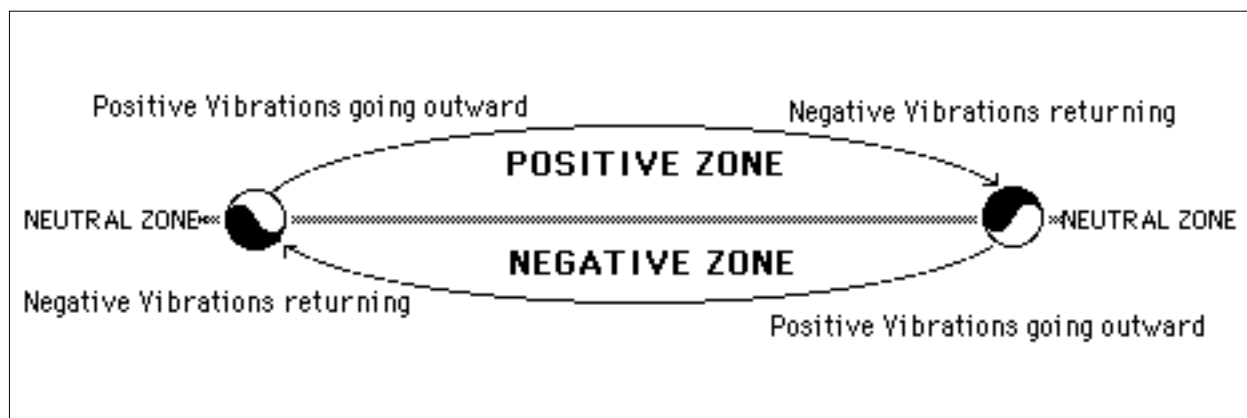
*"Electricity or vibration is that same energy, same power, ye call God." Cayce (2828-4)*

If all molecules are made of atoms and these in turn are made of smaller and smaller yet more and more energetic particles then we will ultimately be speaking of this highest Creative Force. Quantum science, metaphysics, religion and now science takes us to this one inescapable conclusion. There is some unknowable *some-*

*thing* which goes to make up everything. And yet while this work is an investigation into the triple nature of gold, silver, platinum and the human organism it is also an exploration into all other greater and subtler realms of matter and energy because no thing can be truly isolated from all else. The journey will take us with Love through Mind to God.

Those scientists (Tesla, Keely, Helmholtz, Edison and others) involved in that epic time before the turn of the century were well aware of the higher realms of ether and those doing experiments with it. The many centuries of exploration into various science subjects together with mathematics, geometry, music and history all merged in that period with great and wondrous revelations concerning Mankind and his role in Nature. A scientist was well educated in many subjects and languages enabling him or her to operate in a wholistic and unfettered capacity as a seeker of Truth. This is not so today. Nowadays we do not have any true scientists as in those days. We have technicians trained in specific and narrow routines or procedures - much like our lawyers and attorneys. There is no search for the Truth as the truth will often unseat the existing or accepted 'way of things'. This, of course, will lead to censorship, disbarment, loss of job security and eventually failure as an accepted and approved "member of the team".

Fortunately for us there were and are those "renegades" to the established norm who really do care about the truth and do not concern them-



No vibration can exist of and by itself having only one polarity. The two polarities work "as one" or as a coin with two sides. There must be a positive and negative phase to every vibratory motion. These two "opposites" combine to form a single unit which is neither positive nor negative yet contains them both in equal amounts and is therefore NEUTRAL or equalized into a state of balance or harmony.

selves with perpetuating the fraud, deception and deceit. History is filled with such brave and courageous pioneers. When these succeeded they were hailed as pioneers. When they failed they were branded as heretics, revolutionaries or trouble makers. One of those who succeeded was Edgar Cayce, the world renown psychic from Virginia Beach, well represented by his son Hugh Lynn. The elder brought forth from the Akashic Records over 50,000 pages of details concerning some or other aspect of a Greater Truth. Hugh Lynn spent considerable time and effort bringing this truth to a wider audience. This greater truth is that we are all part of the one, single and complete universe. There is no other universe as far as we are concerned. The function of this comprehensive life is that of being and existing and acting within the Law of One or the Law of Assimilation or the Law of Love. All three named laws are of the same circumstance.

The following lengthy quotes are an excellent presentation on this aspect of the one-ness of all. Originally written by Hugh Lynn Cayce many years ago but is still as relevant today as the day he wrote it in May, 1935:-

## Oneness of All Force

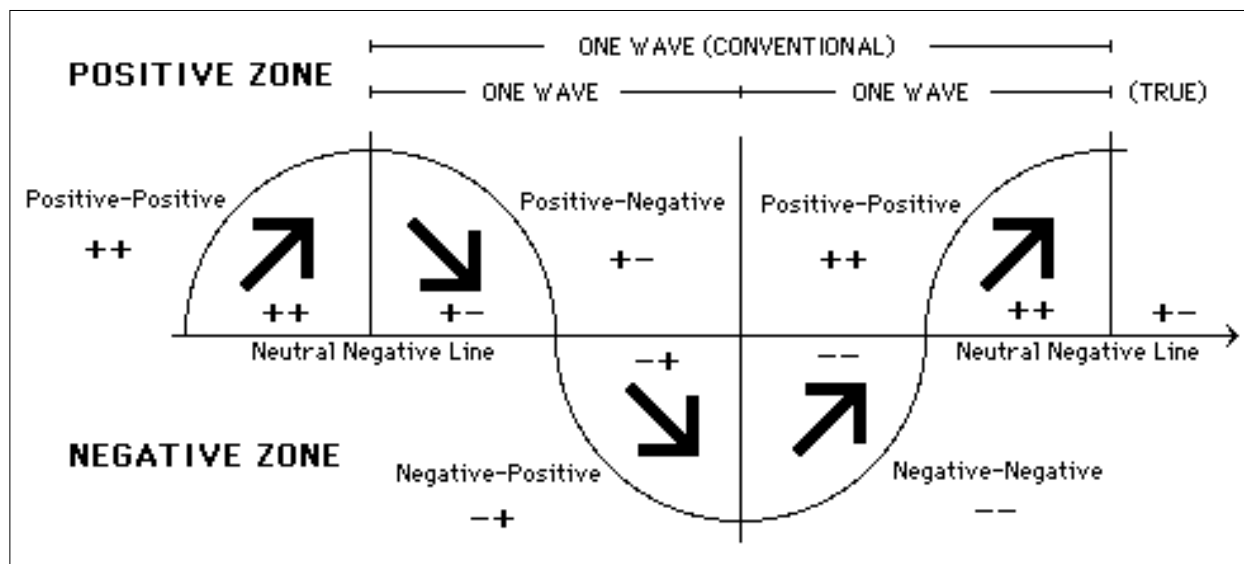
*"In the manifestation of all power, force, motion, vibration, that which impels, that which detracts, is in its essence of one force, one source, in its elemental form. As to what has been done or accomplished by or through the activity of entities that have been delegated powers in activity, is another story.*

*"As to the one source or one force, then, are the questions presented in the present.*

*"God, the first cause, the first principle, the first movement, IS! That's the beginning! That is, that was, that ever will be!*

*"The following of those sources, forces, activities that are in accord with the Creative Force or first cause - its laws, then - is to be one with the source, or equal with yet separate from that first cause.*

*"When, then, may man - as an element, an entity, a separate being manifested in material life and form - be aware or conscious of the moving*



A vibration is usually given in a diagram form much like the above but without all the notations. This form of wave is called a sine wave and is standard fare in convention work. According to the new understanding we have been finding concerning the true nature of vibrations it behooves us to add the notations to clarify a minor but significant point. That being the fact that a vibration is a pulsation out and then back to its point of origin. First one side then the other. So the complete oscillation from one side to the other constitutes two vibrations of opposite polarity - not one as is ordinarily understood. The expansion and contraction on one side of the neutral line or the other constitutes a *complete* vibration but of a single phase either positive or negative. The swing through one side and then through the other side would constitute two vibrations of both phases which may then be considered as a unit having a complex nature.

Relative States of Matter and Energy									
Liberated Pure Energy					Shortest Wavelength Smallest Particles				
Most Energetic Greatest Density					Highest Frequency				
Keely		Ancient	Modern	Leadbeater	Gurdjieff Centers	Ray of Creation	Gurdjieff Cosmoses	Chakras	
<div>∞</div> <div>Levels of Consciousness</div> <div>↑</div> <div>↓</div> <div>DIMENSIONS OF PLANES</div> <div>FIELDS OF REALMS</div> <div>↑</div> <div>↓</div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> <div>9</div> <div>Celestial</div> <div>Terrestrial</div>	Infinite Ninths	God	God Particle	Mahaparanirvanic	The Essence	Absolute	Protocosmos	Crown 7	
	Mind	Mind	Gluons?	Paranirvanic		True Intellectual	All Worlds	Ayocosmos	Pineal 6
	Compound Interetheric	Akasha	Muons	Nirvanic					
	Interetheric	Æther	Quarks	Mental	True Emotional	All Suns	Macrococosmos	Heart 4	
	Etheric	Ether	Photons Light	Astral	Magnetic	Sun	Deuteroocosmos	Navel 3	
	Interatomic	Fire	Leptons Plasmas		False Personality	All Planets	Mesocosmos	Spleen 2	
	Atomic	Air	Atoms Gases	Physical	False Intellectual	Planets	Tritocosmos	Root 1	
	Intermolecular	Water	Liquids		False Emotional	Earth	Microocosmos (Gurdjieff atom)	Longest Wavelength Largest Particles	
	Molecular	Earth	Molecule Solids		Movement	Absolute	Microocosmos (Gurdjieff atom)		
Least Density Least Energetic					Lowest Frequency				
Bound Solid Matter									
©Dale Pond 1987-1999									

$$E = mc^2$$

The above formula was a brave and daring attempt to describe all phenomena and function in a single formula. It does not quite make the mark. A formula, for this purpose, to be complete would have to take in to consideration all of the below listed qualities and a few others.

The higher the FREQUENCY  
the greater the ENERGY  
the greater the DENSITY\*  
the smaller the PARTICLE  
the smaller the MASS\*  
the shorter the WAVE LENGTH  
the less SOLID.

and

The lower the FREQUENCY  
the less the ENERGY  
the less the DENSITY\*  
the larger the PARTICLE  
the greater the MASS\*  
the longer the WAVE LENGTH  
the more SOLID.

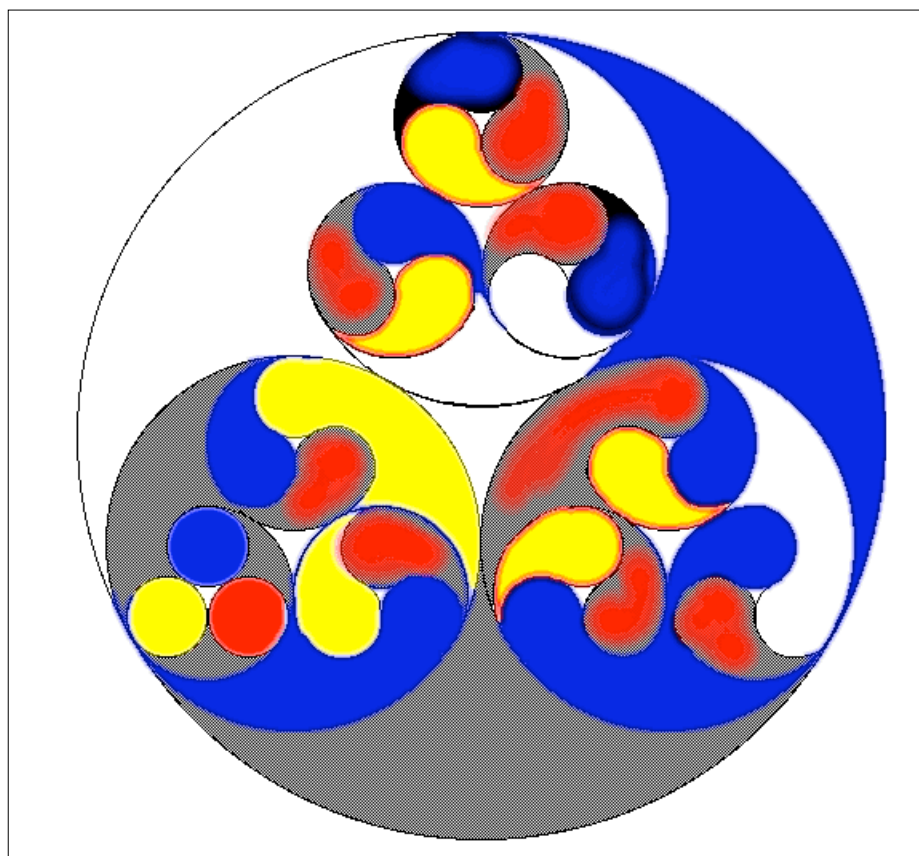
*Dale Pond, 1995.*

\*These qualities are resultants of several other parameters and the modern or conventional definitions of them are incomplete at best.

In Keely's drawing below each sphere represents a particle of a given quantity of energy, size, density, velocity, frequency, polarity or charge and mass. The largest is of a simple molecule. According to Einstein's famous equation the faster a thing moves the denser (smaller and more compact), more massive and more energetic it becomes. In the drawing we can see smaller and smaller ranges or realms of particles. Each realm is approximately seven times the energy of the next larger sphere and 1/7 the energy of the next smaller sphere or particle. The faster one of these particles spins the smaller it gets but the decrease in size is a leap or 'pop' from one size to the next.

Also one will note that these smaller realms of particles are the etheric realms or spiritual realms referred to by other schools of thought (see page 6). The drawing at the bottom is presented by Richard Feynman, recent winner of a Nobel Prize in Physics. Modern physics seems to be "catching up" to Keely.

Color of triplets is: blue = black = negative, red = white = positive, yellow = grey = neutral charges or polarities.



"The fact that the proton and neutron are **made of charged particles going around inside them** gives a clue as to why the proton has a magnetic moment higher than 1, and why the supposedly neutral neutron has no magnetic moment at all." Richard Feynman

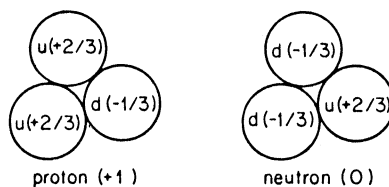


Diagram by Richard Feynman

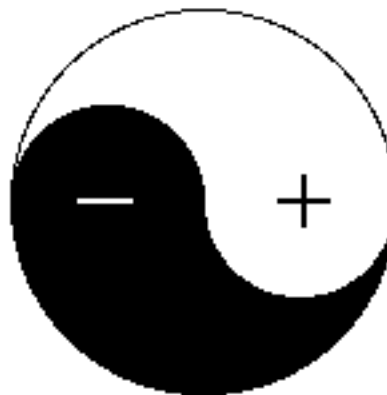
"The charge of a proton is +1 and a neutron's charge is zero. With some fiddling about with the numbers, you can see that a proton - **made of three quarks** - must be two *u*'s and a *d*, while a neutron - also **made of three quarks** - must be two *d*'s and a *u*." Richard Feynman

## Dualism or Polarity

The ancient symbol of Yin-Yang symbolizes the two opposites of male/female, positive/negative which are really two sides of the same thing.

They are ONE and work as one when the whole is united.

Black is usually taken to be the negative or female while white is usually understood to be the positive or male polarity.



*of that first cause within his environ?*

*"Or, taking man in his present position or consciousness, how or when may he be aware of that first cause moving within his realm of consciousness?*

*"In the beginning there was the force of attraction and the force that repelled. Hence, in man's consciousness he becomes aware of what is known as the atomic or cellular form of movement about which there becomes nebulous activity. And this is the lowest form (as man would designate) that's in active forces in his experience. Yet this very movement that separates the forces in atomic influence is the first cause, or the manifestation of that called God in the material plane!*

*"Then, as it gathers of positive-negative forces in their activity, whether it be of one element or realm or another, it becomes magnified in its force or sources through the universe.*

*"Hence we find worlds, suns, stars, nebulae, and whole solar systems, moving from a first cause.*

*"When this first cause comes into man's experience in the present realm he becomes confused, in that he appears to "have an influence*

*upon this force or power in directing same. Certainly! Much, though, in the manner as the reflection of light in a mirror. For, it is only reflected force that man may have upon those forces that show themselves in the activities, in whatever realm into which man may be delving in the moment - whether of the nebulae, the gaseous, or the elements that have gathered together in their activity throughout that man has chosen to call time or space. And becomes, in its very movement, of that of which the first cause takes thought in a finite existence or consciousness.*

*"Hence, as man himself applies himself - or uses that of which he becomes conscious in the realm of activity, and gives or places the credit (as would be called) in man's consciousness in the correct sphere or realm he becomes conscious of that union of force with the infinite with the finite force.*

*"Hence, in the fruits of that - as is given oft, as the fruits of the spirit - does man become aware of the infinite penetrating, or interpenetrating the activities of all forces of matter, or that which is a manifestation of the realm of the infinite into finite - and the finite becomes conscious of same.*

*"As to the application of these as truths, then:*

*"It may be said that, as the man makes in self-*

through the ability given for man in his activity in a material plane - the will - one with the laws of creative influence, we begin with:

*"Like begets like - As he sows, so shall he reap - As the "man thinketh in the heart, so is he."*

*"These are all but trite sayings to most of us, even to the thinking man; but should the mind of an individual (the finite mind) turn within his own being for the law pertaining to these trite sayings, until the understanding arises, then there is the consciousness in the finite of the infinite moving upon and in the inner self."*

*"So does life in all its force begin in the earth. The moving of the infinite upon the negative force of the finite in the material, or to become a manifested force." Cayce (262-52)*

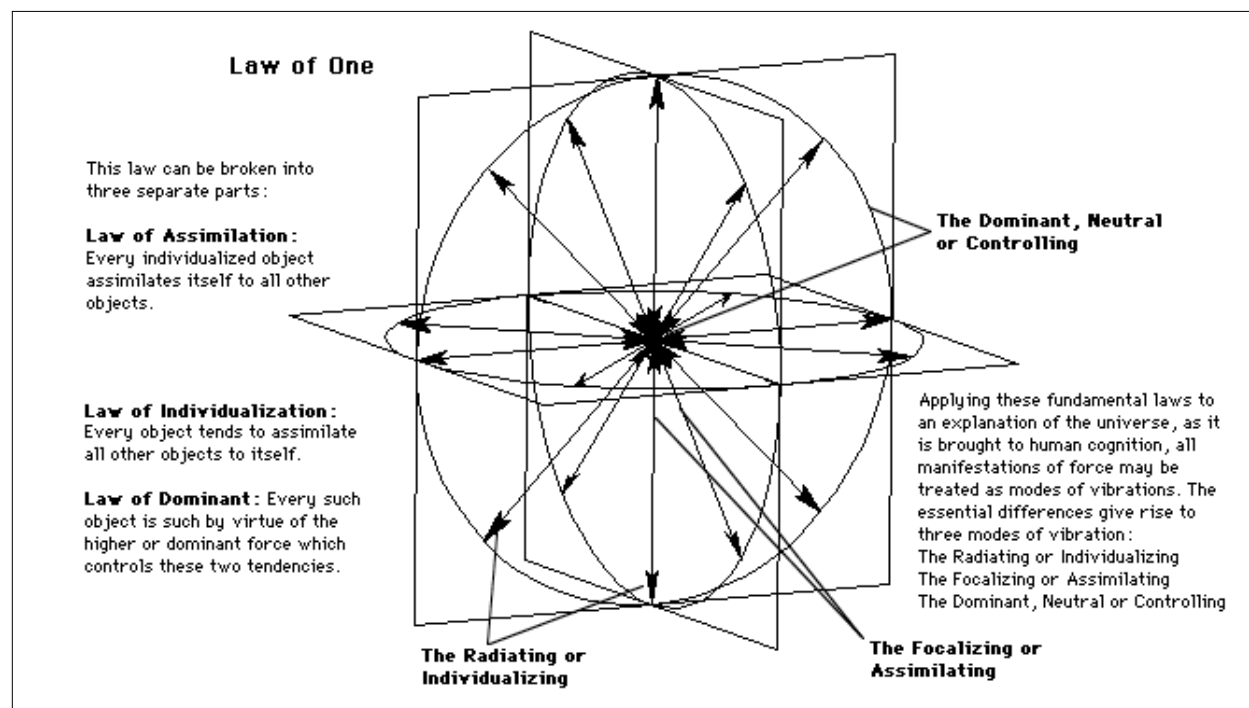
### Oneness of Everything

*"Nothing is more important for mankind to realize than the oneness of everything. One - One - One! Oneness of God, oneness of man's relations, oneness of time, oneness of purpose, oneness of every effort - oneness - oneness! In application of the understanding already gained there comes the more perfect realization of the theory. For, though seemingly a vague concept, the oneness of all force is a basic and fundamen-*

*tal truth. As man in his everyday life applies his understanding of this truth, there results a more complete expression of the real self."*

*In the fall of an apple there was little other than man be experienced in any individual's life. Only Newton first saw that it applied to his relation with the universe and how it held the whole solution to a vast problem. Through the application of that known a great theory was gradually conceived. Just so will man come to the realization of the oneness of all force by the application of that already known. There is in each experience a law that may be reached through working the experience in terms of material application." Cayce (900-429)*

*We have arrived at a few conclusions which may be stated briefly as follows: All force is of one original source. The division of force which seems so evident is due to two conditions: First, the rebellion of beings against Creative will, both in and outside of this material plane, yet, having influence through and upon entities passing through this plane (the earth); second, the limitations of the conscious faculties in this material world. It is possible for man to attain a realization of this oneness, in fact, highly desirable that he do so, through a developed expression of the creative force within. This can best be attained through study of self."*



Wave Numbers of Various Spectra Ratioed and Presented Relative to Standard Musical Intervals.						
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Pythagorean Komma	0.987654	81	80	Music	Frequency	Frequency
Gold : Silver	0.986855	41186.84	40645.45	Wave Number	1234801933059.50	1218570791788.70
<b>Difference</b>	<b>0.000799</b>	<b>0.0809%</b>				
Major (Diatonic) Semitone	0.937500	16	15	Music		
Silver : Platinum	0.936180	40645.45	38051.46	Wave Number	1218570791788.70	1140801682375.60
<b>Difference</b>	<b>0.001320</b>	<b>0.1408%</b>				
Minor Second	0.925926	27	25	Music		
Gold : Platinum	0.923874	41186.84	38051.46	Wave Number	1234801933059.50	1140801682375.60
<b>Difference</b>	<b>0.002052</b>	<b>0.2216%</b>				
Platinum : Gold	0.867565	38051.46	33012.13	Wave Number	1140801682375.60	989720064428.61
Augmented Second	0.853333	75	64	Music		
<b>Difference</b>	<b>0.014232</b>	<b>1.6405%</b>				
Minor Third	0.833333	6	5	Music		
Silver : Platinum	0.827115	30481.58	25211.78	Wave Number	913852917745.26	755861694654.66
<b>Difference</b>	<b>0.006218</b>	<b>0.7462%</b>				
Platinum : Silver	0.801062	38051.46	30481.58	Wave Number	1140801682375.60	913852917745.26
Major Third	0.800000	5	4	Music		
<b>Difference</b>	<b>0.001062</b>	<b>0.1326%</b>				
Augmented Third	0.768000	125	96	Music		
Gold : Platinum	0.763713	33012.13	25211.78	Wave Number	989720064428.61	755861694654.66
<b>Difference</b>	<b>0.004287</b>	<b>0.5583%</b>				
Perfect Fourth	0.750000	4	3	Music		
Gold : Silver	0.740081	41186.84	30481.58	Wave Number	1234801933059.50	913852917745.26
<b>Difference</b>	<b>0.009919</b>	<b>1.3226%</b>				
Minor Sixth	0.625000	8	5	Music		
Silver : Platinum	0.620285	40645.45	25211.78	Wave Number	1218570791788.70	755861694654.66
<b>Difference</b>	<b>0.004715</b>	<b>0.7543%</b>				
Gold : Platinum	0.612132	41186.84	25211.78	Wave Number	1234801933059.50	755861694654.66
Major Sixth	0.600000	5	3	Music		
<b>Difference</b>	<b>0.012132</b>	<b>1.9819%</b>				

Taking any two numbers and relating them one to the other as is done with musical intervals reveals the quantitative relationship each has to the other. The arithmetical ratios determine the degree of harmony or discord of the relationship.



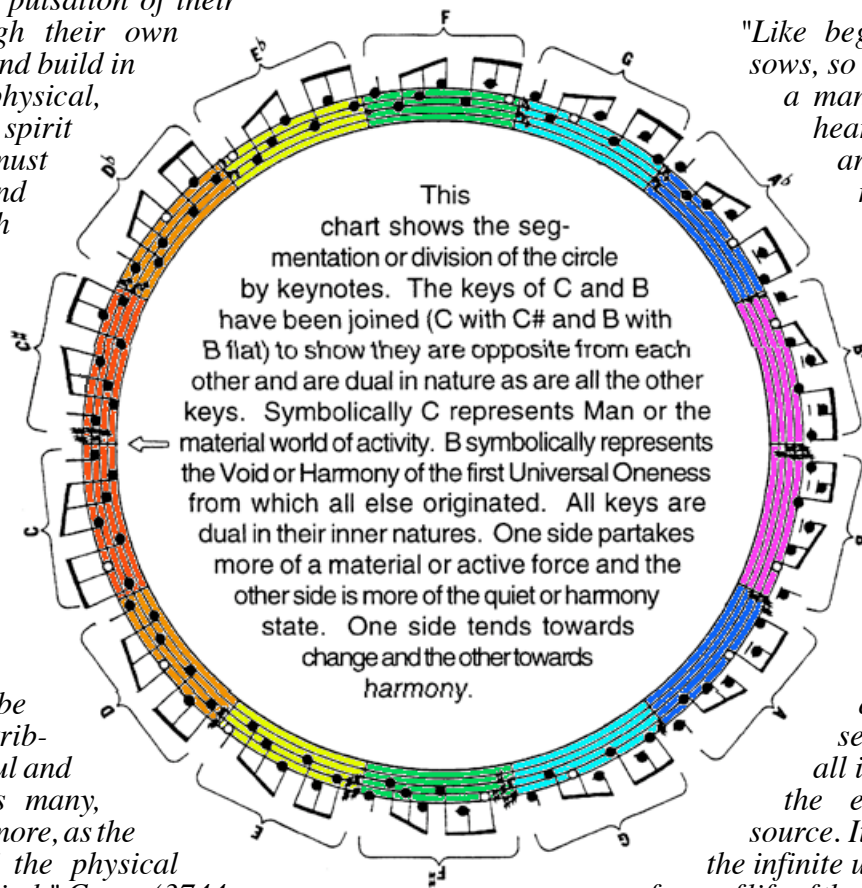
Finally, let us consider the principal law which must be an individual's guide in an attempt to understand himself in relation to the One Force. "Like begets like. Being of God, let us seek ever to fully and completely express His presence within us. Give, then, more thought to acting like His children, His creations. For thoughts are deeds, and the children of the relation to spirit and soul's plane of existence, as they do in the physical or earth plane. What one thinks continually, they become; what one cherishes in their heart and mind they make

a part of the pulsation of their heart, through their own blood cells, and build in their own physical, that which its spirit and soul must feed upon, and that with which it will be possessed, when it passes into the realm for which the other experiences of what it has gained here in the physical plane, must be used. The attributes of the soul and spirit are as many, and as many more, as the attributes of the physical and mental mind." Cayce (3744-

4) It is not hard for an individual to awaken them if he will seek diligently. As has been pointed out, only the will may keep an entity from a realization of the Divine Unity, for, "Each, in itself, through its development known through the ages, as called from the earth plane, builds that which is manifest upon the earth. With each development, that force, known upon this plane as Will, is given to man over and above all creation; that force that may separate itself from its Maker, for with the will man may either

adhere to or contradict Divine law - these immutable laws, as are set between the Creator and the created." Cayce (3744-4)

"Hence, man, the crowning of all manifestations in a material world - a causation world - finds self as the cause and the product of that he (man), with those abilities given, has been able to produce, or demonstrate, or manifest, from that he (the soul) has gained, does gain, in the transition, the change, the going toward that (being of that) from which he came." Cayce (5753-1)



"Like begets like. As he sows, so shall he reap. As a man thinketh in his heart, so is he. These are but trite statements to most of us, but let each of us turn within our own beings for the law pertaining to these trite sayings, until understanding arises. Then, there will come a consciousness of the infinite moving upon and in the inner self. So does life, in all its force, begin in the earth from one source. It is the moving of the infinite upon the negative force of life of the finite in the material that can bring a consciousness of the oneness even in seemingly diversified manifested force." Cayce (262-52)

## Beginning At The Beginning

All vibrations or sounds possess a dual nature manifesting in a triple configuration. This nature is fundamentally a difference in modes or manners of expression. A sound vibration is composed of three basic modes or types of vibration. These being the longitudinal, the transverse and the circular or Raleigh wave. These three modes have motions 90 degrees to each other. The longitudinal travels out and back from the sound source. The transverse or shear wave travels back and forth side-ways from the first. The circular or Raleigh wave travels in a circular pattern much like a vortex as in a tornado or hurricane. It can also be seen from basic vibration physics that a vibration also possesses three qualities of radiating, contracting and neutral. These latter have to do with the particular *phase* and *quality* whereas the former have to do with pure physical motion. More will be given on this triple aspect of waves later.

*"The human ear cannot detect the triple chord of any vibration, or sounding note, but every sound that is induced of any range, high or low, is governed by the same laws, as regards triple action of such, that govern every sympathetic flow in Nature. Were it not for these triple vibratory conditions, change of polarity could never be effected, and consequently there could be no rotation. Thus the compounding of the triple triple, to pro-*

*duce the effect, would give a vibration in multiplication reaching the ninth, in order to induce subservience, the enumeration of which would be folly to undertake, as the result would be a string nearly a mile in length to denote it." Keely*

There are well recognized (but not often used) healing properties in gold, silver and platinum metals<sup>1</sup> and their vibrations. Perhaps it would be more accurate to say the *harmonizing* activities of the *vibrations* of these metals are the healing agents. For it is these vibrations in their activities that brings about the condition known as health or harmony in and between the body parts and functions. The metals themselves are not the harmonizing agents. And it is not the physical body alone to be treated with physical metals only that creates a state of harmony and hence health. As will be shown, the human organism is composed of a physical, a mental and a spiritual structure or organization. These three forms\* or sometimes independently considered *systems* are integrated into a single unit yet operate more or less independently of each other.

An analogy is appropriate here: just as three musicians may play independently of each other as they play their various instruments in a trio they nevertheless operate sympathetically with each other in such a way that what each does independently is done *concordantly* to or in harmony

### Triads - Tri-tone Chords



The material of which music is made is tone, in recognizable, orderly chord groups. The simplest chord group is the Triad, or three tone chord. The Triad always consists of fundamental (root), third and fifth. A Triad may be constructed upon every degree of the scale, Major and Minor. Upon the Major Scale tones the Triads of the key, in C Major, are shown above. These seven Triads occur in exactly the same form in every Major Key. There are three different Triad groupings in the above:  
Major Triad: Major 3rd and Perfect 5th on the 1st, 4th and 5th degrees.  
Minor Triad: Minor 3rd and Perfect 5th on the 2nd, 3rd and 6th degrees.  
Diminished Triad: Minor 3rd and Diminished 5th on the 7th degree.

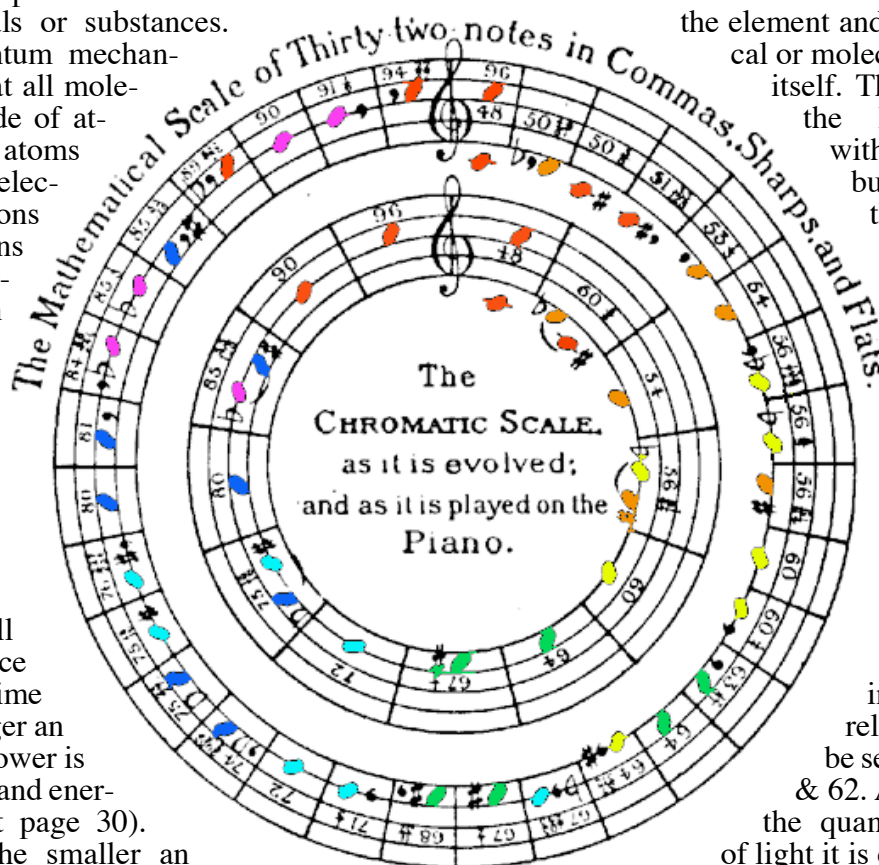


with the others. Just so the three identified sub-systems of the human organism all play beautiful music to one another (each in their own sphere of activity) thus establishing and preserving the peace of harmony or health. Lack of complete sympathy of action means dis-chord or disease.

Harmony and discord can also exist between supposedly inorganic substances in the body. This is because it is not the metals or substances that create the vibrations but just the reverse. It is the inner component vibrations that are the metals or substances.

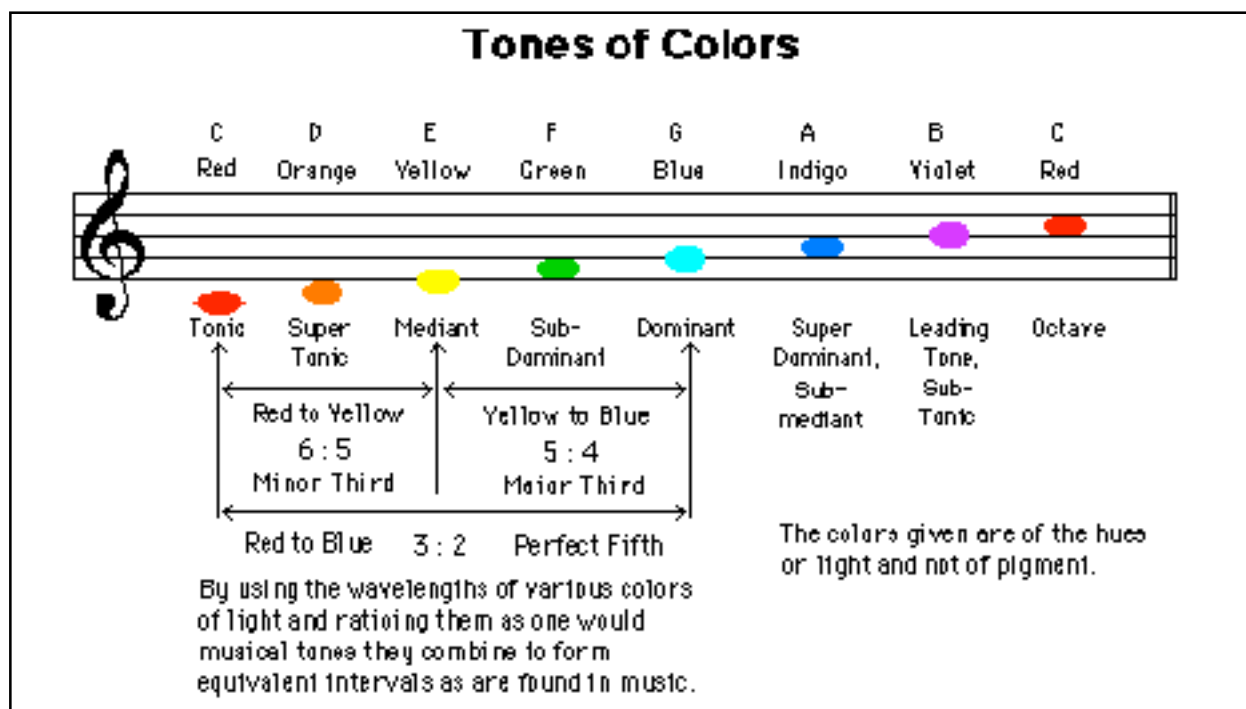
Modern quantum mechanics asserts that all molecules are made of atoms and all atoms are made of electrons, protons and neutrons and these particles in turn are made of photons, leptons, etc. which in turn are made of quarks, etc. A simple principle of vibration physics well known since Pythagoras' time is that the larger an object is the lower is its frequency and energy (see chart page 30). Conversely the smaller an object the higher is its frequency and energy. Therefore the low frequency molecule contains atoms of slightly higher frequencies. These atoms are made of electrons, etc. of yet higher frequencies. These in their turn are composed of even smaller particles (photons or light particles) of still higher frequencies. This process of nested particles appearing like a set of Russian dolls goes on as far as we know to infinity. The enclosed particles get smaller and smaller as their energy content gets higher and higher - *infinitely smaller and greater*.

It is obvious that the human body is composed of molecules. The body then is ultimately made of atoms, electrons, photons, quarks and the whole host of elementary particles. These smaller and smaller particles have higher and higher vibrations. The frequencies of which reach from the lowest molecular range up through the spirit and mental realms of vibration onto the infinitely high (see charts pages 6-8). It is these higher and more subtle vibrations of the sub-atomic or elementary particles making up the atoms of these metals and our bodies. These higher *chords of vibration* are the activating property of the element and not the physical or molecular substance itself. There cannot be the lower realms without the higher but there can be the higher without the lower. In other words, since molecules are, at a given point, composed of photons the photons can not be composed of molecules. A graphic showing these inter-relationships can be seen on pages 61 & 62. A photon being the quantized particles of light it is easy to see that all molecules really are composed of light whereas photons are not made of gross matter as we know it but instead are made of something even more finer and more powerful than light itself.



**Yes, Virginia, it may be correctly stated that we really are LIGHT BEINGS!**

From the chart on page 6 we can see that all that there is is related to all else. The lower physical realms of gross molecular matter are directly derived from the higher and finer realms of light



and Mind. There is a commonality between these seemingly different realms of the physical and the mental or spiritual. It will be shown that these two realms or planes are simply two of many planes and are very intimately connected. The connecting link from the mundane to the divine realms or planes or dimensions will be seen to be the principles that make music what it is.

*"As indicated, music is what appeals to the latent and the creative force within the entity. For music alone may span the sphere from the sublime to the ridiculous -- from the finite to the infinite -- from the spheres of activity to realms of the divine. Music is like color, like tone, in that it is a destructive or a creative force -- depending upon that which it appeals, in its influence upon individuals." Cayce (3509-1)*

At the heart of all matter and energy lies *vibration*. Everything is vibration and vibration is everything. If we are to arrive at a more complete understanding *that would be useable* of these metals and their properties as they operate within the body, mind and spirit it will be necessary to expand the current theories and paradigms of what makes things tick. This is not difficult but it is intricate. A lay person could read the following material and derive a good working understanding of the points presented while avoiding the more technical laws and quotes. However, to more fully comprehend that which is given of

the functional elements a more careful reading is required.

*"Only those who seek become aware of that which IS the motive force of any condition, phase or stage of development in the spiritual, the mental or the material." Cayce (2012-1)*

## The Alchemical Quintessence

These metals, gold, silver and platinum (as do all other elements) have some important inner characteristics or essences or personality. No two metals have the same inner 'personalities' as it were. But it is not the 'personality' of a metal that performs its functions. It is the inner essence which is in reality the vibratory chord or signature of its mass which is that which creates the 'personality'. This is usually referred to as the *chord of mass*. Sometimes this is referred to as the spectral or *vibration signature*. When considering a number of discrete vibrations at once they may be viewed as a chord just as several musical notes considered as a unit are handled. The *chord of mass* of these metals can be seen in the chart on pages 34-35.

Generally speaking when a person refers to the vibration or note of a metal (or anything else) they are referring to the keynote of the metal or object. The keynote is an important and valid as-



pect of the vibration pattern but is only a portion of the issue. The truth is the metal has a plethora of vibrations, all of which are important, and are all in tune with a harmonic or partial of its fundamental or keynote vibration. The keynote is the tone (fundamental to the chord or scale) in which a tune is written and played. All notes to the chord or scale are a harmonic (arithmetic multiple) of this keynote. The circle of keys and notes on this page show all the musical keys and their respective notes. The keynotes of each key are the hollowed notes within each measure. The Law of Harmonic Pitch governs the development of properly related pitches of notes making up a musical scale. The full scale of chromatic notes as played on the piano are given on page 6.

Another factor is that of the keynote. Each of these elements has an audible or discernible keynote tone which is a *result* of the higher tones or vibrations of the elementary particles making up the element. This process of a high frequency cascading down to lower frequencies is synonymous with the demodulation ideas of radio science. Also it bears mention here that the One Substance or One Force of the universe is undifferentiated and is generally referred to as White Light. This White Light or harmonically balanced range of frequencies is de-modulated when it strikes a lower frequency usually from a molecular or atom and can then be seen as colors in a rainbow. The single tone of the Undifferentiated Light is refracted into a plethora of colors or tones of color just as a keynote or fundamental of music is refracted into *notes of a scale*. This same principle holds true for atoms, molecules, the human body or whatever. The keynote sets the tone (as in the Dominant - which is another musical term for the keynote) and all other segments or components of the whole fall into step or are rejected or ejected by reason of its discordant tones. Discordance means having pitches not harmonic to the chord of the whole or mass. These *discords* will form *beat frequencies* which are considered extremely harsh and destructive to the integrity of the whole.

Law of Harmonic Pitch - "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." Keely, 1894

These harmonic tones are then the notes of our diatonic or normal musical scale. When tones are developed that are not harmonic but form discords with the keynote or fundamental there develops a different class of scale or series of tones. These would be considered enharmonic and anathema to harmony or concordance of tone. There can exist states that are not *fully harmonic* or fully enharmonic. There are degrees of harmony and discord just as there are degrees of being healthy or being just a little sickly and not totally dead. There can never be a state of absolute harmony or absolute discord. The first would cause a coalescence back into One substance from which it would never reemerge. The second would cause total chaos which cannot be. Neither state could exist alone just as no coin can exist with only one side.

Although these laws discovered and developed by Keely in the late 1800s are a bit cryptic and difficult to grasp they are essential for the ideas and concepts that follow. If it is true the human body is a collection of particles which are ultimately centralized vibrations it is imperative to understand the nature of vibration *in all its forms*. See Appendix V for definitions used in these laws.

Law of Harmonic Vibrations - "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 atomole." Keely, 1894

If the relationship is not harmonic discord will result *within the chord of the notes*. This is born out by the following law which describes how life and nature moves perpetually in cycles and is never still and static.

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." Keely, 1894

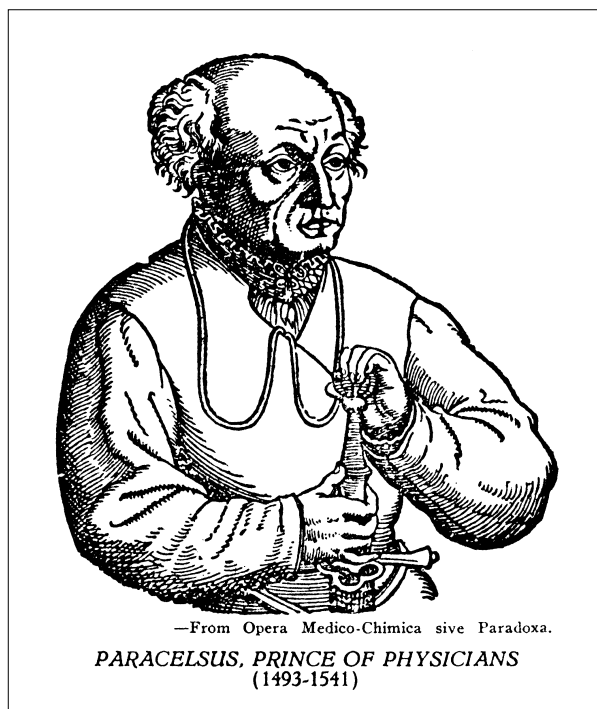
As previously stated if a state of total harmony were arrived at all motion would cease immedi-

ately and none would occur then or ever to disturb this harmony. Life is a state of activity and experience. It must, by necessity have motion. It is discord to the harmonies that causes motion. This concept of discord to the harmony is the ancient concept of the Devil coming in and stirring things up all the time. It is through these developing and ever changing experiences that man learns and grows.

*"For as is generally accepted, and as is in greater part true, the experiences of a soul-entity in materiality, in the three-dimensional sphere of activity, are as lessons or studies in that particular phase of the entity's or soul's development."*  
Cayce (294-189)

While the keynote is absolutely important to the development of a chord or scale it is not the whole story by any means and failure to consider the "rest of the story" will inevitably result in discord, chaos and noise. In the context of the human organism failure to maintain harmony of *all the parts simultaneously* results in sickness, disease and even death. Small wonder then that *Music Therapy* works such wonders of stress relief and attitude modifications. Music Therapy is the art and science of applying the principles of music to the human body, mind and spirit. It works!

The chart on page 9 shows the number and accuracy of the wave lengths from the spectra of each metal as compared to each other and their equivalent musical intervals. It can be seen from this chart that there exists a great deal of harmony in the vibrations in these metals. Similar

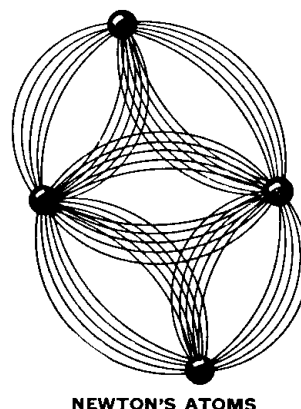
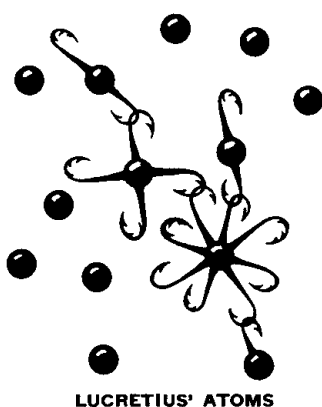


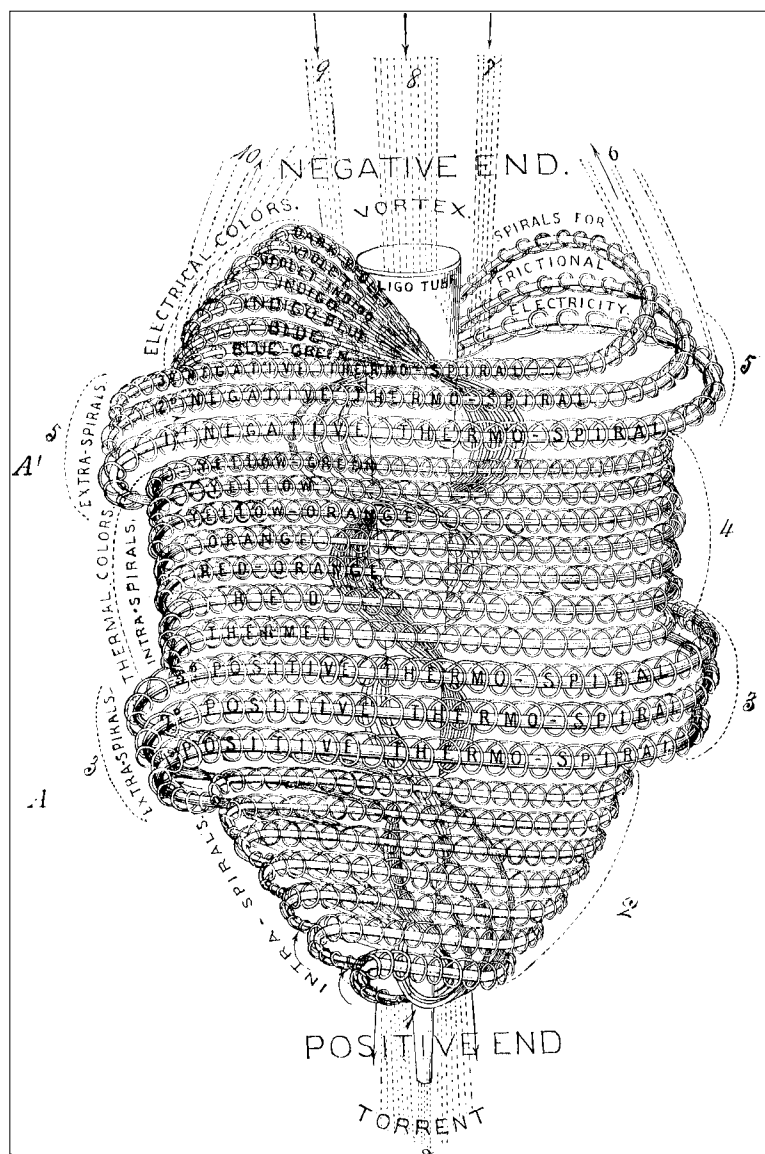
charts were done for the other elements and from all that has been observed it is safe to say

**it really is a  
MUSICAL UNIVERSE!**

The charts on page 9 and 29 show the comparison of just a few (chosen at random) vibrations from the spectra of these three metals. The degree of harmony found between them is indeed impressive. *These charts show there is little if any chaos in the universe.* There is harmony and

### ATOMISM: ANCIENT AND MODERN





there is discord which periodically interchange with each other. Even the periodical state of discord is in itself within a rhythmic pulsing of harmony in action. Review the Law of Cycles already given. Inherent in even the most harmonious chord is the discordant seed of its own destruction. This 'seed' is part of the hidden quintessential elements of the chords of the atoms and molecules.

*"Music is the mediator between the spiritual and the sensual life." Beethoven*

## Æther - The 5th State - Exists

It is this inner (so-called spiritual) essence or vibratory chord of mass that lies at the heart of the mystery of the many healing miracles witnessed throughout the ages. The ancient philosophers and alchemists knew of these ideas and used them in

their work. The seemingly miraculous healings of Paracelsus<sup>2</sup> during the great plague (1493-1541) in Europe is legendary. What did he use? He used a colloid of silver/gold - one of the most powerful antibiotic substances known to mankind. Paracelsus knew of something yet more important - being an alchemist he was aware of the "Quintessence", the "Fifth Element" or the "Ether" as being another state of matter above and beyond the four states or phases of matter conventionally recognized (see chart page 6). To a scientist (*he who seeks to know*) of his time, Paracelsus had limited knowledge of molecular and atomic morphology. This "father of modern chemistry" studied the works of the great Greek philosophers who in turn got their knowledge from Egypt. Egypt used to be called "Chem" and it is from this name that the term alchemy was derived. Some of the Greek philosophers postulated ideas of tiny particles and also of "essences" or "influences" such as the phlogiston and æther concepts all of which were to help explain the subtler effects of substances and events. Paracelsus was aware of these subtler and hidden essences of the elements and used his knowledge of these "occult" or hidden aspects to bring aid and assistance to his generation.

From the chart on page 6 we can see that as part of a broader classification of matter and energy we fit into the picture that which was referred to as ether. We can also see how this concept of the ether can dove-tail with conventional quantum mechanics and other forms of 'accepted' scientific research.

To the unfounded and uninformed rumor that the famous Michelson and Morley experiment "proved" the non-existence of the ether the

following quote is from Michaelson's own thoughts and mouth:

*"Suppose that an ether strain corresponds to an electric charge, an ether displacement to the electric current, these ether vortices to the atoms - if we continue these suppositions, we arrive at what may be one of the grandest generalizations of modern science - of which we are tempted to say it ought to be true even if it is not - namely, that all phenomena of the physical universe are only different manifestations of the various modes of motion of one all-prevailing ether."*  
Michaelson

The ether is not a thing of and unto itself. It is that collection of elementary particles just beyond the grasp of science. It is the fifth phase or state of matter as shown on the chart on page 6. As science becomes more and more aware of the *nestled quality of particles*, the more it must admit of the existence of this ether - call it by whatever name(s) it desires. See Appendix I for a rare collection of many scientific viewpoints concerning this mysterious ether. Still to validate the idea that *something does exist regardless of its name*, even Albert Einstein had to bite the etheric bullet:

*"More careful reflection teaches us, however, that the special theory of relativity does not compel us to deny ether. We may assume the existence of an ether; only we must give up ascribing a definite state of motion to it, i.e., we must by abstraction take from it the last mechanical characteristic which Lorentz had still left it... [There] is a weighty argument to be advanced in favour of the ether hypothesis. To deny ether is ultimately to assume that empty space has no physical qualities whatever. The fundamental facts of mechanics do not harmonize with this view... According to the general theory of relativity space without ether is unthinkable; for in such space there would not only be no propagation of light, but also no possibility of existence for standards of space and time (measuring-rods and -clocks), nor therefore any space-time intervals in the physical sense."* Einstein

The ether was considered to be a vaporous fluid that possessed certain properties. First it was a liquid with liquid-like properties. It could dissolve pretty near anything. It permeated all other substances. Believe it or not there are a plethora of elementary particles known to science that fit these properties. These were only theorized to exist in the past several decades and were only guessed at by the earlier scientists. Ions are now

known to be responsible for a great number of chemical and other physical effects. *Microclusters* are now being more and more understood and are being shown to have nearly miraculous or previously unheard of properties (including that of a liquid or fluid). *Colloids* are a solution of a solid made into extremely fine particles suspended in a liquid. These colloids have been known for centuries (as in Paracelsus' cures) and are well recognized to possess unique, interesting and powerful properties. It is believed that somewhere in this realm of fine particles or clusters of atoms or small molecules or the generally considered collection of all of these is the Etheric Vapour of olden times. They simply lacked the scientific ability and instrumentation we now have to more fully investigate this twilight zone of substance which lies between solid matter and plasma gases.

Building on some of these earlier ideas the alchemists sought to explain the meanings of life in vast and comprehensive philosophies of nature and science and religions in an effort to improve themselves and their societies. Contrary to [un]popular mythology they were not fanatically concerned with discovering the "Philosopher's Stone" for the sole purpose of making gold although this was an important part of their work. Indeed, the gold they sought was a substance possessing a triple significance of a *physical* gold, a *mental* gold and a *spiritual* gold. The concept of triple levels or triple realms or triple essences is ABSOLUTELY FUNDAMENTAL to this discussion. A quote from Professor Franz Hartmann, noted scientist and philosopher of the past century will clarify this:

*Alchemy is a science by which things may not only be decomposed and recombined (as is done in chemistry), but by which their essential nature may be changed and raised higher, or be transmuted into each other. Chemistry deals with dead matter alone, but Alchemy uses life as a factor. Everything is of a threefold nature, of which its material and objective form is its lowest manifestation. There is, for instance, immaterial spiritual gold, ethereal fluid and invisible astral gold, and the solid visible, material and earthly gold. The two former are, so to say, the spirit and soul of the latter, and by employing the spiritual powers of the soul we may induce changes in them that may become visible in the objective state. Certain external manipulations may assist the powers of the soul in their work; but without the possession of the latter the former will be perfectly useless. Alchemical processes can there-*



fore only be successfully undertaken by one who is an Alchemist by birth or education. Everything being of a threefold nature, there is a threefold aspect of Alchemy. In its higher aspect it teaches the regeneration of the spiritual man, the purification of the mind, thought, and will, the ennobling of all the faculties of the soul. In its lowest aspect it deals with physical substances, and as it leaves the realm of the living soul, and steps down to dead matter, it ends in the science of modern chemistry of the present day.<sup>3</sup>

Since time immemorial gold, silver and later platinum have been known to possess certain and unique properties. After all, it is not for nothing they are considered as precious metals and sought after for their monetary values as well. The ancient Egyptians fabricated *electrum* an alloy of these metals which 'modern' metallurgy has been unable to reproduce. Is this because the Egyptians recognized these inner properties where 'modern' science ignores them? Perhaps this is so and just maybe this inner knowledge had more to it than science is willing to admit. It was to Egypt the ancient Greek philosophers went to acquire higher learning. What knowledge did these ancients possess that has somehow been dropped from our learning and libraries?

### Is Metal Just Metal?

The triune aspects of these metals were not only recognized by the astute alchemists but were also employed in the fabrication of instruments and substances of diverse purposes. One such substance was *Electrum Magicum*, used in the preparation of the so-called *Magic Mirror*, was created in an elaborate process which took into account the subtle yet well recognized influences from the various planets and their relative positions.

*Electrum Magicum: The electrum magicum is prepared as follows: Take ten parts of pure gold, ten of silver, five of copper, two of tin, two of lead, one part of powdered iron, and five of mercury. All these metals must be pure. Now wait for the hour when the planets Saturn and Mercury come into conjunction, and have all your preparations ready for that occasion; have the fire, the crucible, the mercury and the lead ready, so that there will be no delay when the time of the conjunction arrives, for the work must be done during the moments of the conjunction. As soon as this takes place melt the lead and add the mercury, and let it cool. After this has been done, wait for a conjunction of Jupiter with Saturn and Mercury,*

*melt the compound of lead and mercury in a crucible, and in another crucible the tin, and pour the two metals together at the moment of such conjunction. You must now wait until a conjunction of the sun and either one or both of the above named planets takes place, and then add the gold to the compound after melting it previously. At a time of a conjunction of the moon and the sun, Saturn or Mercury, the silver is added likewise, and at a time of a conjunction of Venus with one of the above named planets the copper is added. Finally, at a time of such a conjunction with Mars, the whole is completed by the addition of the powdered iron. Stir the fluid mass with a dry rod of witch-hazel, and let it cool. (All the above named conjunctions take place in our solar system in the course of thirteen successive months, but the directions may refer to conjunctions of principles contained in the Microcosm of man.)<sup>3</sup>*

These metals were alloyed by another scientist, John Ernst Worrell Keely (1837-1898), into forms of wire he used for conducting vibrations free of interference. He maintained that these were the only metals that would do this and when properly fabricated would be in essence a *super-conducting wire at room temperature*. He used these wires for another utility and this was in conjunction with other wires and devices designed and used for multiplying frequencies into the highest realms. A brief statement by Keely reveals some of the simple yet complex nature of his work with these wires.

*"There is no medium used in vibratory research so unerringly exact in effecting sympathetic negative attraction as the Trexar. This combination as accurately indicates the action of the earth's sympathetic envelope in its triple focalized action towards the earth's neutral center, as the magnet unfailingly indicates the dominant electric flow.*

*Differential molecular volume is required to equate differentiation of sympathetic flows. This condition is satisfied by the Trexar. Two differing molecular densities, represented by two different mediums, make possible the harmonious adjustment of the thirds.*

*When an introductory transmissive sympathetic chord (say B flat) is conducted along a sectional transmitting wire the molecular triple (intermolecule) is carried along by induced differentiation and it in turn excites high sympathy with the polar terrestrial stream which, being triune in character, requires a triune differential sympathizer of the same ratio of frequency. This is satisfied by the Trexar, consisting of sections of silver the harmonic, gold the enharmonic and platinum the dominant. When the Trexar is properly sensitized by any chord on the dominant, molecular differentiation is induced, the phe-*

## Law of One

This law can be divided into three separate parts:

**Law of Assimilation:** Every individualized object assimilates itself to all other objects.

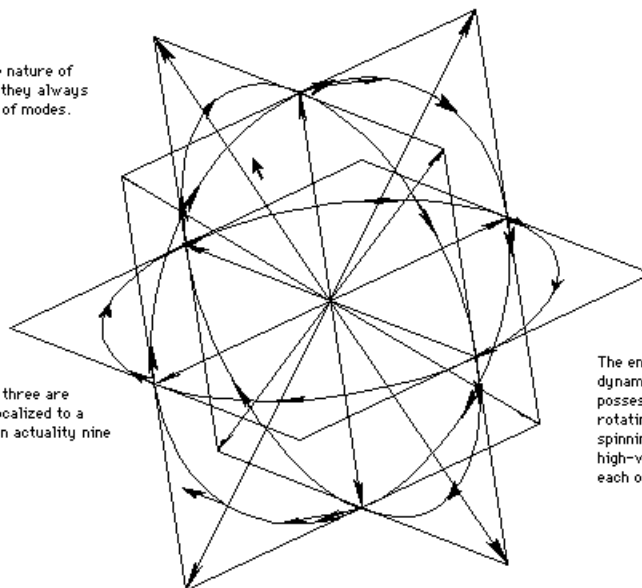
**Law of Individualization:** Every object tends to assimilate all other objects to itself.

**Law of Dominant:** Every such object is such by virtue of the higher or dominant force which controls the previous two tendencies.

Applying these basic laws to an explanation of the universe, as it is brought to human cognition, all manifestations of force may be treated as modes of vibrations. The essential differences give rise to three modes of vibration: Radiating, Focalizing and Dominant.

Because of the triune nature of the vibratory modes they always manifest as a triplet of modes.

Therefore when three are aggregated or focalized to a point there are in actuality nine modes.



Triple Triune Modes

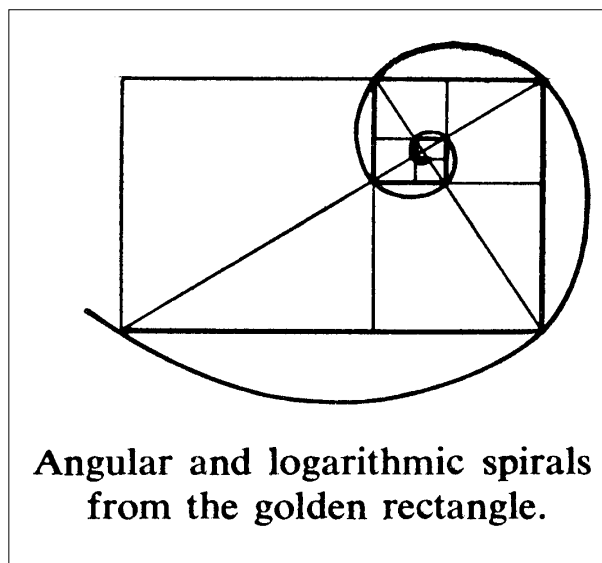
The end result is a dynamic sphere possessing three rotating shells spinning at high-velocity about each other.

*nomena approaching magnetism is effect, but without a trace of true magnetism being present." Keely*

It is possible to glimpse the importance these metals play or will have in future technology. Conventional technology has marvelous signal, pulse and waveform generators to create and utilize extremely high rates of vibration in radio, microwave and various forms of atomic and nuclear research. However, nothing comes even close to the frequencies Keely developed over 100 years ago with these wires he fashioned of gold, silver and platinum. The following quote, though a bit difficult to decipher, shows the marvelous facility he had in his work.

*"I will try to make comprehensible the computation of the number (even to infinity) of the corpuscular oscillations, induced on the introductory ninths, over their normal standard. The molecules of all visible masses, when not influenced by surrounding acoustic vibratory impulses, move at a rate of 20,000 oscillations per second, one third of their diameter. We have before us one of these masses; either a silver dollar, a pound weight, a horse-shoe, or any other metallic medium, which I associate to one of my nodal transmitters, the other end of which is attached to the clustered thirds (or third octave) of my focalizing neutral concentrator. Another transmitter, of gold, silver and platina sections, is attached to the sixth cluster of same disk, the other end of which is connected to resonating sphere*

*on my compound instrument: all of which must be brought to a state of complete rest. Then, a slight tap, with a vulcanite rubber hammer on the chladna resonating disk, will accelerate the 20,000 molecular oscillations to 180,000 per second, an increase of nine times the normal number. The nine nodes each touching the extreme end, next the mass operated upon, in this arrangement; silver, gold, platina, make up the nine. When I associate the seventh, I start with gold and end with platina; always on the triplets. Silver represents the lowest introductory third, gold the next, and platina the highest. If we start with a gold node, the multiplication on oscillation will be nine times nine, or 81 times the 20,000; which is 1,620,000 per second. Each node represents one wave length of a certain number of vibrations when shifted along the transmitter, over the section representing its opposite metal. The shifting of the gold one over the silver extreme section will hold the corpuscular range of the mass velocity at 1,620,000 per second: the introductory chord being set at B, third octave. It requires an accelerated oscillation on the molecular of a soft steel mass, at that chord, of a transmissive multiplication of the full nine, in order to induce a rotary action on the neutral centre indicator of focalizing disk; which by computation, means, per second, 156,057,552,198,220,000 corpuscular intermittent oscillations to move the disk 110 revolutions per second. This only represents the multiplication on the first nodal dissociator of the ninth. The second transition, on same, would mean this number multiplied by itself, and the residue of each multiplication by itself 81 times progressively. This throws us infinitely far beyond com-*



*putation, leaving us only on the second of the full ninth, towards reaching the sympathetic corpuscular velocity attending the high luminiferous. I have induced rotation up to 123 revolutions per second on a neutral indicator that required billions of vibrations per second to accomplish; but even this vibration represents only a minute fraction of the conditions governing the sympathetic vitality which exists in the far luminous centres."* (Keely, pre 1893)

It is important to see that these metals are somehow closely associated with the highest conceivable realms of vibration. These realms are held to be the ranges of vibrations in which are found those of the Mind itself. The chart on page 30 arranges the states of matter and energy into discrete levels, realms or dimensions. This chart is a snap-shot of how the universe is structured in-so-far as we can now picture it. The ideas contained therein do not conflict with so-called modern cosmologies or ontologies - it simply expands the view to encompass the older ideas and shows a comprehensive scheme, plan or form. This chart illustrates that all that there is is connected to all else. The universe is one universe and all that is in it is all that there is. This leads us directly into the one great law called the Law of One or the Law of Assimilation.

## Law of One

*The Law is: That every individualized object tends to assimilate itself to itself, in successive moments of its existence, and all objects to assimilate one another.* (McVicar)<sup>32</sup>

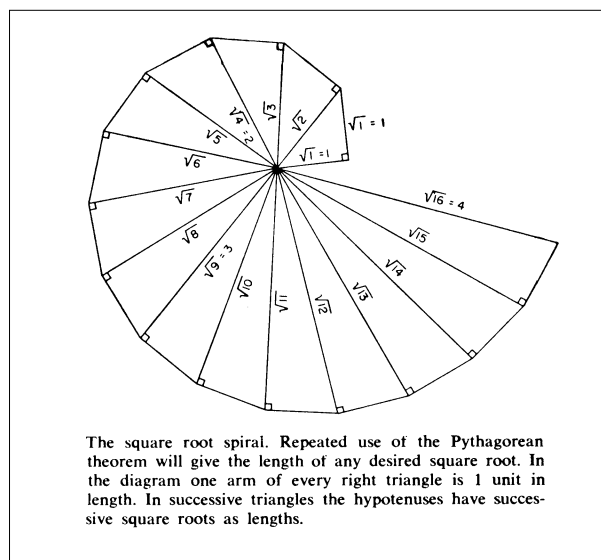
This is the law of the entire substance of divine Mind. This is the law of the soul of things. This is the law of love. It is the law of the One-ness of the universe. All that is, is One. Another way of stating this concept is through the Law of Assimilation. According to some who have studied this subject this law is the first and foremost law of the universe to which all other laws are subservient. A careful reading of this law reveals that it is describing what could be termed the Law of Love.

A natural consequence of this Law is:

"Everything that is, is of everything else that is. Nothing is of itself alone. All created things are indissolubly united." (Pond, 1992)

The basic idea is that all that there is is ultimately composed of vibrations in one state or another. It can therefore be postulated that there is nothing else other than vibration. Likewise, this being true, and all vibrations are intimately associative with all other vibrations of like frequency then all is indeed connected on levels of tones or vibration rates far in excess of anything science can measure although it can compute such connections. This connection is through the higher self-generated harmonics and partials.

As a natural and necessary "second half" of the male-type (explosive) forces in nature there is the "female force" or female principle or that which attracts just as there is that which pushes or repels.



The square root spiral. Repeated use of the Pythagorean theorem will give the length of any desired square root. In the diagram one arm of every right triangle is 1 unit in length. In successive triangles the hypotenuses have successive square roots as lengths.

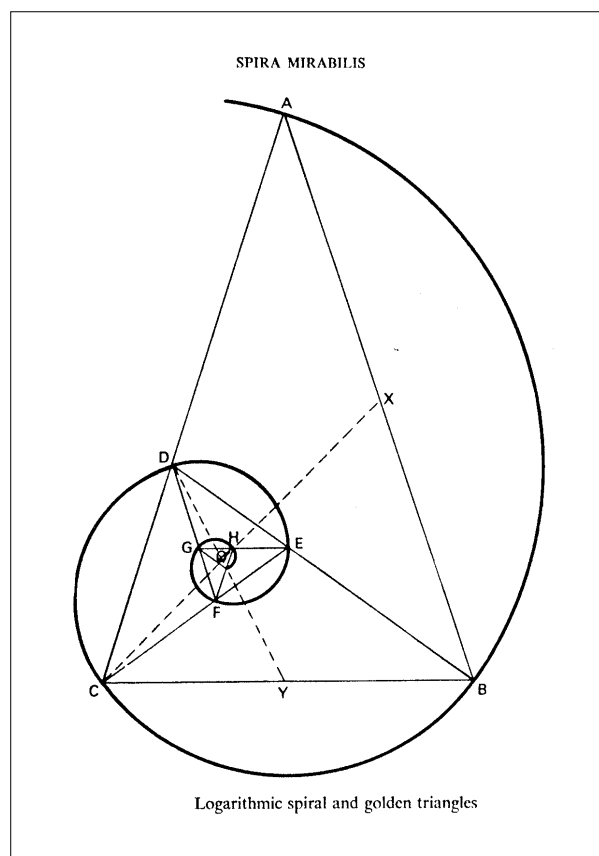
**If the so-called Big Bang Theory is correct then there has to be its opposite - a Big Gathering or Big Implosion which will bring it all back together again to make ready for the next cycle of creation.**

This idea of polarity existing throughout nature is echoed in all ancient religions and philosophies. Adam and Eve, day and night, Zoroastrianism, Yin/Yang, the in and out breathes of Brahma are but a few of those ideations.

This basic of all ideas reveals itself in our own daily lives as we breathe in and out for air, we eat and eliminate solid and liquid food stuffs, we have an in-come and an out-go of cash and property and even fall *in* love and fall *out* of favor. Indeed so important and substantial is this more and less ignored basic principle that neither half would or could exist without the other to counter-balance it. There can be no up without down, nor black without white, no good without evil, no male without female and no in without an out. The two halves, though different or opposite, are really essential compliments of the other. Just as there cannot be a one-sided coin there can be no pole or phase without the other.

## Law of Assimilation

"In compiling from his (Keely's) writings, such are selected as seem to be the best, toward elucidating the mysteries which lie in the operation of the laws governing the universal ether, so far as his hypothesis carried him. If matter without form preceded the creation of vitality, "it is only when the principle of life had been given," says Charnig-non, "that the intrinsic properties of atoms were compelled, by the law of affinities, to form individualities; which, from that moment, becoming the center of action, were enabled to act as modifying causes of the principle of life, and assimilate themselves to it, to start with, that it will be well to remember; for, as in the hypothesis of MacVicar and the demonstrations of Keely, the law of assimilation is made the pivot upon which all turns, "providing at once for mind and for matter, and placing them in a scientific relationship to one another." This law MacVicar calls the "Cosmical Law," because to it alone, ever operating under the eye and fulfilling the design of the great Creator who is always and in all places imminent to His creation, an appeal is ever made. By this law a far greater number of the phenomena of nature and the laboratory can be explained than have been otherwise explained by scores of laws which are frankly admitted to be empirical. Surely this is no slight claim for this law to be studied, with a view



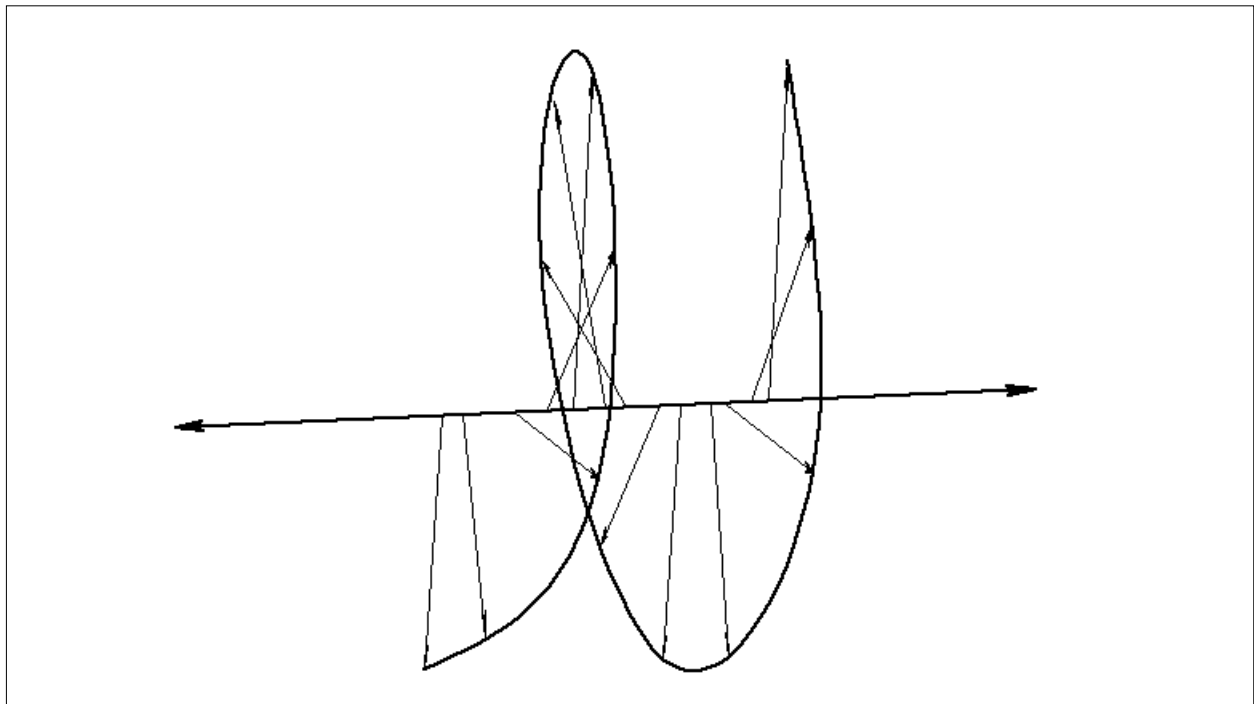
to its acceptance or rejection. To repeat, this law is to the effect that every individualized object tends to assimilate itself to itself, in successive moments of its existence (see PLANCK'S CONSTANT), and all objects to assimilate one another. The ground of it is, that the simple and pure substance of creation, has for its special function to manifest the Creator; and consequently to assimilate itself to His will and attributes, in so far as the finite can assimilate itself to the Infinite. Hence it is, in its own nature, wholly plastic or devoid of the fixed innate properties, and wholly assimilative, both with respect to its own portions or parts and to surrounding objects, as well as to its position in space, and, in so far as it is capable, to the mind of the Creator. Thus, there immediately awake, in the material elements, individuality and the properties of sphericity, elasticity, and inertia, along with a tendency to be assimilated as to place, or, as it is commonly called, reciprocal attraction. Hence, in the first place, the construction in the ether, or realm of light, of groups of ethereal elements, generating material elements. Hence, secondly, a tendency in the material elements, when previously distributed in space, to form into groups, in which their ethereal atmospheres may become completely confluent; while their material nuclei, being possessed of a more powerful individuality than ethereal elements, come into juxtaposition merely, thus constituting molecules. By legitimate deductions from cosmical law, the forms and structures of these molecules must always be as symmetrical as the reaction of their own constituent particles, and that of their surroundings, will allow. The law of assimilation gives the same results of mathematics in determining the forms of

*systems of equal, and similar, elastic and reciprocally attractive spherical forces, or centers of force, when they have settled in a state of equilibrium; proving these forms to be symmetrical in the highest degree. Here, however, MacVicar and Keely differ, in hypothesis, as to the structure of the ultimate element; but in which everything that is cognizable has its own place, is on a solid basis, is harmonious with its surroundings, and is explained and justified by them: - raising chemistry to the level and bringing it within the sphere of mechanics; investing its objects, at the same time, with all the distinctness of the objects of other branches of natural science." See Chapter 2 of<sup>11</sup>*

Before the turn of the century these things were well known and explored by science and philosophy. Sometime during or shortly after 1885 or thereabouts these subjects began disappearing from textbooks and schools and from popular literature. Science was truly "getting its act together" during this period and would have liberated man from his arduous slavery to earning a living. However there was a different idea among those who controlled banking and industry. With words to the effect that "if we can't put a meter on it we won't do it" J. P. Morgan and his ilk slammed the door shut on these fertile branches of research and development. Even here in the sell-out of society for power and control we can see quite clearly the role this Law of Assimilation plays in man's affairs - greed - the taking or assimilation of all else to self. If this process is done for the satisfaction of self and

self's desires it tends to be destructive. If, on the other hand, that which is brought to self is for the purpose of reprocessing it for returning it back to its source there will be great multiplication or growth.

This reprocessing is no different than the mathematical formula and philosophy employed in the so-called Chaos Theory's use of fractals. The process used is not unlike the Fibonacci computations and in the most basic form develops into the spirals as pictured above. A more complex fractal is a mathematical procedure that (1) takes in a value, (2) changes it by some form or degree and then (3) sends the new value back out. This three step process is called an iteration. It takes a computer many thousands or millions of iterations to create the beautiful images we see of this process. There is growth evident in these fractals images. If the values were taken in and nothing done to them for a returning to expression - there is death, pain and suffering. This three step procedure is the Law of One in practice and activity.



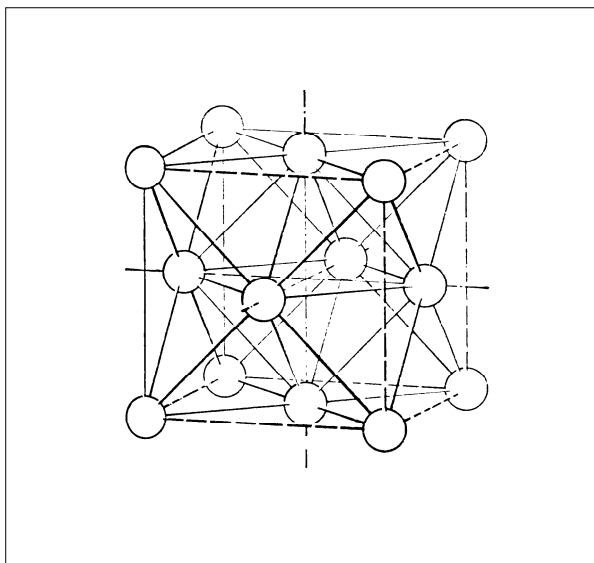
## Noble Metals

Gold, silver and platinum are members of a family of metals referred to as **Noble metal**: [METALLURGY]; *A metal, or alloy, such as gold, silver, or platinum having high resistance to corrosion and oxidation; used in the construction of thin-film circuits, metal-film resistors, and other metal-film devices. Also used in medicines, jewelry and any number of other industrial and commercial uses.*

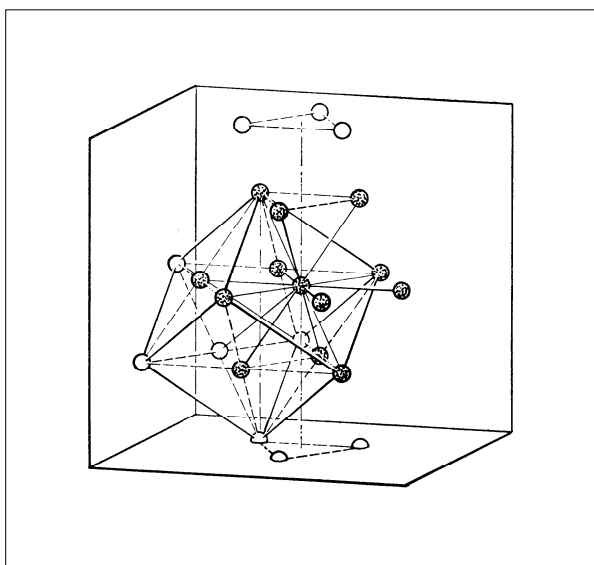
## Gold (Au)

Gold is one of the first known of all metals. Even cave man knew of gold while ornaments of the metal are being discovered in ancient Egyptian tombs. In Hindu doctrine, gold is the 'mineral light'. The Latin word for gold, *aurum*, is of classic origin, being derived from the Hebrew word *zohov*, which meant the color of fire or from *aor* meaning light. It is interesting to note that in many of the ancient languages the word distinguishing gold is the same word used to signify yellow and even things of a spiritual nature such as the *aura*. The alchemists likened gold to the Sun and considered the metal as a male element. Gold is the image of solar light and hence of the divine intelligence. Consequently, gold is symbolic of all that is superior. The Sun is the "greater light to rule the day" of Genesis. Highly valued due to its scarceness, monetary, health care and industrial uses and its physical beauty. Widely found in nature, it occurs in sea water, veins and alluvial deposits. About two-thirds of the world's gold now comes from deep hard-rock mines in Russia and South Africa.

One ounce of gold can be beaten out to 300 square feet it is so malleable. These sheets may be as thin as  $\frac{1}{280,000}$ th of an inch thick and are translucent passing a greenish color light through them. Gold resists rust and tarnishing in air and is untouched by most acids. It is used in coinage, in dental work, and as a coating on mirrors and satellites and electrical conductors. Like other precious metals, it is measured in troy weight. When alloyed with other metals, the term *carat* is used to express the amount of gold present - 24 carats being pure gold. When we speak of 14 carat gold we mean that it is  $\frac{14}{24}$  gold. The freezing point of gold is used as an international calibration standard. Gold is one of



Face-centered cubic lattice as found in metals of the gold group - gold, silver, copper and lead all four metals forming the same general mineralogical group. These metals possess similar properties: soft, malleable, ductile, good conductors of heat and electricity (two forms of vibration), opaque to light (another form of vibration), high specific gravity. All have face-centered cubic lattice crystals. Each atom has 12 neighboring atoms touching it. The image below shows the twelve-fold coordination and the relation of the layer sequence. Silver and gold are so much alike that silver will substitute its atoms into a gold atomic structure and a complete series of the mixed quantities extends to pure silver. Gold will sometimes mix its atoms in a silver matrix as well. *Electrum* is gold found in the natural state possessing more than 20 percent silver and to the ancient Egyptian alloy.



the least resistant to electrical flow and resists penetration by certain types of harmful radiation. Gold is also used in medicine and healing.

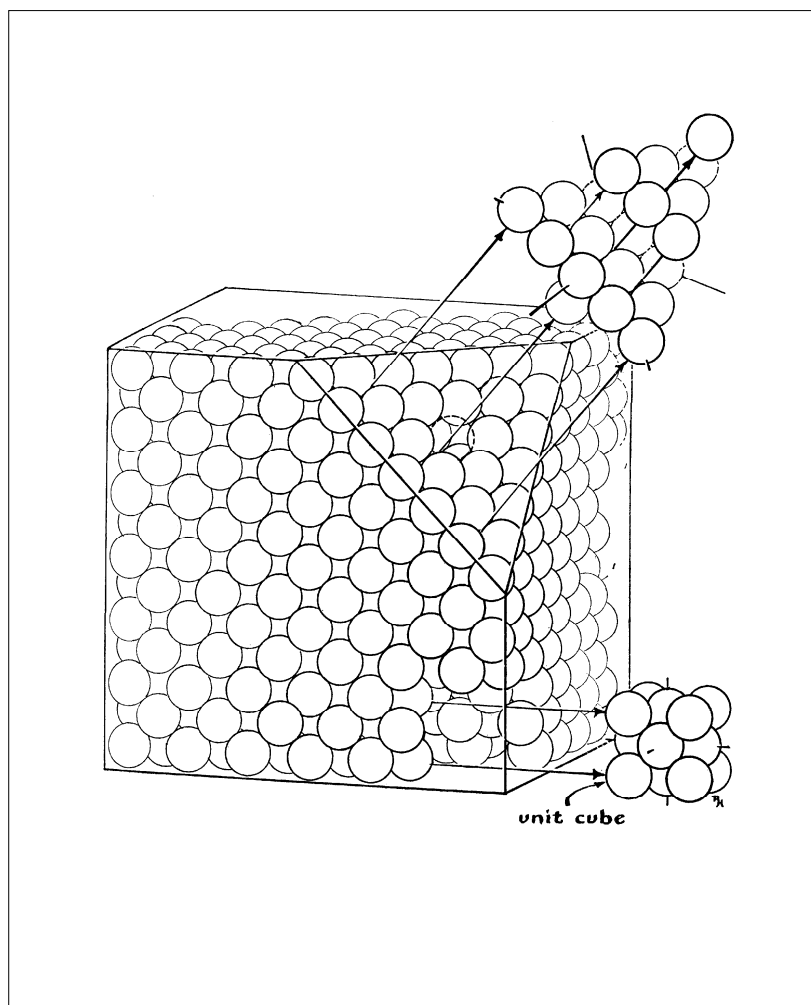
Gold reflects all visible light frequencies with gradual increase in reflecting power reaching a maximum at wavelengths of 600 nm and longer which accounts for its yellow appearance. Gold has spectral wavelengths from 2082.00 to 6456.52 angstroms (page 29-31).

Colloidal solutions of gold show an enormous colorfulness; it

can be greenish-blue, violet, reddish, violet-blue or pure rose. A dilution of 1:100 million will make water visibly purple. A Mixture of colloidal gold and colloidal stannic (tin) acid was formerly used as a pigment under the name of *purple of Cassius*. The beautiful red glass in cathedral windows is due to the addition of a trace of gold when the glass was poured. Colloidal gold has attracted the avid attention of scientists for over 400 years. Long before the concept of lyophobic colloidal substances was understood, fascination with col-

loidal gold preparations centered on their chromatic and medicinal properties. Around 1600, Paracelsus described a preparation of "*aurum potable, oleum auri; quinta essentia auri*" by the reduction of auric chloride with an alcoholic extract of plants (Weiser, 1933). This red mixture was an example of gold colloid

formed by condensation and could be easily concentrated to a red-ochre oily consistency without flocculation, presumably due to presence of protecting substances in the alcoholic plant extract used in its preparation. As such, it was one of the first synthetic drugs and was called Chin-tau in Chinese and Makaradhwaja in Indian medicine (Mahdihassan, 1985).<sup>2</sup>



Face-centered cubic packing showing the atoms as spheres in their true size relative to the space. The face-centered cubic unit contains four atoms and the simple unit containing only one atom is a rhombohedron.

The ancient physicians developed and used "aurum potable" or "edible gold" which was apparently a crude form of colloidal gold. Did they have an inkling of the vast potential these colloids had? How did they go about preparing them? Pauli<sup>24</sup> prepares gold "sols" by the electrolytic treatment of ordinary gold salts. He finds the colloidal gold found in these "sols" consists of a metal nucleus to which is attached aurates or more complex acids of gold. Nicol<sup>25</sup> and others prepare the "sol" by treating a so-

lution of a gold salt with hydrogen peroxide in the presence of alcohol. The gold "sols" are used in treatment of tuberculosis and epilepsy.

During the 1920s and '30s considerable attention has been paid in the medical literature to the treatment of tuberculosis by the use of certain

compounds of gold; notably the double thiosulfate of gold and sodium, which was introduced by Moellgaard<sup>26</sup> under the name *sanocrysin*. Among other preparations used similarly are *aurrocantan*, *aurolin*, *krysolgan*, *solganol*, and *lopion*.<sup>23</sup>

*"The Gold Activity Upon the System: is to supply that necessary element in the glands that secrete in the system for the supplying of the assimilated forces of a developing body, and pour their fluids as from the 'horn' into the body." (Cayce 5500)*

*"The Gold, which is carried into the system vibratorily through the [Wet Cell] Appliance, is to act upon the elements in the nerve system so as to renew the energies in same." Cayce(735)*

*"The vibrations (via Wet Cell) from the Gold Solution are to act upon the nerve impulse as to be as a creative force or to become activative as an influence to the glandular system through the assimilating body." Cayce(1853)*

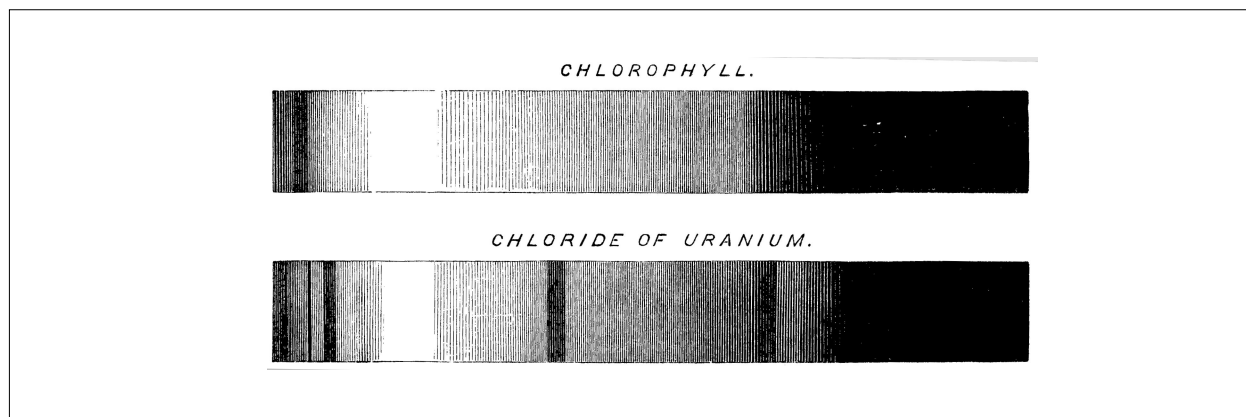
*"The Wet Cell Appliance, with Gold Chloride added, carries "those properties that are as stamina to the nerve forces of the body..." "...where there are vibrations of a specific nature (Gold in this instance) carried into the body through those centers (Lacteal Duct) from which the radial activity of the circulation is carried, are to carry those elements that stimulate growth to the very glands and the very nerve fibre themselves. And we will be able to find or to see how that various portions of the body, in the extremities, in the strengthening of the stamina along the Cerebrospinal System itself, will be created little by little." Cayce(735)*

vous system and induce these desirable actions and reactions in the body? Much as a laser does its work - through coherent vibrations acting through sympathetic induction from its own vibrations to the centers of glandular forces thereby supplying and stimulating same in its actions. The gold also has a direct effect on the emunctory system of the body.<sup>21</sup> This is the complex circulatory system of mucus and lymph systems.

*"In making administrations to supply these glandular centers which supply to these patches, or the emunctories add these in the B Complex or the Riboflavin - the necessary elements in each portion of the B vitamin forces. These will be found most through the supplying of elements in Gold and in Nitrate of Silver - the Sodium Gold Chloride and the Nitrate of Silver. These should be added to the body, then, vibratorily, as well as through the alimentary canal - or by mouth. Not such great quantities, but by the vibratory method all the system takes; by mouth, about two drops of the Gold Solution (one grain to one ounce of distilled water) every other day, with the Bicarbonate of Soda solution to equalize same for the activity in the stomach itself. (Four drops of the Bicarbonate of Soda solution.) These will supply those elements needed to the body." Cayce(294-212)*

*"Each evening following the treatment with the Appliance carrying the Silver solution, shake the above ingredients together and massage along the spine, across the abdomen, over the limbs, and ESPECIALLY in those centers (as under the arms, in the groin, the elbows, under the knee, across the body itself) where the emunctory activities are closer to the surface." Cayce (1006-1)*

How does gold act upon the elements in the ner-



Spectra of two chemical compounds. Differences exist between every element and compound and no two will ever have the same groupings of light and dark lines. The above is an older version of the art. Today we use many different forms of spectrographic images and charts.



Silver acts somewhat the same way however the vibration chords of the two elements are different and *nearly opposite* in effect. Therefore the two may modulate similar centers similarly but obtain different results. These two points about coherent and sympathetic vibrations are covered in the following law:

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." (Keely, pre1894)

It should be kept in mind that gold probably does not have any medicinal qualities of and by itself. Gold is a metal. The body uses traces of elements throughout its systems for proper functioning. Throughout the body are found these and other metals in microscopic trace amounts. Gold is an element much like magnesium or the other trace elements and as such is required by the body for it to be a more complete and functioning whole. It is known and accepted that magnesium, for instance, works within the electrolyte used by the nervous system for a more proper and whole functioning of that system. Gold is not much different. Just as certain metals have certain properties that no other metal has so too does the gold, silver and platinum metals. They each perform certain and specific functions within the body.

The following quote mentioning how the vibrations of the gold *are to act upon the nerve impulses* [so] as to be a *creative force*. One of the properties of gold we are coming to recognize is its ability to amplify, encourage, stimulate or even energize a particular kind and range of vibrations. No other element or molecular compound has this quality.

*"The vibrations (via Wet Cell) from the Gold Solution are to act upon the nerve impulse as to be as a creative force or to become activative as an influence to the glandular system through the assimilating body." Cayce (1853)*

The above quote mentions the "Wet Cell" device<sup>6</sup>. This is a small contrivance whose directions for construction and use were also given through Cayce. The function and purpose of this device was to impart the *high vibrations* of gold or silver to the human body. It was held by the readings that the cerebro-spinal system and the sympathetic nerve systems (endocrine glandular system) of the body are, when healthy, *coordinated* together in their functions. The gold and silver bring about a harmonization or coordination between these two systems and other subsystems. The body may be severely "out of wack" in either the mental, emotional or physical aspects without proper coordination of these systems. This is not unlike an orchestra where the horn section is out of tune with the string section or their timing may be off. Even though the same music is before each they are each playing to a different conductor and the resultant "music" is not music but noise. The vibrations of the gold and other noble metals allows the DNA and RNA to get their act together. But also the gross functions of these systems can begin to "hear the music" and get the clear instructions from the conductor (on high) and the music begins to harmonize once more and health results.

A fine example of how this is, how this takes place and what a correcting procedure may be; we bring in this quote from the Cayce readings which describes just this situation. Because the diagnosis and prognosis is different than conventional chemo-drug-death-based view points it will seem a bit difficult to understand. However, taking the words slowly and grasping each idea before proceeding to the next will be most helpful.

2. "As we find, while in the physical forces of the body there are very good conditions in many ways, there are periods and times when those conditions which have been existent produce incoordination between the mental reactions and the physical responses. This is produced by the effects of a condition existent from almost the time of the birth, from the manner in which the presentation was.

3. Hence there is a lesion which has formed, that makes a pressure upon the adrenals in their responses to the nerves of the pineal glands and those that make for the responses between IMPULSE and the nerve reaction to forces in the activities of the body itself.

4. These, then, are conditions that arise as periods or cycles of changes, and activities that have an effect upon the body's physical and mental reaction - in the physical, or in the applications of the activities in the assimilating forces of the body, as applied to gland reaction, to nerve responses and nerve buildings.

5. Then, these are conditions as we find them with this body, [1056] we are speaking of:

6. *IN THE BLOOD SUPPLY*, in the present we find the responses here are near to normal, save as to the effects that are being created - and are created at times in the manner in which the various hormones in the hemoglobin apply to the activity of the nerve AND the responses in the nerves in the glands to the system. These are indicated in the numbers, or the manners of the hormones within the cellular forces of the blood.

7. *IN THE NERVE FORCES*, these responses are shown in the axis of the lower lumbar center. These have made or produced, then, a lesion that - forming with the brush end or the lower end of the cerebrospinal system as it coordinates with the sympathetic or vegetative forces - brings about at times the lapses of coordination in reflexes and responses to the activities of the body itself.

8. Hence we have a physical condition producing in the body-functioning, in the glands and in the activities to the functioning of the responses of the nervous forces, the disturbances.

9. *THE BODILY ORGANS*, while the activities of these are in the main near to that which would make a normal physical response, we find that these may be materially aided.

10. While it will require persistency, and a consistent reaction to or through the influences that must become of an electrical nature as related to that assimilated and its response upon the activity in the supplying of influences in the functioning of glands in those areas that will make for a loosening, there may be produced a relief of that area in the 4th lumbar center. Thus there may be produced then a coordinant reaction in the cerebrospinal, the sympathetic, TO brain or sensory responses.

11. To make for adjustments in the cerebrospinal system externally will only make for a strengthening of the physical forces without adding to the system that which would be of the nature to make for a loosening of those lesions produced by pressure when tissue was first forming.

12. Hence we will find the necessity of adding those elements in a nature or manner in which they may become as elemental activities to the body; that is, in the nature of the natural elec-

tronic energies.

13. Hence we would apply same in those elements that are as resistances one to another, through the areas where there is the indication of that which is producing the disturbance. And at the same time these elements would carry those activities to the glands themselves so that their *SECRETIONS* may be of such a nature as to repair that which has been damaged by this long incoordinant activity in their functioning.

14. This may not be repaired in a few applications, nor will it be found to be other than a *GRADUAL* growth to gradual betterments - until the lesions themselves have been assimilated or disseminated or dissolved by the activity of the elements carried in the system. And at times there will apparently be a reaction which will be of such a change as to require a great deal of patience, and a great deal of mental suggestive forces for the body, to bring the normal reactions. But then we will find a betterment coming about that will, in less than a third of a cycle of development, make for much nearer to normal conditions.

15. Prepare, then, the Wet Cell or the galvanic low form of electrical vibrations, from the Wet Cell Appliance; that will carry in same two solutions - one the Chloride of Gold and the other a 10% solution of Nitrate of Silver. The vibrations from these solutions would be carried into the system from separate leads. The attachments would be made in this manner:

16. The first day the Chloride of Gold solution (in the proportion of 10 grains of Chloride of Gold to each ounce of distilled water), the next day the 10% solution of Nitrate of Silver.

17. The small copper plate would be attached first, over the lacteal duct center. The larger nickel plate, passing through the solution (one day the Gold, the next day the Silver), would be attached last - at the upper portion of the adrenal center - or at the 9th dorsal center. Each day the application would be made for thirty minutes.

18. After this Appliance has been used for a period of thirty days, then begin with a gentle massage once a week that would make for a loosening of the areas from the coccyx center to the brachial plexus center. Preferably it would be with such a vibration given from an electrically driven vibrator. This merely added to the other treatments, see?

19. After these have been given in conjunction for sixty days, then rest or leave them off for a period of a month; and then begin again.

20. Do this, consistently, persistently. Renew the charge of the Appliance every thirty-six days,

*by the adding or the changing of the solutions, so that the electrical forces will create those activities in conjunction with glands, with nerve responses. For these will develop that necessary force to overcome those conditions and bring about coordinations in this body, mentally with the physical, mentally with the spiritual. Let it be done in harmony and in prayerful attitudes.*

21. Ready for questions.

22. (Q) Do you think in time he will be entirely cured? (A) He will within the period as indicated be normal physically, mentally, if the treatments are consistently and persistently applied as indicated." Cayce (1056-001)

In the next quote it is stated the elements of gold and silver are themselves absorbed into the body by way of the *radial activity*. This appears to be an enigma at first reading but is not really (see Law of One chart). During the evaporation process, for instance, there is a simultaneous radiation from the surface while there is also an absorption of heat vibrations. Newton said it best when stating there has to be an equal and opposite reaction for every action. Therefore while the skin can radiate heat vibrations while it absorbs same is not strange. Also a fundamental property of a vibration is the expansion and contraction as given in the Law of Assimilation. The positive phase expands out and the negative phase contracts to the center.

It is further known that as these two polarities interact in this fashion a rotary or vortex motion results. This can be easily seen in the new satellite photos of tropical weather patterns during the hurricane season. Peripheral streams of clouds tend to go away from the center while the center tends to draw all clouds to itself. This is the ancient *Dance of Shiva* and is as fundamental to nature as any other part or consideration.

*"The, (Gold & Silver) through the absorption of same by the Radial activity, would add to the gland forces in the circulation that which would become NOT only constructive to their proper functioning, but would become destructive to the organisms [bacilli and germs] that accumulate from the adhesions and cohesions through the portions of the system as indicated." Cayce (735)*

This process is not unlike the one we hear of that states "We only receive that which we give" or "as one sows so does one reap". This is a process of give and take or release and gather. They are

opposite states much as the positive and negative phases of a vibration. One phase is receptive and the other is expressive. One phase receives the other gives. This is the great give and take of the Universe. This is Life in its activity of Love and Nurturing. As one lives these principles in their daily lives they are in essence living in tune or in harmony with Divine principles as set forth by the Great Creator of this marvelous construction called the Universe. The breathing in and out attributed to Brahma is another evidence of this one great law of universal applicability.

## Silver (Ag)

Silver was known to ancient Hebrews, Greeks and the earliest Egyptians. Silver was known to the alchemists as a female element closely related to the Moon. The Moon is the "lesser light to rule the night" of Genesis. This is representative of the female, left-hand side and the dream and intuitive part of our brain and minds.

Isn't it strange that the fictional vampires roamed at night and the only thing they feared or were ruled by was silver? As we will see later - silver is indeed deadly to bloodsuckers, bacteria and parasites that feed from other life forms. Is it then strange silver represents the night-side of our characters and lives as believed by the ancients?

This shiny metal has many common uses, including dentistry, ornamental jewelry, in the photographic industry and in medicine. Found native and in various ores, including argentite, chalcopyrite and copper. Silver is the best conductor of heat and electricity of all the metals. In the case of electricity conduction silver appears to be almost superconductive or 'transparent' to the current flow. Molten silver absorbs many times its own volume of oxygen and will visibly swell during this process. Silver is highly impervious to damage except by sulfur which causes tarnish. Silver compounds have interesting commercial uses including seeding clouds to produce rain, as a cement for glass, in mirror production and in the construction of electrical components. Silver alloys have been used for centuries all over the world as coinage and barter. Another use for silver is in musical instruments as a wrapping on vibrating strings used on violins, tenors, violoncellos, guitars, etc. and are a prepared wire or catgut, plain or covered, usu-

ally the 4th or "G" string. Strings of steel or brass wire are used for all instruments which are struck with hammers or plectra, as dulcimers, pianos, etc. Each string being of a different thickness according to the tone and tension required. Silver has a high reflecting power throughout the visible light spectrum which accounts for its 'silvery' or 'white' color. When fabricating mirrors very fine layers of vaporized silver are deposited in a vacuum onto glass. The gradual build-up of the fine layers of transparent coats goes through a magnificent color change from rose-red, then red-violet, then blue-violet and finally to a wonderful blue. Silver has spectral wavelengths from 2145.60 to 5665.43 angstroms. There is more information given on the wave numbers and spectra of silver on pages 29-31.

***When silver is made into a colloid solution it becomes the best bactericide and disinfectant ever known to medical science.*** This solution (actual silver metal particles suspended in water) is reported to be deadly against 650 varieties of germs, parasites and bacteria whereas conventional antibiotics are only somewhat effective against a half dozen or so<sup>7</sup>. The colloid of silver has no side effects whatsoever while standard antibiotics are notoriously dangerous if used improperly. These 'modern' antibiotics are so dangerous they require a trained and certified practitioner to prescribe their use. The silver colloids, on the other hand, are so safe they are not even regulated.

This antibacterial property of silver was not always known. In the 4th century B.C. the army of Alexander the Great conquered Persia and Phoenicia and invaded India. In India the Greek army was stricken with an outbreak of a mysterious gastro-intestinal disease. It was noted the military commanders fell victim to the same disease but far less frequently than their men even though they shared all the same accommodations of the camp life with their men. More than two thousand years passed before science could explain the reasons for this. The soldiers drank from tin cups and their superiors from silver ones. It was proved that silver dissolves in water forming a colloid solution that kills pathogenic bacteria. Although the solubility of silver in water is low, it is quite sufficient for disinfection.<sup>15</sup>

*"While those of the Silver 'cord' makes for that*

*transmutation of impulse from the brain to the organs of the body, sustaining - as it were - that spark of life itself in a material plane." Cayce (5500)*

*"The Silver, is to enable the activity of the eliminating system to so eradicate the effects of the suppression of activity in the muscular and tendon forces as to allow same to be eliminated from the body." Cayce (735)*

Samaan<sup>22</sup> finds that while colloidal silver preparations are less efficient as disinfectants than is ionic silver (e.g. silver nitrate) a 1:5000 solution of colloidal silver is a stronger disinfectant than phenol solution, 1:250. Moreover, the colloidal solutions of silver solution are much less irritating and are much easier to use than is silver nitrate solution.<sup>23</sup>

A silver colloid prepared with more than 19% and less than 45% silver with protein (usually egg albumin) is used as an antiseptic and germicide in 5 to 50 percent solution, which acts as a mucilaginous demulcent and protective.<sup>23</sup>

An important facility of silver is its light sensitivity when in a salt such as silver chloride, silver bromide or silver iodide. This wonderful sensitivity to light may play an important function in silver's antibacterial dynamism. We know from scientific studies that light will destroy any bacteria. Light also has curative qualities. Later on we will look at other aspects of light relative to functional properties of these three metals.

## Platinum (Pt)

This precious metal is more valuable than gold and one of the heaviest substances known. It does not corrode or tarnish. It cannot be dissolved even by strong acids, and forms alloys with most metals. This metal was first brought to the attention of the world by de Ulloa, in 1748, who, in his descriptions of his explorations in Mexico, referred to the metal there discovered. The word *platina* (little silver) was first applied to the metal by Scheffer in 1752. Platinum is often referred to as *white gold*. It belongs to the *platinum group* of metals which includes iridium, osmium, palladium, ruthenium, and rhodium. Used extensively in jewelry, instrumentation, any metal fabrication which must resist high temperatures. Platinum is used as a **catalyst** in mufflers and industrial applications. Hy-

drogen and oxygen explode in the presence of platinum. Platinum has spectral wavelengths from 2628.20 to 5475.80 angstroms.

Platinum has some curious properties like the ability of a thin sheet of it to allow the passage of hydrogen gas and none other while heated red hot. It is the most ductile of metals allowing it to be drawn into fine wires so thin a microscope is required to see them. A sponge made of this metal has a remarkable absorptive capacity for oxygen and will absorb 250 times its volume of that gas.<sup>23</sup>

It is a well known property of platinum and its associated family of elements that they *transform* one chemical substance into another state or substance without substantially changing themselves. This is what a catalyst is - a "transmuter" or agent of change. It is believed that the platinum family was part of the Alchemists' "Philosopher's Stone" or that most valuable substance which "changes other substances but itself remains unchanged". Platinum and its family members are used extensively in dehydrogenation and aromatization industrial processes.<sup>16</sup> All six noble metals, palladium (Maxted and Ismail, 1964; Tayim and Bailar, 1967), platinum (Cramer *et al.*, 1963; Davis *et al.*, 1963), rhodium (Vaska and Rhodes, 1965; Young *et al.*, 1965; James and Rempel, 1966; Mague and Wilkinson, 1966; Osborn *et al.*, 1966; Jardine *et al.*, 1967; Montelatici *et al.*, 1968; O'Connor and Wilkinson, 1968, 1969; Chevallier *et al.*, 1969; Piers and Cheng, 1969; Shapley *et al.*, 1969; Lehman *et al.*, 1970; Dewhirst, 1970; Abbey *et al.*, 1971; Masters *et al.*, 1971), ruthenium (Halpern *et al.*, 1961; Harrod *et al.*, 1961; Halpern, 1965; Jardine and McQuillin, 1968; Hui and James, 1969; Ogata *et al.*, 1970; Khan *et al.*, 1971), iridium (Haddad *et al.*, 1964; Eberhardt and Vaska, 1967; Yamaguchi, 1967; Bradley and Fraser, 1969; Guistiniani *et al.*, 1969; Jardine *et al.*, 1969; van Gaal *et al.*, 1970; White *et al.*, 1971), and osmium (Vaska, 1965; Fotis and McCullom, 1967; Dewhirst, 1969) make active catalysts and these have appeared already in great variety. In fact the platinum family of elements is well known to have these properties and has been and is used very extensively throughout the chemical industry.

Hydrogenation and dehydrogenation are impor-

tant chemical and biological processes. Hydrogenation is exothermic and proceeds at a negligible rate in the absence of a catalysts, even at elevated temperatures. The uncatalyzed reaction must have, therefore, a very large energy of activation. The function of the catalyst is to lower the energy of activation so that the reaction can proceed rapidly at room temperature. The catalyst does not, of course, affect the net energy change of the overall reaction; it simply lowers the energy hill between the reactants and products. A catalyst lowers the energy of activation by permitting the reaction to take place in a different way, that is, by a different mechanism. In this case, the reactants are absorbed on the enormous surface area of the finely divided metal (as in a colloid), where reaction actually occurs. Lowering the energy hill decreases the energy of activation of the reverse reaction as well and thus increases the rate of dehydrogenation.<sup>17</sup>

Primary alcohols in the presence of oxygen and a noble metal catalyst can be converted to aldehydes or acids and secondary alcohols afford ketones.<sup>17</sup> Furthermore it is just as simple to prepare artificial alkanes and then convert them to alkenes or alkenes back into alkanes or convert unsaturated esters into saturated ester.<sup>16</sup>

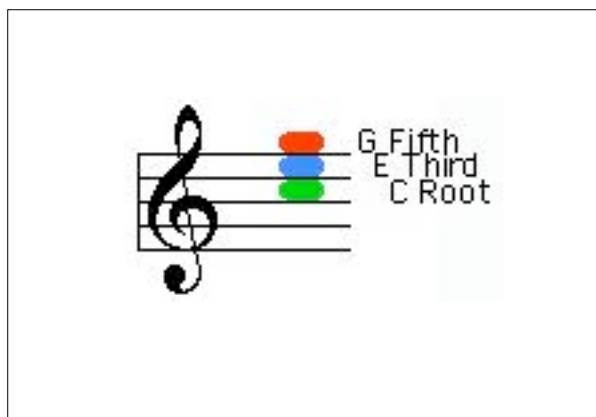
Catalytic oxidation of carbohydrates over platinum metals has proven to be a very powerful tool for controlled transformations of these substances. The oxidations are characterized by extremely high selectivity which has been likened to that obtained in natural processes. Selective oxidations of mono- and oligo-saccharides with platinum catalysts and air have led to efficient preparations of uroinic acids, aminouronic acids, uronosides, aldonic acids, and intermediates in ascorbic acid synthesis (Heyns, 1970).<sup>17</sup> Palladium is one of the most active catalysts for oxidation of hydrocarbons (Moro-oka *et al.*, 1969). Not only these specific items but these noble metal catalysts play important functional roles in: carbonylation/decarbonylation; hydrosilylation; ammonolysis; alkylation/dealkylation; oxidation and deoxidation of olefins, aromatics, alcohols and acetylenes; acetoxylation; oligomerization of olefins and dienes; telomerization of dienes and many many other uses throughout the chemical industries.

Considering all the bio-chemically related func-

tions of platinum, how is it that the human body can exist in a properly functional state without platinum being present? Its role as catalyst or transformer of chemical substances during which other energies play vital roles is absolutely vital in the bio-chemical processor we call our body. Small wonder when seemingly miraculous cures have been witnessed when this element was added to the system.

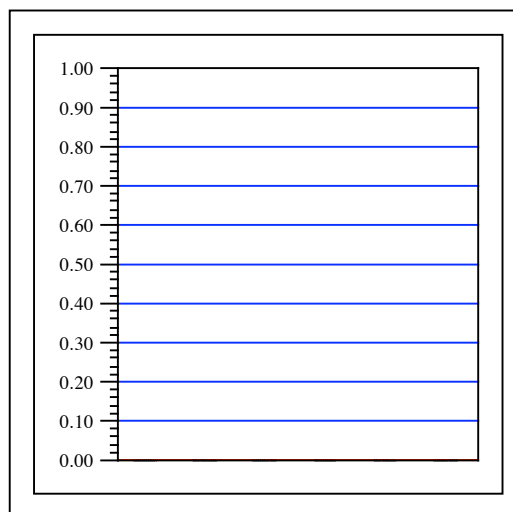
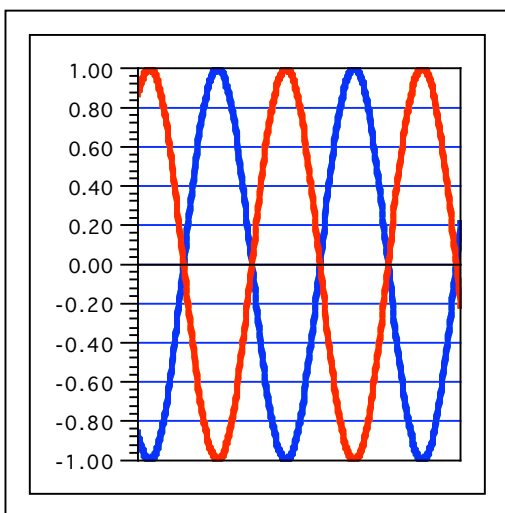
In *The Precious Metal Review* a publication put out by Johnson-Mathe, one of two platinum processors in the world, are numerous articles about the many uses of platinum and the other precious metals in health care. Most of these articles deal with cancer treatments. Currently Sys-Platinum (ammonia-platinum compounds) and Carbono-Platinum are standard in the medical industry used to treat testicular and ovarian cancers. Apparently platinum salts when properly introduced through the blood stream solulized in small enough micro-clusters (as in colloids) cause changes in the DNA. During diseased states of the body the RNA and DNA find it difficult to communicate because the DNA has been disturbed. The changes wrought by the platinum re-establish the integrity of the DNA so it can then properly communicate with the messenger RNA about problems elsewhere in the system.

What is being said here is this: Of the three met-



Gold is *symbolically* represented by the musical note C. Silver is represented by the note G a fifth above C and Platinum is coincident to E a third above C. See Hughes' book *Harmony of Tones and Colors*.

als gold, silver and platinum the latter is the Neutral or Dominant of the three. Symbolically this is seen in the triune association of Adam (Au), Eve (Ag) and God (Pt). We have already seen where the essence of gold is a positive or individualizing 'force'. The silver is a negative or assimilating 'force'. The element of platinum, when properly associated with the former two, will be that which governs or controls and *changes* them. In this scenario platinum acts as the fulcrum upon which the see-saw of male and female forces play themselves out as they each

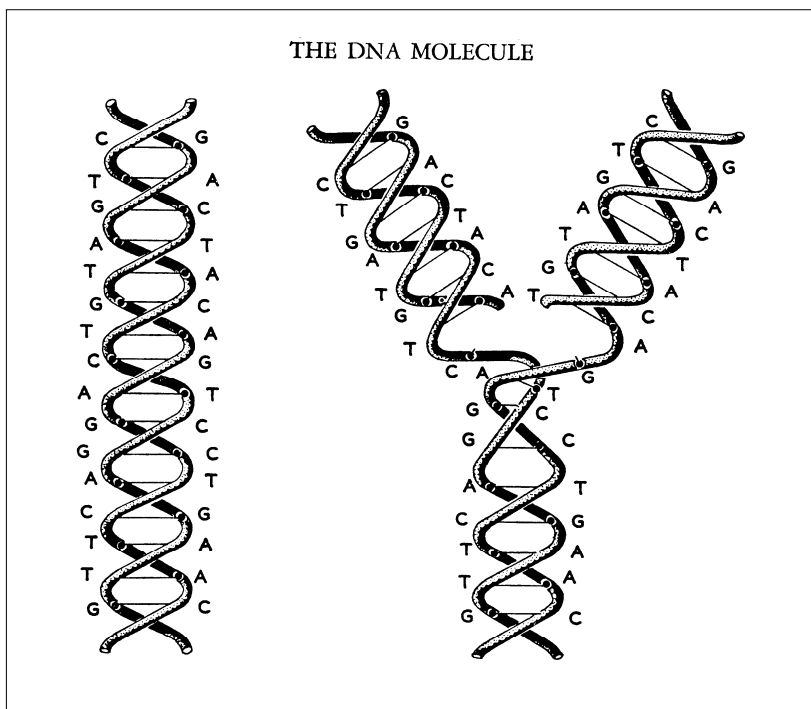


The chart on the left shows two wave forms of 800 and 800 plotted individually. One has an amplitude of 10 and sine of one while the other has an amplitude of -10 and a sine of -1. The result of summing the values of the first chart are seen in the second chart. The quantities sum to zero as Bearden would say it. Harmonizing these two waveforms results in a boson type force or as Keely would say it they would form a Full Harmonic Chord or an Undifferentiated Chord.

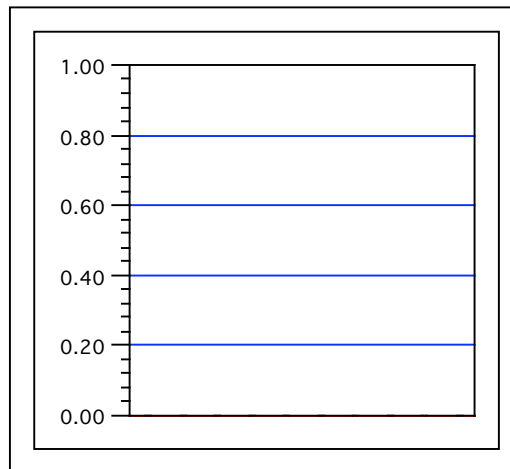
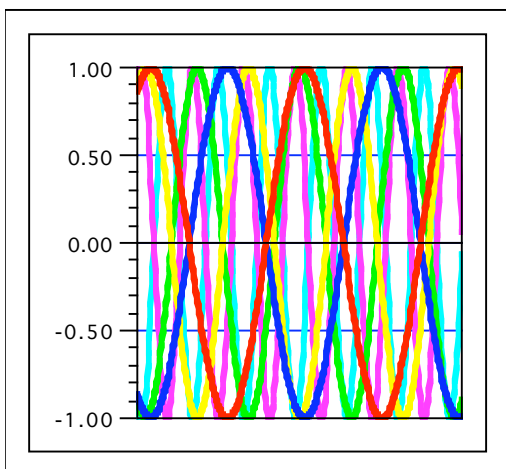
change their *relative stance or position* to each other. These ideas are not unlike the ancient Chinese ideas of chi energy flows streaming throughout the anatomy and always in pairs of yin/yang or female/male polarizations or phases of each type of chi and there are several types coursing throughout the body. The platinum would fulfill a role of harmonizer of these two polarities.

Law of The Dominant - "Every object is such by virtue of the higher or dominant force which controls the two tendencies, assimilation & individualization. i. e., Negative & Positive." Keely/MacVicar

This brings us to the idea of wholes or individualized centers' resultant construct. In this case a molecule. Once all is said and done the three metals will have come together as a triplet of atoms forming a whole molecule. This whole molecule is in actuality formed



The double-helix model of the gene structure (left) and its replication (right), according to the Watson-Crick hypothesis. The genetic alphabet of the four nucleotides is: A - adenine, C - cytosine, G - guanine, and T - thymine.



The chart on the left shows six wave forms of 900, 600 and 300 plotted individually. Three of each has an amplitude of 10 and sine of one while the other three have an amplitude of -10 and a sine of -1. The result of summing the values of the first chart are seen in the second chart. The quantities sum to zero as Bearden would say it. Harmonizing these three waveforms results in a boson type force or as Keely would say it they would form a Full Harmonic Chord or an Undifferentiated Chord.



## Triune Polarized Forces

The triune polar forces act together as ONE force. Or we may say the ONE force manifests as a triune ensemble of polarized aspects or phases or modes.

Blue = Negative, Attractive  
Red = Positive, Radiative  
Yellow = Neutral, Balance



While the three phases act as ONE and are not differentiated - none of them are perceptible Energy only manifests to our senses and instruments when the triune harmony is broken by a discordant influence either from within or from without.

of and is these three elements closely bound together. The relationship they now have to one another may be termed a vibratorily harmonic relationship. The individualized elements have their own vibration chord or pattern. When brought in close proximity to the other two the only way they can stay in close proximity is because their individual pitches of vibration are harmonious and not discordant. In the latter case they would separate with a power and velocity according to the degree of discord. Likewise they bind or associate with a force directly dependent on the degree of harmony of their relative pitches. The following law clearly states this.

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." (Keely, pre1894)

The chart on page 9 shows how the vibrations of musical notes associate to form musical chords of great harmony. This chart shows a few of the naturally occurring vibrations of these metals and associates them one to another thus forming or showing their true musical relationships. Generally speaking, standard science does not recognize this technique yet. It is new invented by this author. It is a powerful technique and will

eventually be employed in more routines designed to work with this natural music of the spheres of the elemental particles.

These inner vibrations of these metals will form identical chords of vibrations although on a much higher frequency range. This process is one of a tone sounding and simultaneously affecting higher harmonics and partials of those tones. This is a natural phenomena and occurs in all instances of vibrating substances. So if a tone is sounded in the audible range all of its harmonics and partials both higher and lower than itself will occur as well. Regardless of the actual frequencies (being very high) of the fundamental tone the relationship of the higher tones to each other is still the same as found in music acoustical (auditory) ranges. The relativity of pitch will always remain constant thus proving that the relativity or pitch of these tones is more important or just as important as the frequencies themselves.

### **As Above - So Below...**

In other words, a musical third in the auditory range is the same as a musical third in the light frequency range. A musical third is always a musical third regardless of the numbers involved whether they be small or large. This holds true



for all other musical intervals as well.

## Inner Natures

Looking at the human organism in its activities it can be seen to be in one of three states: 1) receptive (absorbing in as in taking in air, food, water, ideas) 2) expressing (putting out as in talking, doing, exhaling) and 3) neutral (as in sleeping or 'studying'). As we know these three states are very close to each other and we all go through these states many times during our waking and sleeping hours.

Gold, silver and platinum when combined in a proper manner mimic these three states of being. Because of their purity and lack of interferences the metals may each add to a given human system their own properties. According to the principles of vibration physics they each *modulate* the vibrations already within the system thereby causing an increase not only in quantity but also in quality through a vibration property called *entrainment* activated via sympathetic vibrations. Entrainment is like a Drum Major in a marching band. Secondly a term used in radio technology called Amplitude Modulation together with resonance also begin to play out here and the power of the vibrations is added to little by little until there is accumulated a rather large amount of power in each phase of the vibration.

This is somewhat like resonance as usually considered but it is not simply resonance as resonance is a *result* of other more subtler causative factors. The creative vibrations from the elements act as our Drum Major setting the cadence through his own rhythmic motions or vibrations. As he leads the others fall into step and follow. Identical vibration centers, wherever located in the body, will "pick up on this lead rhythm" sympathetically and begin to 'march' or vibrate in sync with the 'drum beat'.

In the law below it is explained how the vibrations of the elementary particles are the key and building blocks to produce atoms. The relative frequency ranges of these particles can be determined on the "Relative States of Matter and Energy" chart page 6-8.

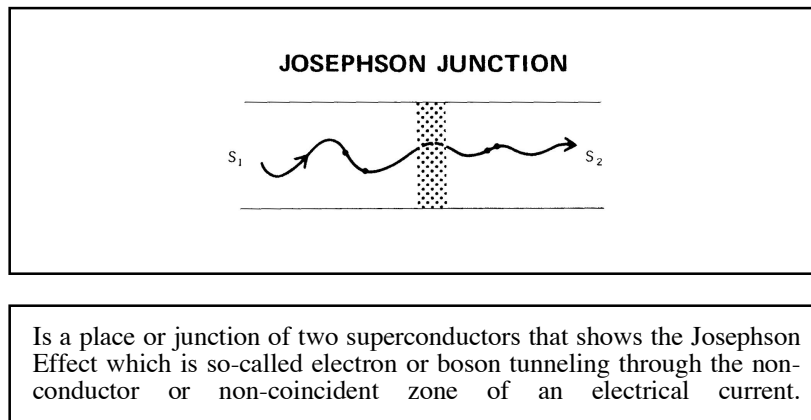
Law of Atomolic Synthesis of Chemical Elements - "Harmonic pitches of atomolity produce association of etheric-atomolic particles to form atoms; the kind of atoms is determinable by the pitches employed." (Keely, pre1894)

Therefore we can easily see and affirm that matter is a *result* of higher states of energy and not vice versa. Taking this into consideration it can be seen that it is not the molecular gold or silver that is the "curative" agent in colloid solutions. But these may be attributed to the vibrations of the atomoles or sub-atomic particles of which the gold and silver are constructed.

Law of Harmonic Vibrations - "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 atomole." (Keely, pre1894)

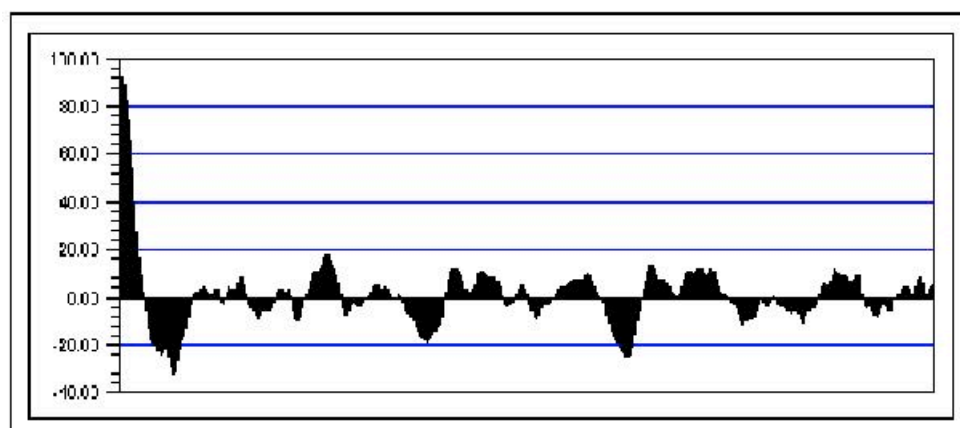
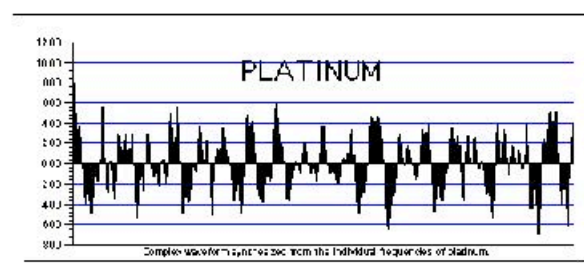
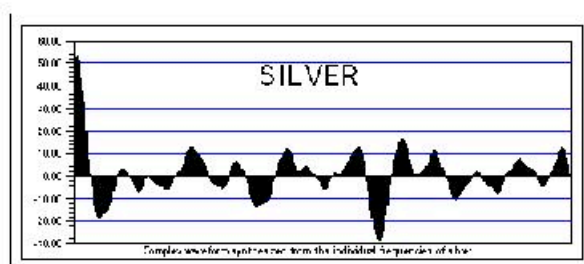
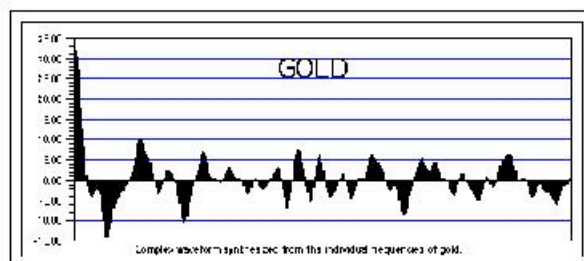
Yet another consequence of this law is to see the high level of integrity each molecule has. The vibrations

of the sub-atomic particles are arithmetically related directly to the vibrations of the structure of the complete molecule. The numerical relationships between particle vibrations and forces integral to its elementary structures is one of arithmetic and not mathematics. Just as music is composed and structured around simple proportions and ratios so are the relations found in these simple little particles. It may even be said that the molecules exist and have their beings through the principles of music. Thus harmony is preserved as well as physical structural integ-



Count of Intervals accurate to within $\leq 1\%$ of wavelength in I.A.
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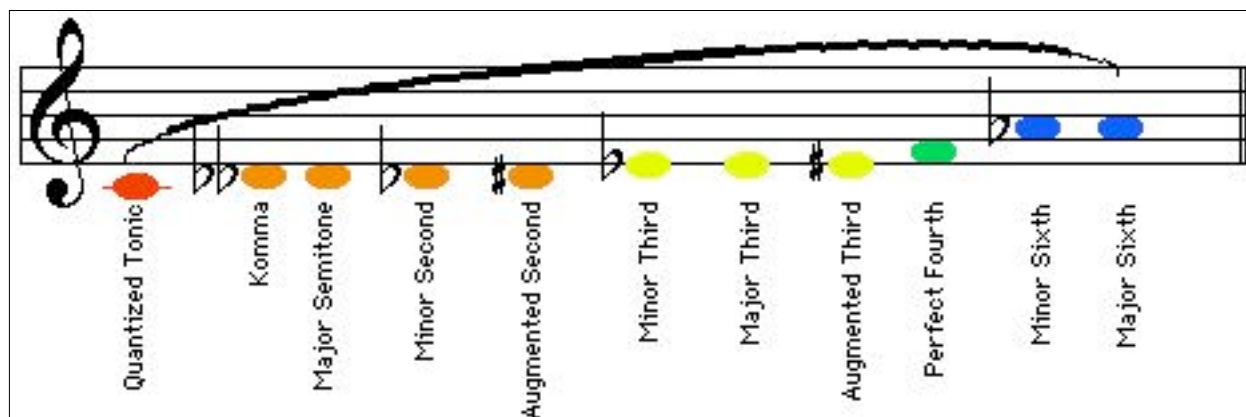
Platinum (42.85%)	Gold (43.02%)	Silver (55.2%)
8 Unison	7 Unison	97 Unison
12 Pythagorean Komma	9 Pythagorean Komma	99 Pythagorean Komma
6 Enharmonic	17 Enharmonic	94 Enharmonic
10 Lesser Chromatic Semitone	13 Lesser Chromatic Semitone	80 Lesser Chromatic Semitone
0 Leimma	10 Leimma	52 Leimma
0 Greater Chromatic Semitone	9 Greater Chromatic Semitone	23 Greater Chromatic Semitone
3 Minor Semitone	8 Minor Semitone	39 Minor Semitone
3 Major (Diatonic) Semitone	12 Major (Diatonic) Semitone	36 Major (Diatonic) Semitone
1 Minor Second	16 Minor Second	48 Minor Second
6 Minor Tone	14 Minor Tone	38 Minor Tone
4 Major Second	9 Major Second	47 Major Second
0 Augmented Second	8 Augmented Second	39 Augmented Second
1 Minor Third	9 Minor Third	30 Minor Third
0 Major Third	5 Major Third	18 Major Third
6 Diminished Fourth	10 Diminished Fourth	10 Diminished Fourth
2 Augmented Third	5 Augmented Third	14 Augmented Third
5 Perfect Fourth	7 Perfect Fourth	23 Perfect Fourth
4 Augmented Fourth	4 Augmented Fourth	21 Augmented Fourth
1 Tritone	2 Tritone	24 Tritone
0 Diminished Fifth	6 Diminished Fifth	9 Diminished Fifth
3 Diminished (Minor) Fifth	5 Diminished (Minor) Fifth	15 Diminished (Minor) Fifth
0 Perfect (Major) Fifth	5 Perfect (Major) Fifth	6 Perfect (Major) Fifth
0 Augmented Fifth	3 Augmented Fifth	3 Augmented Fifth
1 Minor Sixth	3 Minor Sixth	0 Minor Sixth
0 Major Sixth	6 Major Sixth	0 Major Sixth
3 Augmented Sixth	4 Augmented Sixth	0 Augmented Sixth
2 Harmonic Seventh	3 Harmonic Seventh	0 Harmonic Seventh
5 Dominant (Minor) Seventh	5 Dominant (Minor) Seventh	0 Dominant (Minor) Seventh
1 Minor (Tonic) Seventh	4 Minor (Tonic) Seventh	0 Minor (Tonic) Seventh
0 Major Seventh	4 Major Seventh	2 Major Seventh
4 Diminished Octave	4 Diminished Octave	0 Diminished Octave
5 Augmented Seventh	5 Augmented Seventh	1 Augmented Seventh
3 Octave	3 Octave	2 Octave
0 Minor Ninth	4 Minor Ninth	1 Minor Ninth
0 Major Ninth	5 Major Ninth	3 Major Ninth
0 Harmonic (Minor) Tenth	4 Harmonic (Minor) Tenth	5 Harmonic (Minor) Tenth
0 Minor Tenth	2 Minor Tenth	2 Minor Tenth
0 Major Tenth	1 Major Tenth	0 Major Tenth
0 Perfect Eleventh	1 Perfect Eleventh	0 Perfect Eleventh
0 Harmonic Eleventh	1 Harmonic Eleventh	0 Harmonic Eleventh
0 Augmented Eleventh	2 Augmented Eleventh	0 Augmented Eleventh
0 Perfect Twelfth	2 Perfect Twelfth	0 Perfect Twelfth
0 Augmented Twelfth	0 Augmented Twelfth	0 Augmented Twelfth
0 Minor Thirteenth	0 Minor Thirteenth	0 Minor Thirteenth
0 Harmonic Thirteenth	0 Harmonic Thirteenth	0 Harmonic Thirteenth
0 Major Thirteenth	0 Major Thirteenth	0 Major Thirteenth
0 Harmonic Fourteenth	0 Harmonic Fourteenth	0 Harmonic Fourteenth
0 Dominant Fourteenth	0 Dominant Fourteenth	0 Dominant Fourteenth
0 Tonic Fourteenth	0 Tonic Fourteenth	0 Tonic Fourteenth
0 Major Fourteenth	0 Major Fourteenth	0 Major Fourteenth
0 Double Octave	0 Double Octave	0 Double Octave
0 N/A	0 N/A	0 N/A



Complex waveform synthesized from the individual frequencies of Au, Ag and Pt.  
(This reconstruction of the spectral image assumes common phase angles.)  
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## Chord of Mass of the Elements Computed on page 9 and 29.

The tones below would represent the *musical* Chord of Mass of the three elements Gold, Silver and Platinum if combined together. However it must be kept in mind that we computed just a few of the Wave Numbers. There are many more intervals which we left out in order to show in a simple way what the Chord of Mass would be. The lower graphic shows how the combination of different tones or rates of vibration will merge or synthesize into new and unique complex wave forms. All vibrations are complex waveforms and are composed of aliquot parts as depicted. Therefore the Chord of Mass of an element or an object is the differentiation of the vibrational aliquot parts from the overall spectrum or spectral signature of that element or object. It has been shown (Pond, 1991) that the aliquot parts found in the spectral signature bear relations one to another as do naturally occurring musical tones. This is made perfectly clear on page 29 where the different spectral frequencies of each of these three metals are compared one to another as musical intervals are normally established. The resultant lists of intervals are only *those naturally occurring within 1% of a true musical interval*. Calculations of lesser accuracy were not performed.



## Wave Form Components - Aliquot Parts

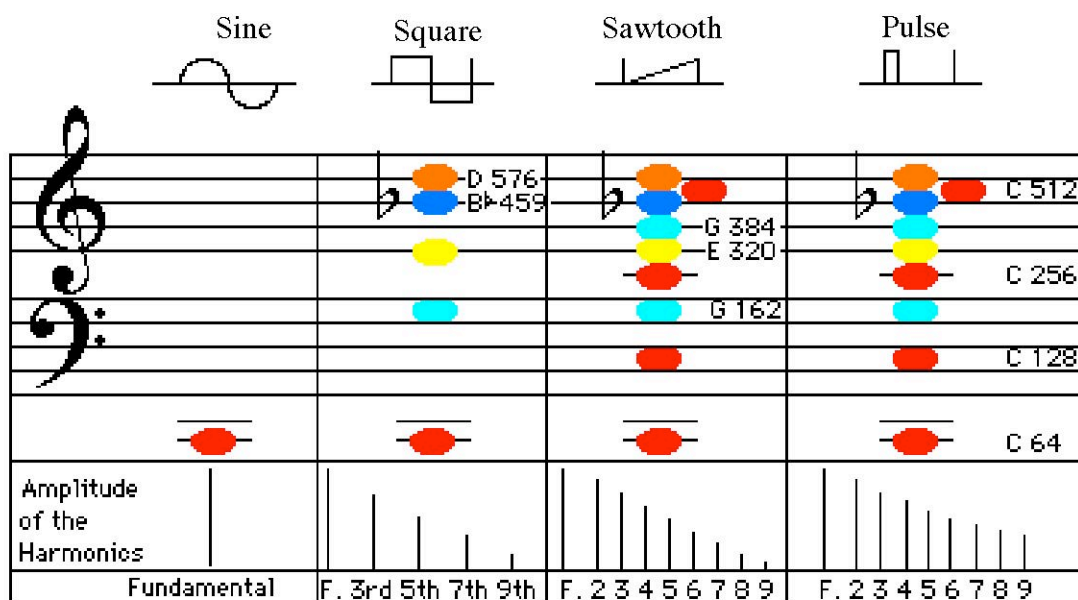


Diagram showing the component notes (aliquot parts)  
when merged or synthesized together combine to  
form the different wave forms pictured above the chart.

urity and will remain so until acted upon by another force or motion. An important work in arithmetic research is Quantum Arithmetic designed and developed by Ben Iverson<sup>10</sup> to operate in these realms using the same simplicity and comprehensiveness the particles themselves express.<sup>10</sup> Another important work is that of Sir James Jeans the Science of Music. In this book Jeans gives us a table of harmonics showing their respective powers. Interestingly he shows the eleventh harmonic as having more energy than the fundamental which caused it to come into existence. There is more on this over-unity energy elsewhere in this volume most notably Anti-Stokes Emissions and cavitation.

This property of imparting vibratory influences (frequency, mode, phase, etc.) is caused via sympathetic vibrations. When two systems are similar to each other *vibratorily speaking* they will each cause effects in the other as well as experience causative forces from the other. This is why we have a physical body as well as the spiritual and soul energy forms *simultaneously*. The sympathetic vibrations effect one another therefore there must be at least two centers of vibration. The vibration centers of the physical body (also brain) must have at least a molecule or atom of these elements with their particular vibration chord, signature or matrix. Without these individualized centers of vibration emitting their own peculiar chords of frequencies the introduced metals with their accompanying vibration chords or signatures would not have a receptive and resonant center to interact with. Therefore there would be no 'transfer of vibrations' from the metal to the body. (There really is no actual 'transfer of the vibrations' per se because the vibration is not a *thing*. Vibrations are a condition or state of things in motion. So, through sympathetic vibration, entrainment, resonance and amplitude modulation there is a 'transfer of vibratory condition' from like to like or sympathetically associated centers. These conditions can also cause "evoked responses" from similar chordal centers through sympathetically induced energy states.

*"If matter without form preceded the creation of vitality, "it is only when the principle of life had been given," says Charpignon, "that the intrinsic properties of atoms were compelled, by the law of affinities, to form individualities; which, from that moment, becoming the center of action, were enabled to act as modifying causes of the*

*principle of life, and assimilate themselves to it, to start with, that it will be well to remember; for, as in the hypothesis of MacVicar and the demonstrations of Keely, the law of assimilation is made the pivot upon which all turns, "providing at once for mind and for matter, and placing them in a scientific relationship to one another."*  
Bloomfield-Moore<sup>11</sup>

In this action/reaction scenario we can see the acting out of another of Keely's laws of Harmony; *i. e.*, the Law of Individualization. As the principle of centering or One is preserved we can see that each center is, of and to itself what it is and as it is so it attracts to itself. This law is actually a third of the great Law of One. The other two being the Law of the Dominant and the Law of Attraction/Assimilation. This is the same law as give by Christ in the Book of John. This given law, by the way, was the only law given by Him.

*"What gave He as the whole law? To love thy God with all thy mind, thy body, thy purpose; and thy neighbor as thyself! This is the whole law."*  
Cayce (1722-1)

To love is to assimilate or to form a *sympathetic association*. To assimilate implies oneness of at least two different centers - self and another. Thus assimilate or *sympathize with* the WHOLE to one's self as well as one's self to self and others to self. This is LOVE in action. For, as is being shown here, all is connected via sympathetic vibrations and may even be said to all *as one*. Which may be stated as:

*"Just as He hath given, "Inasmuch as ye have done it unto the least of these, thy brethren, ye have done it unto me -- inasmuch as ye did not these things unto thy brethren, ye did them not unto me."* Cayce (1722-1)

Much can be said here about cosmological issues. The concept of God, nature or what have you is really up to the individual - the *responsible* individual. Some have said that the purpose in life is to enjoy it. This is true. But is it the whole story? Is there more to life than pure physical enjoyment of that which is experienced? Perhaps this concept of wholeness and individuality is not much more complicated than it appears. Life is.... and life's experiences are what they are to each individual. The concepts and ideals held by each are the keynote or chordal tone by which that individual confronts and interprets life.

"What, then, is the purpose of the entity's activity in the consciousness of mind, matter, spirit in the present? That it, the entity, may know itself to be itself and part of the Whole; not the Whole but one with the Whole; and thus retaining its individuality, knowing itself to be itself, yet one with the purposes of the First Cause that called it, the entity, into being, into the awareness, into the consciousness of itself. That is the purpose, that is the cause of being.

In what manner, in what way may I apply myself as an entity, as an individual, to fill that purpose whereunto the First Cause has its influence, its way, its purpose with me?

For thy physical self may only see the reflection of good, while thy spiritual self may be that good in the activities of thy fellow man in such measures that ye bring - what?

Ever, ever, the fruits of the Spirit in their awareness; long-suffering, brotherly love, patience, kindness, gentleness, hope and faith!

Then so live, so act, so think that others seeing thy good works, thy hopes that ye bring, thy faith that ye manifest, thy patience that ye show, may also glorify Him." Cayce 826-11

Law Of Individualization - "Every such object tends to assimilate all other objects to itself." (Keely/MacVicar, pre 1894)

This concept is much like the method the radio and television industry enjoy with their broadcasting and receiving antennae. The two antennae must be tuned to each other before any transfer of energy and information can take place with reasonable levels of energy expenditure. The closer they are in harmony (sympathy) to each other the less energy will be required to convey energy from one to the other. When broadcasting a signal the vibrations of the broadcast are the carrier waves of even more vibrations which are the information representing the sound, light, etc. we enjoy as the broadcast itself. The broadcasting (expressing, creative) antenna sends or radiates outward a vibrating energy of specific characteristics. The second or receiving antenna being in like or coincident vibration matrix (harmony) as the first literally attracts and then 'receives' or responds to the radiating energy (in vibrating form) from the first antenna. There is then an *evoked response*. This response is directly related to the impinging vibrations as in *like begets like*.

"Know that all strength, all healing of every nature is the changing of the vibrations from within, - the attuning of the divine within the living tis-

sue of a body to Creative Energies. This alone is healing. Whether it is accomplished by the use of drugs, the knife or what not, it is the attuning of the atomic structure of the living cellular force to its spiritual heritage." Cayce (1893-1)

In like manner the vibrations of the gold, silver and platinum are they themselves radiated from themselves to be absorbed by the various vibration centers of the body via sympathetic association. These individualized centers are themselves radiating a chord or matrix of vibrations that has an attractive quality as well as a radiating quality. **When a condition of harmonization of frequencies is "sensed" an interchange of energy and condition or state takes place. This is sympathetic vibration in its activity.**

Modern science is all over this phenomenon and refer to it as superconductivity. When the resistance and/or impedance goes to zero superconductivity is evidenced/achieved. When two or more substances become sympathetic in their vibrations they are said to vibrate **as one substance**. This is the definition of superconductivity. However it should be kept clear in mind that superconductivity is a resultant state of being in sympathy which is caused by the harmony of the chords of vibration (spectra). In the next paragraph we can see how modern science looks at this issue. They hold to the idea of hard particles as carriers of the harmony or common qualities of the original vibration state. In this case they refer to bosons as the carrier particle during the Josephson Effect. A boson is a compound particle made up of two electrons with opposite spin. So the two cancel each other out and create what we call a *neutral* particle. Neutral particles are not inert and non-existent even though we cannot actually measure one. These particles are what Keely referred to as the "Full Harmonic Chord" or possessing same. David Hudson<sup>27</sup> in his lectures refers to these particles as electrons converted to light having tremendous biological implications. These particles possessing the Full Harmonic Chord are the White Light of the ancients. It is the Undifferentiated Light mentioned by Phyllos and others. It is the Ultimate Source or One Source of all else even as Hudson points out.

In 1962, Josephson suggested that peculiar phenomena might occur when two superconductors are separated by a very small distance giving rise



to a so-called “weak-link-junction”<sup>18</sup>. At a theoretical level the basic mechanism of the Josephson effect is the quantum tunneling across such a junction barrier of the bosons<sup>19</sup> responsible for the correlations existing in two separate superconductors. The Josephson mechanism is very general indeed and applies beyond the special case of superconductivity. When we have two neighboring although separated regions where the same kind of correlation holds among the components, quantum tunneling of the carriers of the correlation must be expected, and a Josephson-like phenomenology becomes a distinct possibility. This descriptions of this phenomena reading identical to those of sympathetic vibration. In fact the scientific definitions are almost synonymous.

How does sympathetic vibration actually perform the “effect at a distance” phenomena? It is not known and maybe the activating element is the traveling or tunneling boson as postulated by quantum physics. *However it is difficult to envision a neutral particle being active.* In this instance the ideas of Thomas Bearden<sup>33</sup> concerning scalar waves is more appropriate. A scalar wave being in form of a “phase conjugate wave” does exactly what a boson is theorized to do and is the very same phenomenon as described by Hudson<sup>27</sup> when speaking of this action. The true nature of a scalar wave is that of multiple frequencies precisely combined together. Therefore a **scalar wave is actually a chord of vibration frequencies**. This form of scalar wave can apparently assume the triune form as mentioned by Keely where three separate frequencies are merged into the Full Harmonic or Tri-Tone Chord.

There is another theory how action at a distance happens. This is a postulate developed by this author over many years. Given the charts on pages 6-8 it can be seen that the faster an elementary particle spins the smaller it gets and the higher becomes its frequencies and energies. It is well established that the denser the media of propagation of a vibration the higher the velocity of travel. Therefore given that there exists a media much denser than steel having perhaps an infinite density therefore demonstrating a transmission velocity of vibrations also infinite. Also as a vibration occurs on the molecular level it creates its higher and higher harmonics and partials un-



The caduceus shows the scalar or phase conjugate wave form where each cancels the other out thereby creating a “neutral mode”.

til they too are infinitely high in vibration rate, density and frequency with infinite propagation rates because these rates act and react sympathetically within their own realm of frequencies -whatever they are.

***So (the CAUSE of) what happens below (molecularly) happens (creates EFFECTS) above (inter-etherically) and vice versa and anything sympathetically attuned will experience or reflect (be affected by) the same thing or energy.***

Going to these higher and higher realms is the vacuum or so-called zero point energy state. The energy content of a vacuum is near infinite as is well recognized by quantum physics. The vacuum is not empty. It is, however, empty of molecular and atomic matter but it is full of elementary particles. These smaller, denser particles (than atoms or molecules) possess much higher frequencies and greater energy states. So when it is said that tapping the zero point or vacuum state one can achieve over-unity energy it is an illusion. because the tapped energy is originating from these tiny but powerful particle states. *There is no such thing as over-unity of and by itself.* There are however *seemingly* closed systems that reach into or liberate these high realms and channel or demodulate these higher energy states into lower and more usable forms.

So by harmonizing wave forms they do not cease to exist but combine to form new forms in a *null state*. In an harmonized wave form of this nature there would be no evidence of its existence. All the polarities would be balanced or neutralized much as a see-saw would have no motion if both sides were perfectly balanced. However, there would be power here or amplitude or amperage but no current or *flowing* energies. This would be like a lake full of water but none flowing over the dam to power the generators. There would be lots of potential energy just sitting there ready to be tapped. This is the so-called zero-point energy. The same occurs in the Full Harmonic Chord or in the scalar wave (chord) as all the different polarities of the combined waves have been "equated" to its opposite and therefore their is no discernible force being manifest. All the inherent forces are *latent* - ready to be made manifest with a small disturbance introduced into the quiescent center or zero-point.

A few "esoteric" or inner essences of properties of these metals are:

Gold is the Creative (Influence).  
Silver is the Receptive (Influence).  
Platinum is the Transmissive or Transmutative (Influence).

Gold positive or conveyor outward or radial or RADIATING.  
Silver conveys back to the source or associates or ASSIMILATING.  
Platinum transmutes the positive to negative or is the NEUTRAL.

Gold rejuvenates vibratory forces (positive).  
Silver reflects or absorbs (negative).  
Platinum transmutes polarities (neutral).

Metal	Influence	Sex	Genesis	Note	Color
Gold	Creative	male	Adam	C	red
Silver	Receptive	female	Eve	G	blue
Platinum	Transmissive	neutral	God	E	yellow

It will be noted from the above that the musical notes of G, E and C, represented by these three elements, form the tri-tone chord of the Grand or Great Triad which is considered the most harmonious of all musical chords. The vibrations of this chord do not form discords.

The triune functional properties of these three

elements also coincide with Keely's Law of Force where the triune properties of vibrating energy are described. This triune function is the prime function of all motion and represents a unique rendition of the Law of One which is the supreme law of Nature and to which all other laws are subservient.

Law of Force - "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." (Keely, pre1894)

It should also be noted that the "essence" of each of the terms associated with a metal are the relevant and important aspect of that metal and not the metal itself. However, like a coin, there can be no single side to a coin without the other side - the metal and its vibrations are ONE and cannot be separated apart. For instance gold has a radiating, energizing, fortifying type of essence or quality. Are not these the qualities we associate with *male energy* or *Adam*? And would we not call this a *Creative* type of energy? In musical parlance we would refer to this energy as an *enharmonic* tone or chord. The enharmonic tones stir things up as in a sawtooth wave form emitted from a brass instrument such as a trumpet. This principle goes a long way to explain why trumpets are used in military marching bands - because the sound quality *stirs* and *arouses* emotions. A piano will not do this nor will a flute, guitar or clarinet. These latter instruments emit a sine wave or the smooth rolling wave we are all familiar with. This wave form is composed of harmonically related components and is not jarring but is soothing.

*"The vibration through the electrical forces of the Gold (with Wet Cell) should stimulate the activity to the various portions of the system so affected. While the Hydrochloric Acid (also via Wet Cell Solution Jar) is necessary in (this) system, the Gold - being an acid - will induce such activity in the ducts and glands themselves as to induce or cause the body, though low in its vitality, to **CREATE** that necessary acid in the present low state. Cayce (988-7)*

If a wire be properly fashioned of these metals the wire will be and function as its component substances. There are different types of vibrations and these distinctly different yet integrated modes, being three in number, are intimately as-



sociated (page 10). These being the longitudinal (back and forth), transverse (side to side) and Raleigh (circular or vortex) modes. The purpose of such a wire is to convey undifferentiated (scalar or harmonic chords of) vibrations without interferences. Another way of saying this is the wire would be superconductive meaning it would experience little or no resistance to a current flowing through it because it *faithfully reproduces all the transmitted wave form components*.

The component vibrations of the elements, properly combined, will compliment and enhance each other. The three musical notes of G (gold), E (platinum) and C (silver) combine readily to form a complex tone of exquisite harmony. This tone, as it flows through the tri-tone wire or body *being made of these three metals*, has a sympathetic etheric flow component of incredible potential and importance. Keely manufactured a wire of these three metals and according to him perfectly conducted the sympathetic flows:

*"A wire made of sections of silver, gold and platinum, respectively, is peculiarly adapted to transmit concordant vibrations in the relations of thirds, their range of molecular oscillation being in the proportion of 3:6:9 respectively. The Trexar is this wire composed of: a first section of silver, a second section of gold and a third section of platinum, all uniform in size, which is used as a conductor in vibratory transmission and for the multiplication of vibrational frequencies.*

*Silver represents the third, gold the sixth and platinum the ninth, in their respective relative molecular oscillating ranges. This triune condition will equate thirds in vibratory frequencies, that is, chords in intervals of thirds will set up disturbances in the Trexar and these disturbances will be equated so as to be transmitted as thirds from the positive or farthest end of the wire.*

*"There is no medium used in vibratory research so unerringly exact in effecting sympathetic negative attraction as the Trexar. This combination as accurately indicates the action of the earth's sympathetic envelope in its triple focalized action towards the earth's neutral center, as the magnet unfaillingly indicates the dominant electric flow."*

*"Differential molecular volume is required to equate differentiation of sympathetic flows. This condition is satisfied by the Trexar. Two differing molecular densities, represented by two different mediums, make possible the harmonious adjustment of the thirds."*

*"When an introductory transmissive sympathetic chord (say B flat) is conducted along a sectional transmitting wire the molecular triple (inter-molecule) is carried along by induced differentiation and it in turn excites high sympathy with the polar terrestrial stream which, being triune in character, requires a triune differential sympathizer of the same ratio of frequency. This is satisfied by the Trexar, consisting of sections of silver the harmonic, gold the enharmonic and platinum the dominant. When the Trexar is properly sensitized by any chord on the dominant, molecular differentiation is induced, the phenomena approaching magnetism is effect, but without a trace of true magnetism being present." Keely*

Before determining the role these metals play in healing or fortifying the body and mind forces it is necessary to explore what a vibration *really* is. It is much less precise and meaningful to simply say "vibrations" do this that or another thing. It is more accurate to refer to the dynamic components of vibrations in their *actions and interactions* that lead to the cause of "healing" or a renewed state of harmony throughout the organism.

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## What Is A Vibration ?

The simplest definition of a vibration is: *a periodic change of state.*

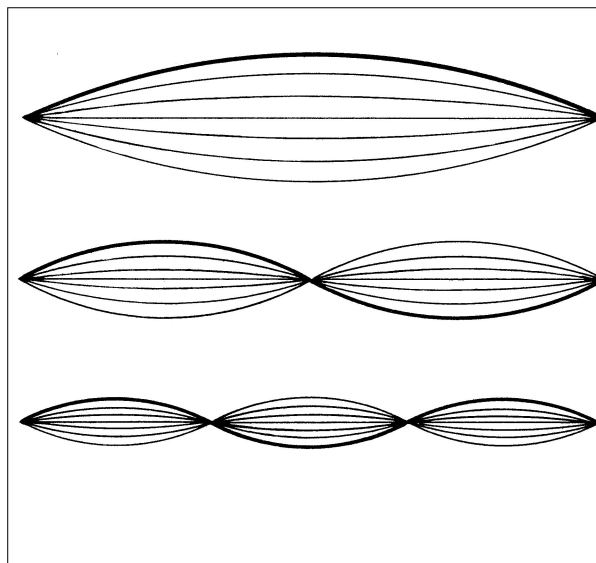
*Periodic* means: during or within a regular and recurring time sequence; *i. e.*, every second or every minute something recurs continually.

*State* refers to a: comprehensive, qualitative and quantitative matrix juxtaposed within a framework of time and space.

A vibration IS NOT the typical sine wave (chart on right) we see on graphs used through conventional engineering. This sine wave is good and useful for what it is designed to do (mostly frequency, amplitude and phase work) but not for granting true understanding of the inner nature of a real vibration. Once we begin to understand a little more about the inner workings of vibrations we see that this design is not sufficient to convey what is a vibration. This conventional sine wave simply records the increase and decrease of a wave amplitude and tells nothing about the other factors (except frequency and phase) that are integral components to the passing wave front.

It is held that as the wave trace rises above the neutral line it denotes *increasing energy*. As it descends below the neutral line it represents the *decreasing energy* of amplitude. This is the conventional way of looking at it. In reality this is somewhat true but is only a tiny portion of the real and whole story. While the increasing energy state exists what is taking place in the transmitting medium? The particles of the medium are becoming more and more 'compressed' and may be said to be more dense. While below the line the state of affairs is exactly reversed and the medium becomes less dense or more rarefied as the term is used. Science says this zone of greater density is caused by the pressure wave or the pressure front of the wave as it radiates out from the sound source. This is a pretty good rough and ready way of dealing with this issue but it begs the original question.

*What causes particles to come together? A force from the outside or something else? What causes them to separate apart? If we had*

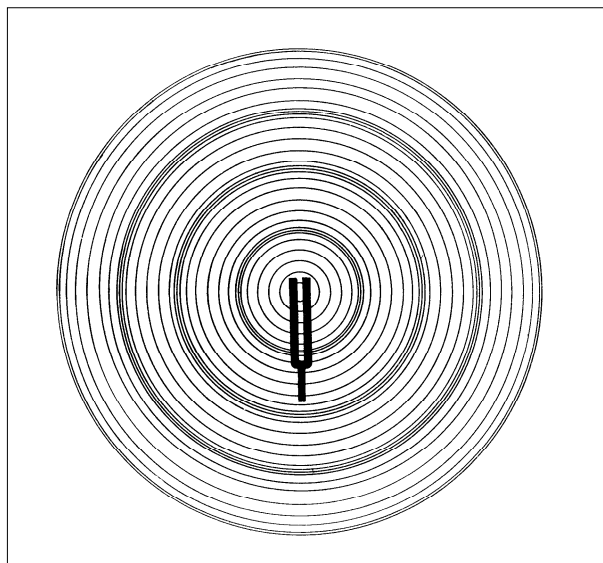


Vibrating string showing the fundamental wave-length at the top; the octave or twice the wave number in the middle and a third or three times the wave number at the bottom.

a basket full of dipole magnetic beads would they not all tend to adhere together into a large 'clump'? If these same beads were to have all the same pole on their surface would they not separate with a velocity, acceleration and distance according to their mass and 'charge'? This rough analogy conveys an idea that the 'clumping' of the beads is not at all due to an "outside force" compelling aggregation. The cause has to do with an inner nature generally referred to as magnetism acting from within and *to the inside of the adjoining bead*. There is no outside influence that could cause aggregation in this particular manner.

Another way of stating the above is to say male and female persons are not attracted to each other because their physical bodies are different. They are attracted because what makes them each tick, *from the inside*, and is attracting to and by that which activates them each inwardly on the higher planes of emotions, mind and spirit. Physical bodies have little if any attractiveness of and by themselves *on the molecular level*. The attraction comes from the ions (3rd level within) and beyond. This property of attraction is revealed in the following quote:

Law of Attraction - "Juxtaposed coherent aggregates vibrating in unison, or harmonic ratio, are mutually at-



Sound waves radiating outward from their source forming a *sound field*. The vibrations form zones of high and low density or pressure concentric from the point source.

tracted". (Keely, pre1894)

As this law indicates a change of polarity is not a complete change of state. Polarity is but a portion of the overall functional matrix of components that make up the totality of the whole dynamic vibrating structure. Since all that there is is vibration the scenario to look to for more understanding is that of vibration. Not a single vibration but the whole plethora of harmonious tones, discordant noises and their relationship one to another.

A change in frequency is also required and also a relationship of pitches must be established as well. It is not difficult to imagine the essence we are after to explain aggregation and separation can be found in the chords of vibration under discussion. Certain chords will cause aggregation and certain other chords will cause the opposite - separation. The key to unraveling this state of affairs is the "degree of relativity" of tones; *i. e.*, frequencies of the component elementary particles or those tones combining together to create a chord whether in harmony or discord with each other. When in harmony there are few beat frequencies or beat tones formed. Beat tones are exceedingly discordant and prevent a harmonization of the tones of the chord. So if we want a harmonious chord that will tend to pull things together

we will gather those tones that give rise to little if any beats.

*"Differentiation of mass, produces negatization to coincident action. By changing the balance of the triune polar flows, one differentiates the mass chord and disrupts any possibility of harmonious or "coincident action". The mass is the result of a combination of these flows." (Keely)*

A beat tone is the result of combining two tones that are not exact matches in frequency. Beat tones are sometimes referred to as "Difference Tones" meaning they are the difference in frequency or that which is left over from combining two tones. Let's say we wish to combine a tone of 400 cycles per second with a tone that has 420 cycles per second. The two will synchronize very well as their wave length is especially the same. However, there is a *difference* of 20 cycles per second. This little difference will make itself heard periodically and the actual chord being sounded by the two tones will "wail" in and out of harmony. If you've ever flown in a twin engine light airplane you know well what this dynamic sounds like as the pilot attempts to keep the two engines running at precisely the same speed.

Differentiation mentioned above is pretty much the same as *refraction*. Refraction is what happens to "white light" as it arrives from the Sun and splits apart into the many colors of the rainbow. The single coincident flow of vibrations from the Sun become modulated by impacting the molecules and atoms in the atmosphere and then 'break' into a spectrum of discrete frequency rates which we perceive as the individual colors. These may even be likened to "beat" tones or beat frequencies.

*"Here, let's analyze healing for the moment, to those that must consciously - as this body - see and reason, see a material demonstration, occasionally at least! Each atomic force of a physical body is made up of its units of positive and negative forces, that brings it into a material plane. These are of the ether, or atomic forces, being electrical in nature as they enter into a material basis, or become matter in its ability to take on or throw off. So, as a group [in prayer] may raise the atomic vibrations that make for those positive forces as bring divine forces in action into a material plane, those that are destructive are broken*

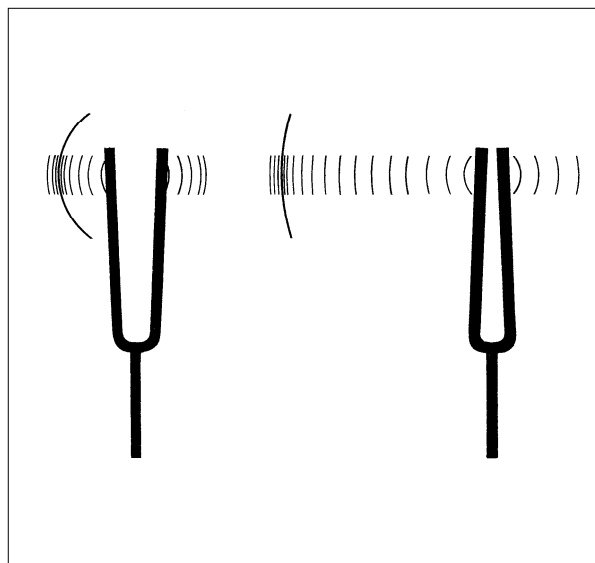
*down by the raising of that vibration! That's material, see? This is done through Creative Forces, which are God in manifestation!" Cayce (281-3)*

These points apply to repulsion or dissociation just as they do to attraction. When discord exists within the vibration matrix (signature or chord) of a mass it will dissociate through mutual repulsion between the centers of vibrations. More and more the importance of the duality known as harmony and discord is coming clear. These are the two major *motivative* forces working throughout the *material* universe. Modern science recognizes this duality as "procreation" and often affirms that the strongest motivation of species is that of self preservation (survival) or the sex drive. Here again we see a failing of modern science. For the above affirmation to exist it must be predicated on the attractive qualities and conditions of individualities. But before the attractions and resultant actions can exist there must first be *individuality* or the resultant of the forces of repulsion. In other words, as important as attraction and sex is it can have no value without its opposite state or condition - that of singleness or individuality. Therefore the law of repulsion is equally important in the grand scheme of things.

Law of Repulsion - "Juxtaposed coherent aggregates vibrating in discord are mutually repelled." (Keely, pre1894)

In other words, it is through and by way of the actions of attraction and repulsion that *individuality* is created. The initial causes of the repulsive type chord is the unsynchronization or lack of harmony between the fundamental of the mass and its inner and higher component frequencies as also those tones of the environment in which the mass is emerged. Just as the tones can combine and produce a beat tone so too can the higher tones combine and produce sub-harmonics that are discordant to the higher 'fundamentals' of the chord.

When considering a wider view of man as he relates to himself within the greater context of the infinite reaches of matter and energy (page 6) there are other urges moving him forward. These are 1) the urge for POWER is manifested from the time the child begins to move



The distinctly important feature of a sound wave is its creation of high and low pressure waves or zones. The vibrating air particles actually get closer and further apart periodically. Under extremely power vibrations various effects are seen in the vibrating or transmitting medium. Refraction and reflection of light or other "rays" or "beams" of vibrations are a well recognized effect of this and are seen as rainbows and mirages. Liquids can cavitate or even boil during this process.

about, and through development as a child, and an adult, and even to old age. In games, in fights, in social preference, in politics, in finances - always seeking more power; 2) the urge for POSSESSIONS is fostered from the time the child reaches out for a colored rattle on to the possession of estates and all forms of wealth and bodily comforts; 3) the urge of LOVE and LIFE is the differentiating force. It is the manifestation of the male and female. It includes the urge for parenthood, the love of humanity, the intellectual uplift of the individual; and 4) the urge of SPIRITUAL UPLIFT and understanding of moral beauty and the advancement of human relations and the "God Within".<sup>31</sup> In these four urges we can readily see the two prime forces at work - the expressive or male force and the assimilative or female.

## Wave Length & Frequency

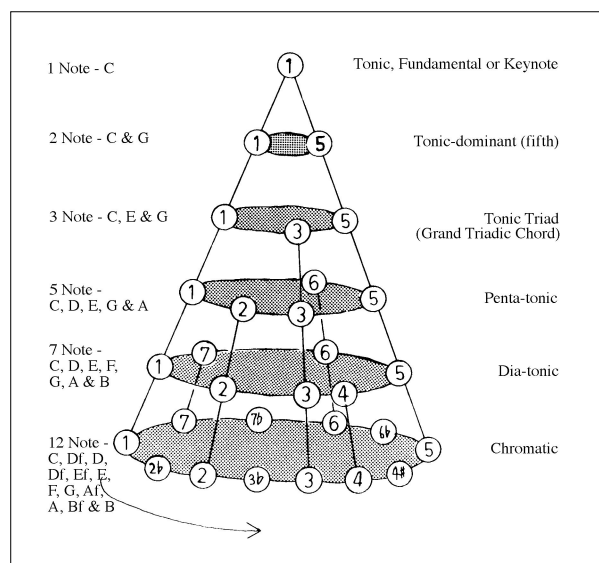
Another compound property or condition of a vibration is its wave length and frequency. Here again is another one of those properties possessing an apparent duality. These two

conditions are really two sides of the same thing. Basically speaking the longer the wave length the lower the rate of vibration or frequency. Conversely the shorter the wave length the higher the frequency. An example of this arrangement can be seen in the chart on page 43. The first vibration is 1 cycle or vibration per second - it has a length of one unit. The next vibration is exactly  $\frac{1}{2}$  the length of the first and therefore twice its rate of vibration. The same principle applies to the third wave which is  $\frac{1}{3}$  of the length and 3 times its rate of vibration.

When two objects vibrate their relationship *vibratorily speaking* is one of relativity of tone or pitch. One vibrates at a given frequency and the other has its own yet different frequency. The two laid up side by side would then present two distinct tones. These two tones bear an arithmetic relationship to each other. Notice the numbers of  $\frac{1}{2}$  and  $\frac{1}{3}$  in the preceding paragraph. These *relative values* refer to the rate of vibration when considered as a ratio or wave length when considered as a fraction. When two tones are compared in this way there is established a musical relationship called *pitch*. This means or refers to the relativity of frequency between two vibrating objects or two tones. Pitch is important because it is the *quality of the pitch* (not so much any given frequency) that establishes those qualities we know as harmony or discord.

*"Harmony is the simultaneous vibration of two or more bodies whose harmonics do not produce discords, and whose fundamental pitches are harmonies of the lowest pitch, or are a unison with the resultant notes or overtones, or undertones, of any two or more of them." (Keely)*

Where we have a physical dimension we have a wave length of that dimension and the frequency is inverse to that quantity. In other words the shorter the wave length the higher the frequency. A vibrating piano or guitar string will vibrate its fundamental as the same length as the string. If the string is a foot long its fundamental will be about 1,000 cycles per second, all other qualities being equal. The tension on the string, its weight, temperature, thickness and material all play a part and will modify the fundamental tone according to



From unison comes a discord that branches and builds the musical scales. A fundamental tone carries through into a full scale in the numbers 1 becomes 2 then 3 then 5 then 7 then 12 - all sacred numbers. This process is also evident in other areas of life. On page 2 is given a brief outline of the multiplicity that exists within the human organism. The beingness of humans can also be charted as we see above. Refer to the footnote on page 2.

their own qualities. So, generally speaking, the lower the number or quantity of wave length units the higher the number of waves per time period.

Law of Linear Dimensions - "The vibration-periods of two similarly circumstanced homologous bodies are to each other as their cubical contents, and therefore the vibration-frequencies of homologous metal plates are to each other as the inverse ratio of their linear dimensions." (Keely, pre1894)

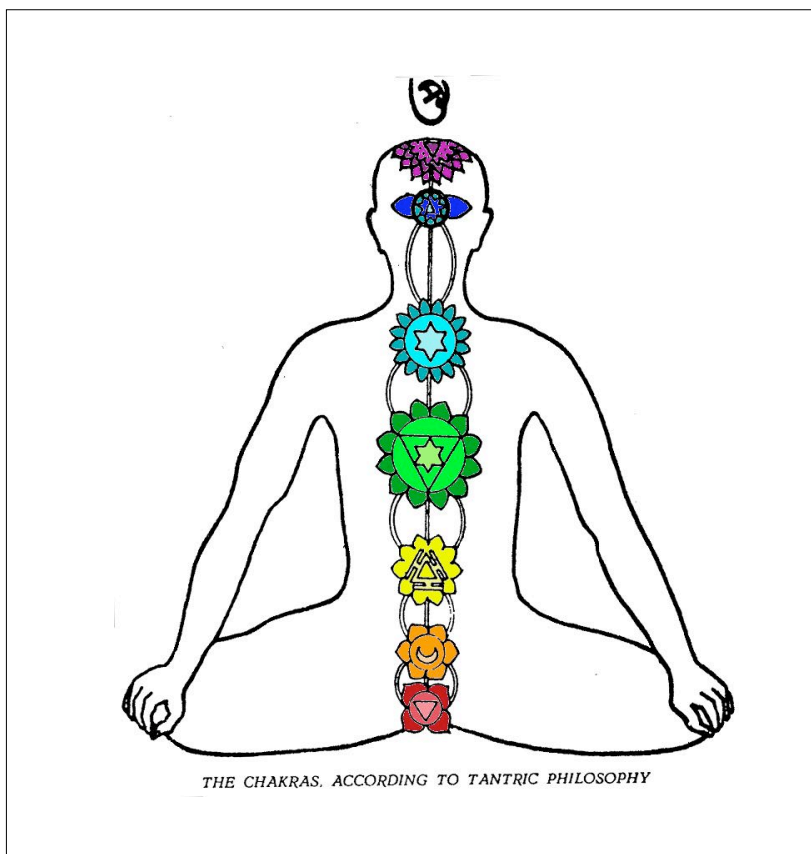
The wave length and frequency are important in that the higher the frequency the greater the energy content and vice versa. This was quantified in Planck's constant and is one of the fundamental principles of Energy/Mass/Velocity/etc. relationships. As we are dealing with the atomic and sub-atomic vibrations of the components of these metals it is easy to realize we are dealing with tremendous quantities and qualities of dynamic energies within and without the body and its component parts, substructures and subsystems. A brief review of the chart on page 6 of this paper will show the whole spectrum and panorama of energy

and matter. We are beings of ENERGY not MATTER as is commonly thought. Matter is simply bound-up energy while energy liberated matter. The two states are one and the same only differing in quantity and quality of harmony/discordant conditions. A brief outline of the comprehensive interrelatedness of these factors can be seen in the chart on page 15.

## Quantizing to One

When dealing with a wholistic system such as we are discussing here it is imperative to see the subject as a single whole. The idea usually associated with frequency and wave length does not do this. The body is a complex whole which is to say it is the entirety of those things that go to make it up. It is not *the sum of its parts* because apples do not add with oranges and neither can hearts be added to livers. Vibrations on the other hand can be added, subtracted, multiplied and divided. A vibration is a vibration no matter what it is called. On page 10 we discussed the three metals as though they were the equivalent of musical notes. The key here is *equivalency* or relative relationships.

A complex set of vibrations all having their own specific and discrete vibration rate can all be brought within a simple framework. This process is called "Quantizing to One" and works like this. Simply reduce all the vibration rates to a common denominator using the fundamental of the group as 1. All



Hindus philosophy gives great credence to the endocrine system which is governed by the involuntary nerve system or sympathetic nerve system. This system is generally referred to as the ductless glandular system. These main endocrine glands are the pineal, pituitary, thyroid, adrenals, gonads (sex glands) and the spleen. It is well accepted now that the hormones secreted from these glands (and others) are responsible for our general well-being and behavior patterns. Imbalances in these glands results in aberrant behavior, crime and anti-social activities. Therefore it is of prime importance that the sympathetic nerve and ductless systems be in correct states of balance and function if a healthful and joyful state is to be achieved and maintained.

other rates then become a multiple of this 1 and the whole issue and the sometimes large numbers become simplicity itself. Music is a geometric and arithmetic construct. As such it obeys the rules of arithmetic which are much simpler than so-called calculus and other modern mathematical nightmares. Nature is simple and obeys simple rules. Only man makes things complicated without needing to do so.

So if C is the root and going from there a musical third we find E. This is the way to handle these relationships regardless of the actual numbers involved. What rules here is not the raw frequency but the relative quantities or pitch of the tones.

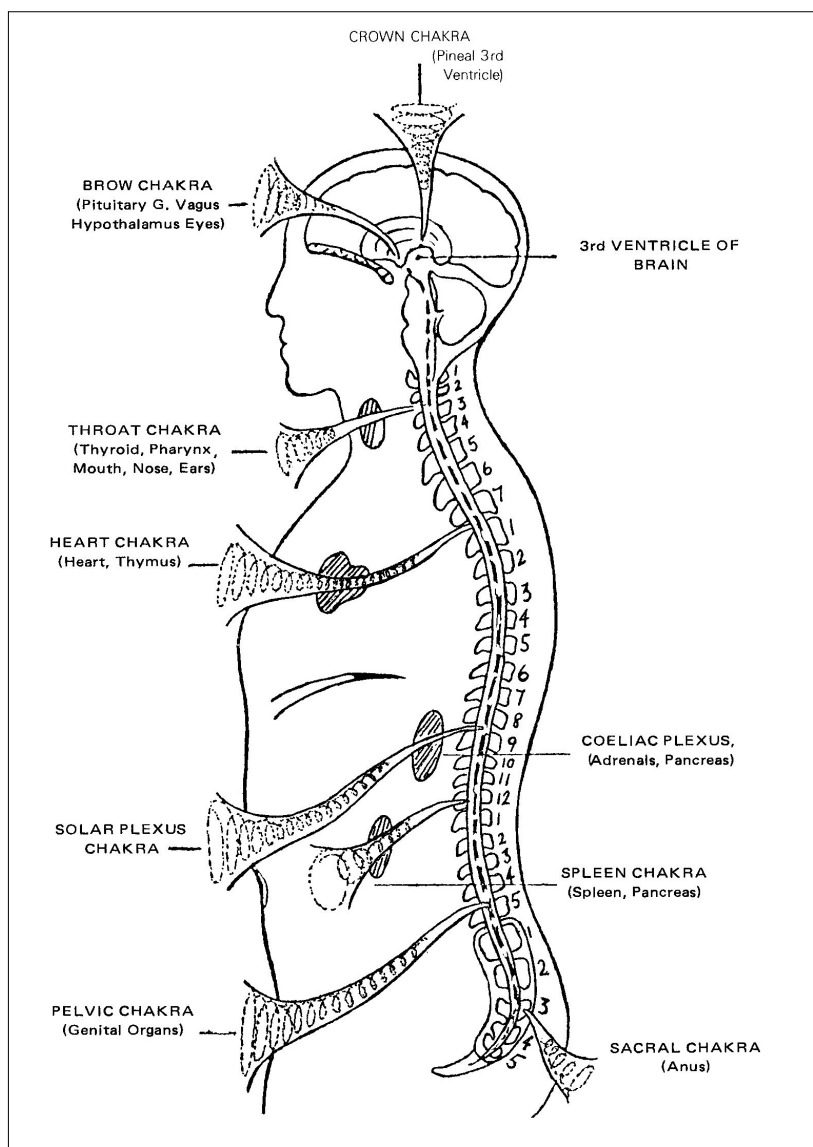
A musical third is expressed arithmetically as Unison divided by 4 then times 5. Or  $C/4 \times 5$ . Therefore we can take C to be any frequency whatsoever and from that compute the rest of the tri-tone chord of CEG by using simple arithmetic. For in-

stance if C is 20 we would have:  $20/4 \times 5 = 25$ . 25 being the value of E. C could be any number under the Sun but E will always be  $5/4$  of its value or a musical third above it. Likewise G would always be a fifth above C or  $3/2$  of its value. In the case of 20 as given G would be  $C/2 \times 3 = 30$ . This is why this author referred to music notation as a form of arithmetical shorthand and reflects the simplicity which Nature uses in all her aspects.

In the above example it is shown how C was *Quantized to One* or made to equal to the value of 1 symbolically. All other quantities of the association are held as ratioed or relative quantities arithmetically to the 1. An exceedingly simple proposition once understood.

## How Does All This Pertain To The Human System?

The human system is composed of everything that is in it. This means the heart cannot be treated as though it were not connected to the rest of the body. The head cannot be treated as though it were its own little world. Although some health professionals still regard body parts as separate and distinct from the balance of the body this tendency is becoming less and less. Also the bodily functions are all connected as well. Therefore when any portion or function of the body is being treated it is as though the whole system is being effected. Which, of

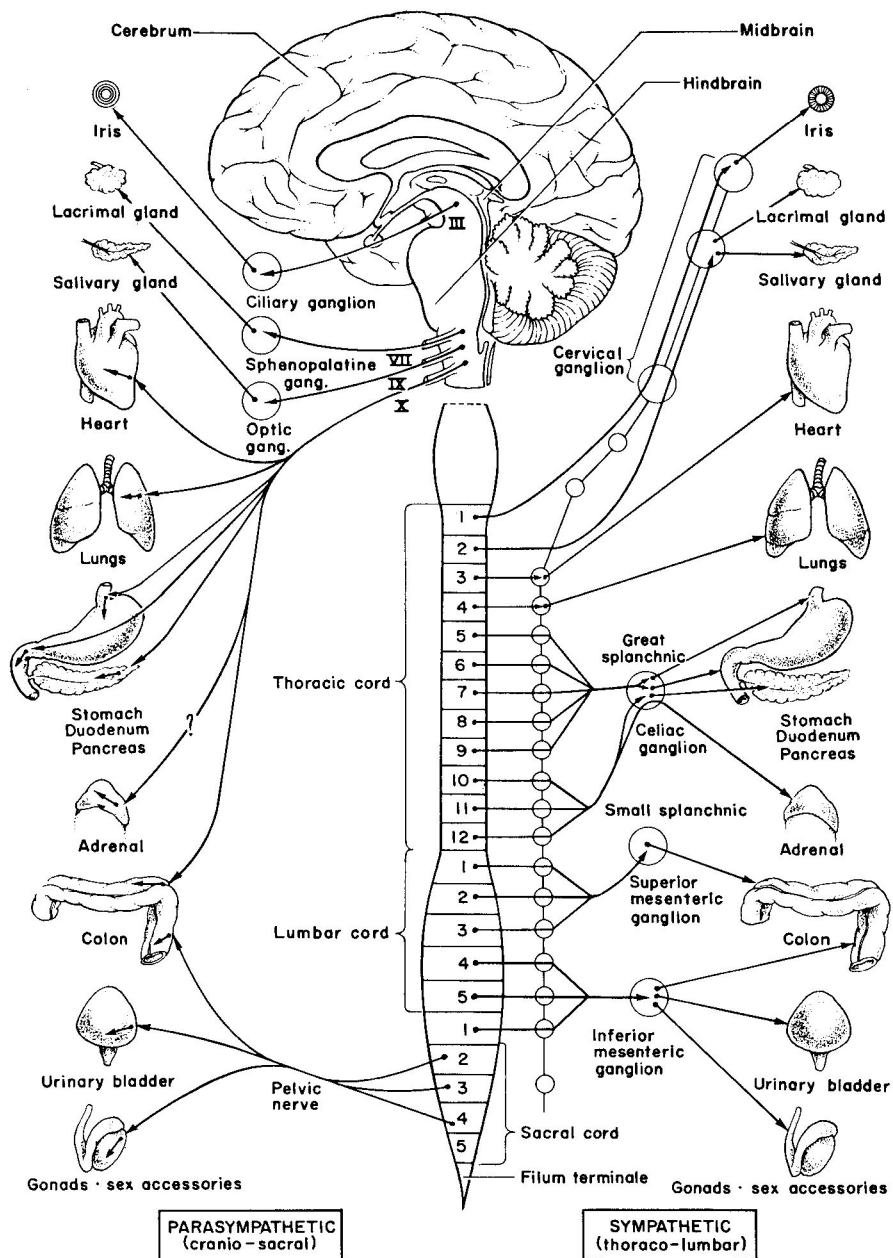


course, it is. The underlying principle of all these systems and sub-systems is vibration. When the tones or pitches of vibration are not in harmony there is dis-cord or dis-ease. These must all be coordinated if there is to be harmony or peace within the system.

*"For the joy of living, in a material experience, is dependent upon the peace of mind -- not indolence but activative peace, activative harmony. Though the entity has seen and has known and touched much dis-harmony; the desire for harmony reaches almost to that which is sought by the musician, in bringing about the arousal of the emotions ... which answer to the chords within the body; whether in movements of the dance, or arousal of emotions for the celestial or terrestrial activity in the emotions." Cayce (880-1)*

The functions are connected via sympathetic vibrations and sympathetic conditions between systems. The following quotes show some sympathetic conditions perceived as ailments but

## AUTONOMIC NERVOUS SYSTEM AND MAGNETISM





correctly diagnosed by Cayce's sight. Thus if these were treated in the 'normal' manner the applications would be to the symptoms and not to the causes and would be a wasted and maybe even dangerous action.

*Q-8: What is causing the pain in [niece's] ear?*

*A-8: "Mostly from a sympathetic condition." Cayce (900-461)*

*"Hence we find both the liver and the spleen involved in the condition; the spleen sympathetically, the liver rather scant in activity through the bile ducts that act upon the lacteal forces that are created for assimilation in the body." Cayce (475-1)*

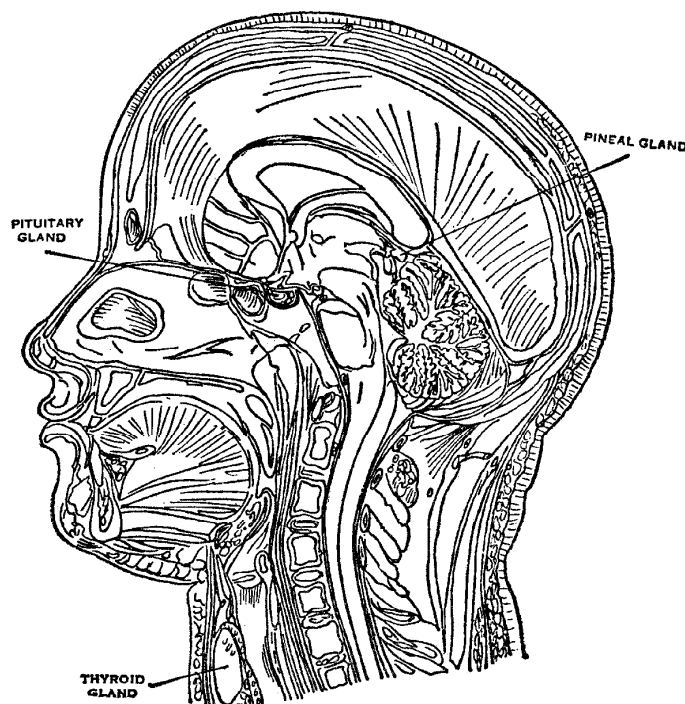
*"Each individual has its own individual problems. Not all are physical. Hence there are those that are of the sympathetic nature, or where there has been the possession by the very activity of same; but gold will destroy desire in any of them." Cayce (606)*

*"Hence stimulating ganglia from which impulses arise - either sympathetically or functionally - must then be helpful in the body gaining an equilibrium." Cayce (902-1)*

*"These are purely SYMPATHETIC conditions, and with the removal of the pressures and with the activities to the body as will produce the NORMAL activity of the organs disturbed, or the nerve system disturbed, we will restore normalcy for the body.*

*The heart's activity is near to normal.*

*"Digestive system we find*



The pineal gland lies near the center of the brain. This gland seems to be the balance of control for the action of light upon the pigment of the skin. It is the light within that reflects the light without. It acts in conjunction with the adrenals in skin pigmentation.

*at times upset. Naturally, from glandular reaction there are periods when there are disagreements as to combinations in foods; there is the lack of the assimilation in the lacteal ducts as of a sympathetic nature." Cayce (1490-1)*

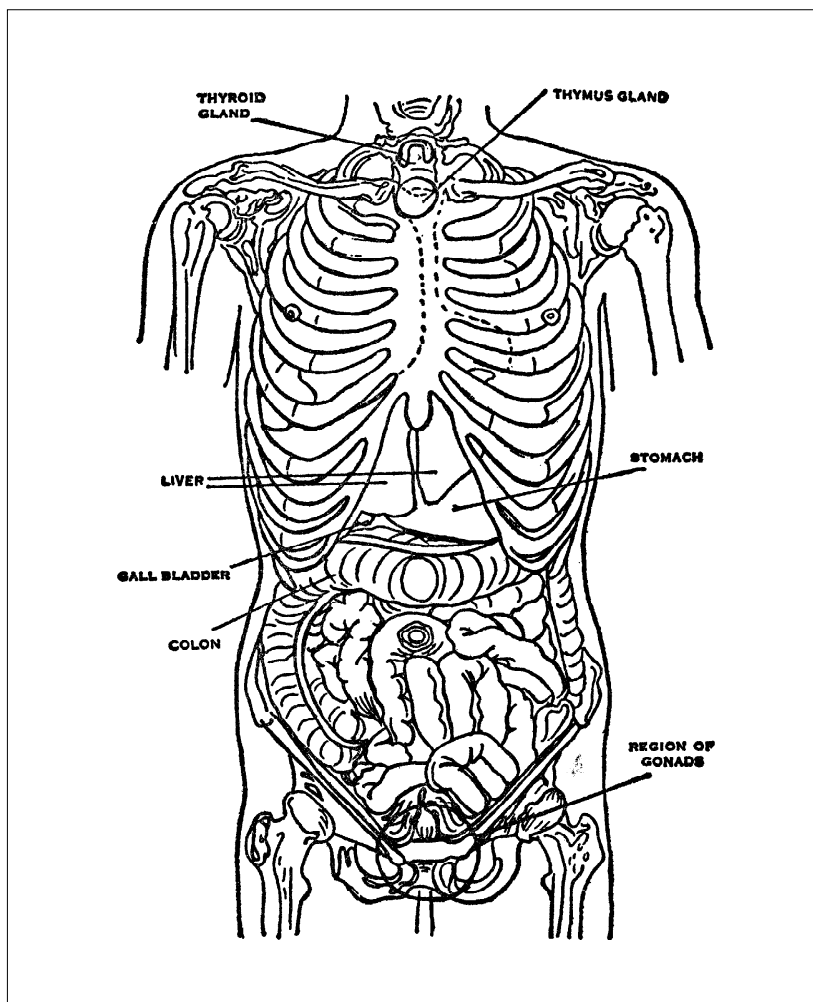
*"In the organs of the pelvis or the genitive organs, as indicated, are rather sympathetic conditions; and with the alterations in diet, in the activities through the portions of the system indicated, these should be the nearer normal." Cayce (657-1)*

*"These, as we find, are sympathetic conditions, and more functional disorder than organic; though, to be sure, there must come organic disorders unless time, patience and persistence is given to the system to allow sufficient time for the recuperative forces of the body to act or respond to those things as may be set up in the system - see?" Cayce (1690-1)*

*Q: "Have I any lung or bronchial trouble?"*

*A: "Rather sympathetic conditions, and mostly indigestion." Cayce (1690-3)*

*"Hence we find pressures or depressing feelings, as of an over amount of gas in the lung; not through the rest of the system except sympathetically." Cayce (1548-1)*



The vegetative system (the gland system) is the seat of the impulses of man. Love is not a result of the thinking mind. It is an endocrine urge. A reasoning mind does not come from conscious thinking. So it is with hates, fears, etc. War does not start by man's reasoning mind, but by primitive urges from the endocrines. Only insanity wishes to kill.

This condition of sympathetic association and *sympathetically evoked* responses is especially true when we speak of this Grand Triplet of Noble Metals. The vibrations from these metals (acting as a Grand Triadic Musical Chord) directly effect the brain, mind, endocrine and nerve systems. This occurs not only on the physical molecular (metallic) levels but also and especially on the higher sub-atomic and etheric levels, *inside the atoms*. As we will see later these three metals and their higher vibrations impact directly onto the Mind Force (see pages 7 and 15) that so completely permeates our living systems. The cerebro-spinal nervous and sympathetic endocrine systems are the 'main arteries' as it were of the Life Forces in and through the physical system. These are the higher foundation systems and small treatments on these may result in major effects elsewhere in the lower physical system.

## Glands - Our Invisible Guardians

It is quite clear that gold is essential to the proper functioning of the sympathetic nervous system. This system being closely allied to the ductless of endocrine system of glands is that which keeps the mind, body and soul together. The hormones excreted within this systems are that which govern our attitudes and emotions and as they are balanced and in harmony so to are our thoughts, emotions and actions. Disturb the secretion of these hormones and the stability and creativity of the person is disrupted. Medical science is well aware of these relationships but it has been lax on investigating the potential of these nobles being added to the system. After all - who would use such valuable metals as something to be put into the human body? Believe it or not there are a few manufactured drugs that cost considerably more than gold and these don't profess to have even a tiny portion of the positive effects gold is believed to have.

Few realize how important this system of hormone production is. The story of the ductless glands or endocrines and their hormones is the story of the human race in its evolvment and unfolding. As these forces were balanced through diet and health-care so too was the society populated by these people. If the harmony was not there - society was enharmonious and chaotic. When the diet was proper and sufficient to support and nurture these elemental forces within the

body so too was the social order of those people.

Many are the horror stories of people overdosing on various hormones whether prescribed or not by a physician. Many are the stories of wonder and joy when a person experiencing hormonal imbalances is brought into balance by proper diagnoses and treatment. An example of just one gland "going-to-lunch" is afforded by a description of an adrenal-centered personality type. This is a person whose adrenal gland is over-active. Hairy, dark, masculine, primitive and strong. Here we have the slave driver for he has such a sufficiency of driving force he can drive others. Among the high salaried persons and men of great energetic positions we have the adrenal-centered types. The adrenals, in conjunction with the pineal, control the pigmentation or darkening of the skin. The dark-skinned and red-haired persons are typically the fiery adrenal-centered persons. In persons who lack adrenal secretion, influenza and diphtheria are most easily contracted. They have a lack of immunizing force. The person who has a good adrenal supply with good thyroid and pituitary action can lead the world. He can be a master among men. Brain fog is often due to adrenal fog. The adrenal type among women is masculinoid. Moles on the skin are the product of the adrenals. The adrenal insufficient is weak, irritable, lazy and likely to be neurasthenic, and has loss of appetite and a general lack of response to stimuli of all kinds.<sup>31</sup> According to the Cayce readings gold, when properly applied to the system will, over time, bring about corrective forces in this all-important system.

*"In meeting the needs of these, we would find that - were those applications as may be had from the use of the Radio-Active Appliance used occasionally; that is, two to three times each week, and at least twice each MONTH use that with the appliance with the vibrations as of the Chloride of Gold in same - this taken CONSISTENTLY, persistently - we will find an equilibrium kept in the body that will be well.*

*Do that. Ready for questions.*

7. (Q) *What is cause and treatment for swelling and red spots over eyelids?* (A) *This the condition as we have given, from the adrenal or endren [endocrine] glands, and these - with the balancing in the system - so that the eliminations are kept normal, will be relieved.*

8. (Q) *Is it for the same reason that the eye-*

*lashes fall out?* (A) *Same reason.*

9. (Q) *What causes the dripping from the body at other than menstruation period?* (A) *This the activity of the system in the glands as related to those of the POOR ASSIMILATION as related to genitivation, and WITH addition of those properties as are an aid to the glands OF the body, especially those of the lyden [Leydig] and genitive system, we will find these will be aided."* Cayce (5612-001)

A coordination of function of the various endocrine glands is the prime role of the gold in colloidal condition. The element "fires" up or amplifies the vibrational energies within the system *as a whole*. If the system is weak it may be seen that the functions are depressed or lacking. The alchemists held the Sun as the ruler of the day time activities of man. Is it so difficult to see the connection between the powers of the Sun and those of Gold - the Sun's representative on the earthy earth plane?

*"IN THE BLOOD SUPPLY, this shows the effect of those conditions produced by abnormalcy in the manner of distribution of forces as are created by assimilation in the system. This due, in part, to those physical conditions as exist in the ganglia of the nerve system from which impulses radiate to the activity of the glands as are brought into activity through the action of digestion and assimilation in the system. Radiating, then, as we find, from the 9th to the 11th dorsal center in the plexus as governs the glands of the system through the activity of the juices from the digestive functioning system on the body. These, in part, affect the phlenic [phrenic] nerve system - this radiating from the 5th - but only reflexly. This as we see, affects both the pancreatic and the gall bladder in the effect of the juices as are necessary for assimilation have upon the particles as are broken up in the vibratory rate given same. Hence the condition as exists in the plasm of the blood itself from same. With the pressure as created there at the time of birth, in the 4th LUMBAR, we have, with that of the pineal gland, the reaction to that of the glands in the system as to the relation of coordinating forces with the plasm of the nerve itself, so that voluntary action often becomes involuntary, especially when there is the cycle of action in the plasm cells that create impressions through the activity of the forces to the brain centers themselves, when there comes that force of the re-vibration through the pineal gland in the base of brain and its reaction in the larger cord itself in those of the lower organs themselves. Operating, then, directly with the adrenal, the endren [Adrenal?, endocrine?], the thyroid, and those of the pancreatic*

effect in that of the lower portion of digestive operation. So that we have this combination, or this condition wherein the system fails to coordinate in brain reaction in the digestive functioning. These may be assisted, as we find, to a near normalcy; yet this will require attention, persistency, consistency, and a great deal of patience and care.

3. To meet the needs, first we would prepare that of the vibratory formation in that of a wet cell battery, as has been given; with this charged, see? charged so that the discharge of same is at least equal to two and one-half ohms.

On the one anode we would connect those of the Chloride of Gold one grain to one ounce. The attachment would be the positive - that is, the first connection, to the base of the brain. The negative, or the larger anode or plate, to the umbilicus. This should be given, beginning with only twenty minutes vibration once each day, gradually increase every five days five minutes until one hour is being given. The poles of these, in this battery, should be both of the copper, as well as the anodes of same. After two cycles, of fifty-six days, then we would change these for a different condition will have been set up in the system. No medicinal properties, or no other applications to the body during this period. Only that as would make or cause the near normal functioning of the elimination through the alimentary canal.

Giving the foods, or the diet should be during this period, only of the vegetable diet, with that of the juices of beef. This may be given as medicine, or teaspoonful given every three hours to keep the strength; and keeping the body quiet, though in the air as much as possible through this period. Cayce (2355-001)

In the reading just given there is great importance given to the *assimilative forces* of the body and how they are subject to imbalances as are every other system in the body. There is some characteristic of gold that modulates or conditions vibratory forces in such a way that they become more active or emphasized or pronounced in their motions. Elsewhere we have given a reading quote that casts a little light on this idea of amplifying the *spark of life* or the impetus to express. Is it this characteristic of gold that brings about a harmonizing or healing condition? This next quote seems to clarify this issue a little better.

*"As the lacteal duct center is that from which all assimilated forces from the body are carried to the various portions of the body for resuscitating forces, then the VIBRATION through the electrical forces of the Gold should stimulate the activity to the various*

*portions of the system so affected.*

While the Hydrochloric Acid is necessary in the system, the Gold - being an acid - will induce such an activity in the ducts and glands themselves as to induce or cause the body, though low in its vitality, to *CREATE* that necessary acid in the present low state.

Not only does the activity of the Gold (Chloride) then, make for this vibration in the body but it produces in the **Endocrinals** - through its associations of the metallic forces (electrical flow) from copper to nickel, through the electric charges, the low form passing through the system - the stamina, as it were, to the plasm of the nerve forces themselves. It also stimulates an increase in the numbers of the leucocyte that are the warriors in the blood." Cayce (988-7)

It would appear from some of the Cayce quotes that these three elements (as metals and as their vibrations) are absolutely vital to a healthy body, mind and soul. As the gold and silver are nearly always mentioned in relation to the brain and endocrine system and some of their more vital functions and responsibilities.

*"The ordinary conclusions of the activity of gold, when assimilated, is incorrect - for these feed directly to the tissue of the brain itself, and - given properly - Silver and Gold may almost lengthen life to its double, of its present endurance." Cayce (120-5)*

According to this then the application of gold and silver to the system would increase, aid, fortify, compliment and extend the Life Forces of the human body. The vibratory forces inherent in these metals enliven and strengthen these major systems via the vibratory etheric sympathetic flows coursing through and about the body. Why gold or why silver has this effect will be better understood as the basic principles of vibration are presented and understood. Some of these factors are beyond the space constraints of this book and have been presented elsewhere.

## Light

Even the healthful undifferentiated Light of the Sun can be traced through spectroscopic analysis as "metal light" showing the lines of iron, gold, silver, platinum and most all other known elements. By shining the light from the Sun into a spectroscopic analyzer various lines and shadows are made evident. From these

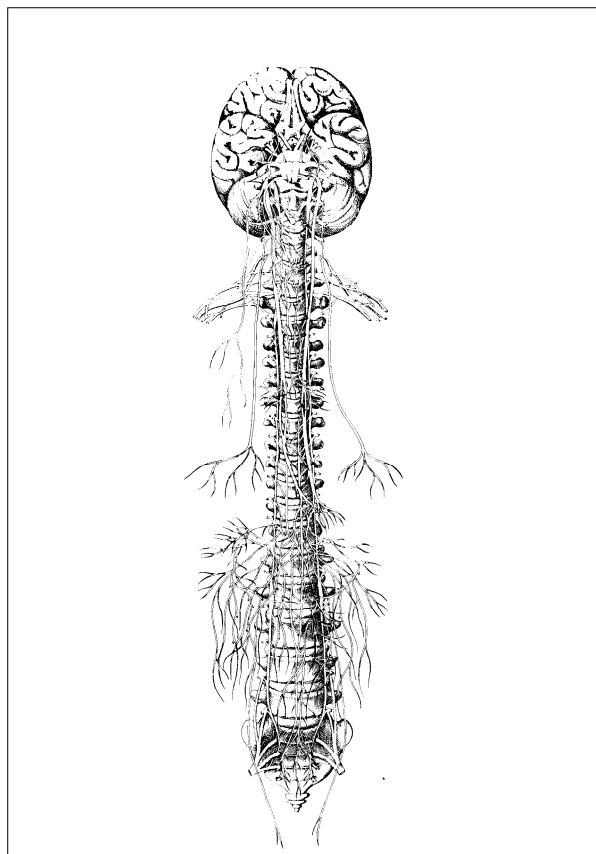
lines and shadows it is possible to discern the various combinations of spectra lines that belong to certain elements. In this way helium was discovered on the Sun long before it was discovered and isolated here on earth. Here, in this undifferentiated or White light streaming from the Sun are all the elements required for a healthful body. Within this coincidental stream or flow of “white” light are harmonically combined all the vibration of all the elements making up our earthly plane. These component frequencies of Solar Energy also contain all of the higher vibrations associated with the etheric (spirit) and MIND realms.

There are those scientists who claim it is possible to “distill” the light of the Sun and thereby ‘integrate’ from it whatever element desired. Walter Russell worked on this idea with some success and ancient texts such as *Phylos* the Tibetan and other metaphysical and alchemical works elude to this possibility.

The role of light in health cannot be disputed. Regarding gold, silver and platinum it can be shown how the combinations of them or even used singularly are directly associated with light. For instance any of the platinum elements may, when stimulated with appropriate vibrations, emit great waves of visible light. Which accounts for some of them being used in electric lighting. It has been shown how gold relates to the musical note C which is directly related to the color of light know as red. Likewise silver is G and blue light and platinum is E as in yellow light.

Right here it can be seen some of the difficulties associated with conventional sciences. While it is maintained herein that photons are a *shared property and construct* between all molecular things - modern science fails to make this connection. This failure or most likely this unwillingness to acknowledge these inner connections between all that there is has hindered and even crippled science and its attendant products and services - not to mention its “reputation” so jealously spoken of.

Visible light is composed (simply speaking) of three primary colors - blue, red and yellow and four lesser composite colors. These prime three are the most harmonious of the colors



The sympathetic nervous system based on the research of Bartolommeo Eustachio, 16th century Italian author-physician.

when in combination just as their three musical notes, G, E and C form the Grand Triad. An interesting aspect of these three colors (which are really three different frequency ranges) is the red light has a warming or thermal (thermism) effect whereas the blues have ionic (valence) or chemical effects (chemism). It is for this reason that red light is used in photographic dark rooms as red light does not effect chemical reactions where blue light would completely “develop” the exposed films. Likewise where the red or infra-red light tends to heat things the blue or ultraviolet light is cold<sup>13</sup>. Just as the notes form wonderful musical harmonies and the colors form “color-tones” the gold, silver and platinum come together as metals and form harmony in form and substance *and vibration*. This generally unrecognized hidden quality of light is born out in the following quote on healing with different light frequencies or colors.

Q-1. What light should be used [for healing]?

A-1. "Any penetrating light. That of the dry heat, or that that acts the quickest with the blood stream, see? for, as is seen, this is the effect of light - of whatever nature that may be applied to a body: All bacilli or all germs are afraid, as it were, of light - or light is destructive to all.

Some, as is seen, accumulate in heat that is not penetrating. Hence the variations in the quartz light, the ultraviolet light, the blue light, the red light - each one taking out that that filters through the system. Hence for this, that one most penetrating without being destructive to the tissue proper." Cayce (140-21)

The different types of light or heat mentioned above are as the similarities in the gold, silver and platinum metals with their associated tones and colors. For instance, the addition of silver would positively impact a situation where blue (chemical or cold) light was called for. Likewise the use of the note G or music or tones played in the key of G would also be beneficial.

The phenomenon called heat (hot light) is in actuality a vibratory condition. Heat is a vibration of a given frequency range. The light range known as infra-red is a range of vibrations just below those of visible light. These light waves cannot be seen with the naked eye

but are easily seen with infra-red cameras and films. However it is not so well known that this range is quite broad and falls in frequency almost to what is called ultrasonic ranges. While the visible light range is but one octave the infra-red or heat range covers eight or more octaves.

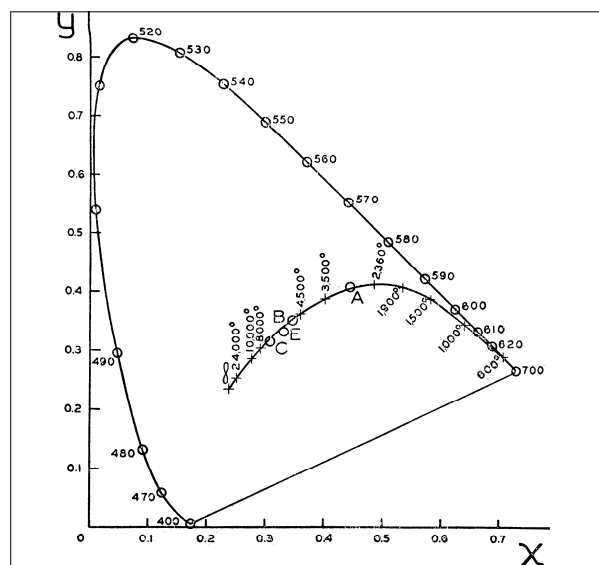
Here in our discussion of colloids acting within the human body we must review this law as it specifically discusses atoms in a chemical combination. In other words, atoms closely associated together affect vibratory modulations on each other. This is referred to as an *evoked response* and is initiated and maintained via sympathetic vibrations between the associated particles *or their substructure or component particles*. When the atoms of gold, silver or platinum are appropriately applied within the body and closely associated with a cellular structure they will impart their relative vibrations to the surrounding environment of cells, etc. This is a FACT. The only point to discuss is the quality of this modulation and the effects derived therefrom.

Atoms are but *oscillating bundles of vibrating energy*.

When in close proximity to each other these vibrations, and the oscillations of the atoms

ENERGY RADIATED BY A BLACK BODY IN THE INTERVAL FROM 559.5  $m\mu$  TO 560.5  $m\mu$

Temperature (Degrees Kelvin)	Energy Radiated (Ergs per second per $cm^2$ )
2000	$1.86 \times 10^4$
2200	$5.98 \times 10^4$
2400	$1.58 \times 10^5$
2600	$3.58 \times 10^5$
2800	$7.22 \times 10^5$
3000	$1.33 \times 10^6$
4000	$1.12 \times 10^7$
5000	$4.05 \times 10^7$
6000	$9.58 \times 10^7$
7000	$1.78 \times 10^8$
8000	$2.86 \times 10^8$
9000	$4.16 \times 10^8$
10,000	$5.64 \times 10^8$
15,000	$1.49 \times 10^9$
20,000	$2.59 \times 10^9$
25,000	$3.77 \times 10^9$



Above left shows correlations between the temperature in Kelvin to the over-all energy content of light waves. The above right show correlations between the frequency of light waves and their energy content. Information taken from the *Handbook of Colorimetry*, 1936, MIT, Cambridge.

themselves, have weaker and stronger influences on neighboring atoms. Keely does a wonderful job in presenting the creative and resultant actions in a simple and straight forward manner all the while preserving the all-important aspect of *relativity of force*.

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." (Keely, pre1894)

In this Law of Heat it can be seen how the vibratory modulations from a creative acoustic source (an atom or molecule of gold, silver or platinum) can and does effect surrounding vibration chords and structures. This principle is the same form of action found in radionics and homeopathic treatments. This is a similar phenomenon found when a person of a strong will or personality joins of group or gathering of people and causes a noticeable influence upon the people gathered.

Light and sound are intimately connected by the *natural progression of harmonics and partials*. These are vibrations of relative number or frequency (pitch). Just as a musical note, say G, is vibrating at a given and ascertainable pitch so too do all of its higher and lower harmonics. Generally these can be measured and calculated arithmetically. Accordingly there are harmonics too low in amplitude or too high in frequency for science's instruments to measure. This lack of more perfect instrumentation, however, does not preclude their existence *and influence*. This subtle inner connection through natural processes of harmonics is referenced in Keely's Law of Harmonic Pitch.

Law of Harmonic Pitch - "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." (Keely, pre1894)

## **No Sledge Hammers Allowed**

Generally speaking modern science requires (through the so-called Law of Conservation of Energy) that force or energy needs to be imparted into a structure before it can be modified. For instance for modern science to "split" an atom tremendous quantities of energy are "required" for the operation. Literally billions of dollars and billions of ergs of energy are expended in this process which is decidedly expensive and questionable as to practical uses of any results they may obtain. Likewise if more "splitting" is required so too are money, time and energy - a bigger sledge hammer is acquired and applied.

But is all this necessary? Not hardly. The atomic structure is composed of myriads of vibrations all coordinated together and all "singing" in harmony. A disturbance of this harmony would render the structure unstable and if maintained would disrupt the dynasphere. The vibrating chord can easily be disturbed by applying discordant tones or vibrations to the structure. A tiny input of energy is all that is required but this energy application must be precise to work. That small amounts of energy can release larger amounts of energy is academic. Through resonance or the ever increasing application and *storing* of an outside energy within a resonant structure is a well recognized fact. In this process of centralizing and phase matching is the "planting" of the energy seeds that will consequently amplify the incoming with the resident wave forms (eigenfrequencies). The result being a much greater manifestation of energy form/phase shifting. Modern science refers to this increased (over unity) emission of vibratory energy as *Anti-Stokes' Emission* or *resonance radiation*.<sup>13</sup> The Takoma Narrows bridge is a good example. The following information on cavitation is an even better (and well recognized) example of leveraged energy.

A lesser known phenomena called *Sonoluminescence* is light being liberated from water (or other liquid) when subjected to tremendous sound or mechanical vibrations. Although this phenomenon is not yet fully understood by science it nevertheless is well recognized<sup>12</sup>. The light being liberated is a pale blue and only visible under the proper conditions. Sonoluminescence is closely asso-

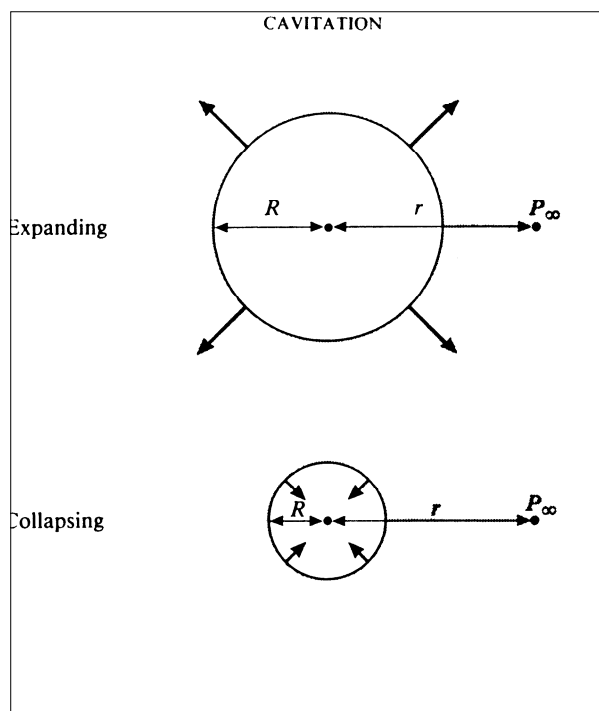
ciated with another sound induced phenomenon called *cavitation*. Cavitation is the spontaneous creation and collapse of tiny microscopic vapor filled bubbles in a fluid, usually water when subjected to tremendous sound vibrations. These little bubbles during their collapse may *release pressures and forces many times greater than the initiating force*. What are the true causes of this release of light by sound? Is it a factor of the wave forms discussed earlier? Is the light being released or is it generated? Do you suppose the introduction of gold, silver and platinum or the *vibrations intimately associated with them* may produce the same? Does like really beget like?

This cavitation process is the very same as the implosion mentioned and developed by Victor Schauburger and later by Walter Baumgartner. These two primarily worked with vortex phenomena which occurred in water. Under hydrodynamic cavitation, the fourth type, there is a subset called *vortex cavitation*. Keely also liberated or generated his etheric vapors from water and referred to the release of energy as behaving in a vortex pattern.

*"Were it not for the intense vortex motion attending the dissociation of water into Hydrogen and Oxygen, the ether could not be held suspended either in the molecular or atomic envelopes. This vortex action is caused by the differential conflict between terrestrial condensation and solar tensions, the outflow and inflow, which also produces light." Keely*

A simple explanation of cavitation is this: if a vacuum is created very quickly on the surface of water it will 'boil'. This is a low form of cavitation. This process of boiling is in reality the liquid moving into the vapor phase. It is the dissociation of the molecules of liquid water into simpler molecules and atoms of water. In other words the liquid becomes a gaseous vapor *but without pressure*. If the liquid becomes a vapor with the use of heat it will develop a pressurized form of vapor or steam.

During the process of liberation of the aliquot or component parts of water (its molecules and atoms) Keely also recognizes the release of photons in the form of light. This is the same phenomenon recognized by modern science as *fluorescence* and again as *sonoluminescence* mentioned earlier. There are four ba-



The in and out motion of a cavitating bubble as it vibrates. Notice the similarity between this image and the one on page 21. This in and out motion is the Law of One in its natural motions.

sic and recognized types of cavitation:

Optic cavitation occurs when, say, large pulses of a Q-switched ruby laser are focused on a liquid. Breakdown of the liquid occurs and bubbles are formed. The bubbles can then be photographed by a high speed rotating mirror camera.<sup>12</sup>

Particle cavitation is based on the growth of bubbles in a superheated liquid. If a charged particle is sent through the liquid it leaves an ionization trail for a fraction of a second. Some of the energy from these ions goes into a few fast electrons, which can give up about 1000 electron volts of energy in a small volume to produce rapid local heating. If the liquid has been superheated by expansion, boiling will occur along the track which will appear as a line of tiny bubbles.<sup>12</sup>

Acoustic cavitation occurs in a non-flowing system where the ambient pressure can be varied by sending sound waves through the liquid. If the amplitude of the pressure variation is great enough to bring the pressure locally down to, or below, the vapour pressure in the negative parts of the sound cycle traversing the liquid, any minute cavities or bubbles will grow. If the pressure amplitude is increased to produce zero, and then negative, pressures (i.e. tensions) locally in the liquid, the bubble growth is increased. The tiny bubble is thus set into motion, growing and contracting in the sound field.<sup>12</sup>



Hydrodynamic cavitation occurs in a flowing system, the liquid velocity varies locally and at the points of highest velocity, low pressures and cavities occur. There are subsets of cavitation within the hydrodynamics model and are very important in the study of the luminiferous ether.

Incipient cavitation is the term used to describe the type and stage of cavitation that is just detectable as the cavitation appears.

Desient cavitation is the term used to describe cavitation just before it disappears.

The conditions which mark the boundary or threshold between no cavitation and detectable cavitation are not always identical. For example, the pressure of disappearance of cavitation has been generally found to be greater, and less variable, than the pressure of appearance.

Three cases of flow cavitation arise:

1. Travelling cavitation occurs when cavities or bubbles form in the liquid, and travel with the liquid as they expand and subsequently collapse.
2. Fixed cavitation occurs when a cavity or pocket attached to the rigid boundary of an immersed body or a flow passage forms, and remains fixed in position in an unsteady state.
3. Vortex cavitation occurs in the cores of vortices which form in regions of high shear, and often occurs on the blade tips of ship's propellers - hence the name "tip" cavitation.<sup>12</sup>

The expanding and collapsing cavitation bubbles may contain a gas, a gas and vapor or just vapor. It is understood that these gases or vapors are very dynamic and possess unique and unusual properties. Modern science has not yet done comprehensive study on these gases and vapors. During this process there is evidenced several phases of a substance simultaneously. First there is the liquid phase; then the gaseous phase; an ultra-gaseous or plasma phase and ultimately a sub-atomic or etheric phase when the photons are liberated as light. No doubt there are other forms of matter and energy being release if we but had sufficiently fine instrumentation and understanding to look for and record them.

Water when subjected to appropriate vibrations will break down into its constituent parts - hydrogen and oxygen. When other forms of vibration are brought upon water it will also

release heat (infra-red vibrations) and light. All of these and more can be liberated from plain liquid water when the proper conditions are met. The result would be the 'generation' of a vapor of extraordinary characteristics one of which is luminosity.

The vapors released during the cavitation process is held by this author to be none other than the luminiferous etheric vapor John Keely liberated and worked so much with during the late 1800s. He made many machines to generate or liberate this vapor from water and then made many more machines that would use this etheric vapor as a prime mover or motivating force. The original Keely Motor of so much fame operated on this vapor as did the pneumatic cannon and the disintegrator of stone demonstrated in 1883.

Later in his work, as late as 1888-1889, he discarded the etheric vapor as a working fluid and went directly to using pure sympathetic flows of higher energy forms and sources. In other words, he used higher frequencies of a more *pure tonal quality*. Remember where we discussed the undifferentiated triple modes of a pure wave form? Keely used a wire made of gold, silver and platinum to generate and transmit these ever higher and purer vibrations. Through this process he was enabled to release or liberate LIGHT and MIND (LIFE) FORCE. The following excerpts show this progression and change-over quite distinctly.

*There were many problems which Mr. Keely has had to solve before he could adapt his vibratory machinery to the etheric vapor flow. The true conditions for transmitting it sympathetically through a differential wire of platinum and silver have now been attained, after eight years of intense study and elaborate experiment. The introductory indications began to show themselves about two years ago, but the intermissions on transmission were so frequent and so great as to discourage Mr. Keely from further research on this line. Then came one of those "inspirations" which men call "accident," revealing to him "the true conditions" necessary to produce a sympathetic flow (of etheric vapor), free of differentiation, proving conclusively the truth of his theory of the law governing the atomic triplets in their association.*

*Differentiation, by compound negative vibration of their neutral centres, causes antago-*

nism, and thus the great attractive power that aggregates them becomes one of dispersion or expansion, accompanied by immense velocity of rotation, which carries its influence through the whole volume of air, 230 cubic inches contained in a sphere, within its  $33 \frac{1}{3}$  chord of its circle of coincidence. By this wire of platinum and silver the current of force is now passed to run the vibratory disk, thus altogether upsetting the "compressed air" theory of Professor Barks, Dr. Hall, and others of less note.

When Keely obtained continuity of motion (for a time) in his engine he thought that his last difficulty had been overcome: but, up to the present time, he has not succeeded in governing its speed nor in controlling reversions. He has, however, again reduced in size the instrument with which he produces the etheric vapor force. From 1882 to 1884 the "Generator" was a structure six feet long and correspondingly wide and high; but, failing in his attempt to make an automatic arrangement upon which its usefulness in mechanics depended, Keely found a new standard for research in an experiment often made by himself, but never before successful, which resulted in the production of a machine in 1885 which he named a "Liberator"-not so large as a lady's small round work-table. Continuing his labor of evolution Keely within one year made such astonishing progress, from experiments with this beautiful piece of vibratory mechanism, as to combine the production of the power, and the operation of his etheric vapor cannon, his engine and his disintegrator in a machine no larger than a dinner plate, and only three or four inches in thickness. This instrument was completed in 1886, up to which time his experiments had been conducted upon a principle of sympathetic vibration, for the purpose of liberating a vaporous or etheric product. His later experiments have been confined to another modification of vibratory sympathy; and the size of the instrument used now, 1888, for the same purpose is no larger than an old-fashioned silver watch, such as we see in a museum collection. The raising of a lever with an apparent uplifting expansive force of between 20,000 and 30,000 pounds to the square inch, the running of the engine, the firing of the cannon, are conducted without one ounce of pressure in any part of the apparatus, and without the production or presence of what has been known as Keely's ether. The force is now transmitted along a wire (of platinum and silver), and when the lever is lowered there is no exhaustion, into the atmosphere of the room, of any up-lifting vapour (ozone), as was always the case when the etheric vapor was used in this experiment; nor is there any vapour impinging upon the piston under the lever to raise it. (Keely)

During those exciting times of the late 1800s the ether was a well recognized and developed theory and process. Why we ever left this substance out of the text books is not a part of this book and may be found elsewhere more fully explained.

One of the intriguing properties of the ether was its *luminosity*. Under certain conditions this fabulous vapor emitted light and was referred to as the "luminiferous ether". Keely liberated this luminiferous ether from water with high frequency sound waves. Tesla demonstrated the luminiferous ether developed from high frequency electromagnetic or sound waves. Today we see this emission of light from high intensity sound waves acting in water and we call the light emission as sonoluminescence. What goes around comes around. It is this light (with the associated etheric (water) vapor and its associated pure sympathetic vibratory flows as also the coincidental magnetic and electric vibratory flows) that play such an important role in the healing processes detailed in the Cayce readings and the subject of this paper.

**During the process of cavitation and sonoluminescence in water there is created a water vapor and light. The water vapor together with the light is the luminiferous etheric vapor Keely and others referred to.**

*"The luminiferous ether - the compound-interetheric element - in other words, celestial mind force - is the substance of which all visible and invisible things are composed. It is the great sympathetic protoplasmic element - life itself. Its sympathetic outreach is mind flow - or will force - actuating sympathetic polarization to produce action and sympathetic depolarization to neutralize it. Polar and depolar differentiation result in motion. The ether has for its attendants gravity, electricity and magnetism, the triple conditions born of itself. It is the Soul of Matter, from which all forms of motion receive their introductory impulse."*

*"Corpuscular activity represents the outflow of the ether from the luminiferous toward neutral centers of aggregation revealing the connecting link between mind and matter. This luminosity has no thermal accompaniment, although, paradoxically, all thermal conditions*

*emanate from etheric vibration. The tenuity of the ether accounts for this. It is only when the streams come in contact with crude matter that heat is evolved from its latent state together with a different order of light, from the luminiferous ether, the sun being the intermediate transmitter." John Keely, circa 1880*

The concept of light from vibration is not strange to science. Other than the *emission or flow of light particles (photons)* from the effects of sound and cavitation there are other forms:

fluorescence: the re-emission of light from a vapor or liquid under stimulating influence of an incident radiation. Later on much more will be said about fluorescence and over-unity energy liberation.

phosphorescence: the re-emission of light from a solid under stimulating influence of an incident radiation.

photoluminescence: produced by the absorption of light, usually ultra-violet radiation.

cathodoluminescence: luminescence excited by accelerated electrons or cathode rays.

crystalloluminescence: may occur when solutions crystallize.

pyroluminescence: luminescence produced by flames.

lyoluminescence: light accompanying the solution of crystals of lithium, sodium or potassium chlorides which had been colored by ex-

posure to cathode rays.

radioluminescence: luminescence excited by X-rays or accelerated alpha or beta particles; also called X-Ray Luminescence.

electroluminescence: produced by the application of an electric field.

triboluminescence: light radiation produced by a substance subject to mechanical forces, e.g. grinding sugar in a mortar; also called

piezoluminescence.

chemiluminescence: light emission from a chemical reaction.

bioluminescence: light from a biological process, i.e. glow worm or firefly.

thermoluminescence: a less common form of mineral luminescence which is produced when substances are heated to temperatures below ordinary redness.<sup>12&13</sup>

Of the types of emitted light mentioned above nearly all may at one time or another be present in the human body. Indeed, light is an inherent part of our system because every molecule is made of atoms and every atom contains an electron and *every electron contains photons*, the quantized particles of light. It has been said we are creatures of light and this assertion is truer than previously believed. We will get more into this light business later. A fluid under proper vibratory stimulation would be a luminous fluid. Thermal emissions

## Ether or Æther

"The luminiferous ether - the compound interetheric element - in other words, *celestial mind force* - is the substance of which all visible and invisible things are composed." Keely

"Æther is an atomolic liquid 986,000 times the density of steel." Keely

"The fundamental mode of vibration changes as we reach the fifth subdivision [of matter], to the dominant, the diatonic third of the mass chord, which controls the vibratory states of both the etheron and interetheron. The awful might concealed in the depths of the etheric and interetheric subdivisions utterly transcends anything Science has ever known. Even the theoretical energy value of radium now accepted by Science, pales into insignificance in comparison to the energy value of an equal amount of water subdivided to the etheric or interetheric state." Keely

According to Rudolph Steiner there are four different types of ether:

Life Ether  
Light Ether  
Chemical or Tone Ether  
Warmth Ether

stream from the body and are a low form of light and may be easily seen with the proper equipment - an infra-red camera and film. Ultra-violet emissions cannot be seen either with the naked eye but are wonderfully beautiful with proper devices. We really are light beings. Many of the body fluids such as nasal secretions, blood serum, leukocytes, semen, saliva, pus, urine and the teeth are responsive to ultraviolet light and will fluoresce when illuminated. Many foods we put into our bodies are fluorescent such as vinegar, milk, sea water, teas and fruit juices. Interestingly different blood sera affected by different diseases also fluoresces with different colors<sup>13</sup>. The luminiferous ether of the last century IS a reality and is fundamental to life. What does Cayce say about this luminiferous ether? Actually, he had a LOT to say:

*Q.: Ether may be defined as the combination of a higher plane, leading us to metaphysics, to where every consideration of the atom finally leads one.*

*A.: This is correct - for, same as the statement of positive and negative forces as relating to gravitation that act upon the individual's DEVELOPMENT, or individual's application as is occupied from within itself. Hence, as is seen, there are (This may be an illustration for this same condition) certain CHARACTERS of disease that accentuates mental forces, or the metaphysical activity of a body. There are others that so DULL the senses as that they become one-sided, or only passive, not positive; yet a NORMAL, perfectly well and normal mind as of being so active as to be considered by others in its activity as of being unbalanced, but only is it considered PECULIAR." Cayce (195-70)*

The two above quotes are quite similar in content and meaning. The so-called etheric realm of matter and its associated requisite vibratory components are that which leads to the MIND/LIFE FORCE and that which governs same. (See Appendix I for greater detail on the ether.) The underlying principles are sound as vibration and the rules or laws that govern same. There is sound and there is light being one and the same and manifest similarly by discrete degrees: notes for sound and colors for light. This differentiation into component or aliquot parts is generally called refraction or differentiation of the Full Harmonic Chord. (See graphic on page 45.)

*"Each body, each activity, each soul-entity vibrates better to this, that or other color... Colors are naturally the spiritualization of tone or sound..." Cayce (288-38).*

*"The fundamental mode of vibration changes as we reach the fifth subdivision [of matter], to the dominant, the diatonic third of the mass chord, which controls the vibratory states of both the etheron and interetheron. The awful might concealed in the depths of the etheric and interetheric subdivisions utterly transcends anything Science has ever known. Even the theoretical energy value of radium now accepted by Science, pales into insignificance in comparison to the energy value of an equal amount of water subdivided to the etheric or interetheric state." (Keely)*

Do wonders never cease concerning this most curious of substances - the ether? For a more complete round-up of what the scientists of the last century said about this enigmatic substance please see Appendix I. To them the ether was a real and vital thing. The fact of the matter is Michaelson and Morley DID NOT PROVE THE NONEXISTENCE OF THE ETHER. They simply proved and readily admitted to the fact that THE ETHER COULD NOT BE MEASURED with *their* instrumentation. But why do we discuss this awesome material here? Because an awareness of the ether allows us the ability to grasp the true object of our search.

*"Although physicists know that this extraordinary influence exists between inanimate objects as a class, they look upon the human organism as little more than a machine, taking small interest in researches which evince the dominion of mind over matter. Keely's experimental research in this province has shown him that it is neither the electric nor the magnetic flow, but the etheric, which sends its current along our nerves; that the electric or the magnetic bears an infinitely small ratio to that of an etheric flow, both as to velocity and tenuity; that true coincidents can exist between any mediums-cartilage to steel, steel to wood, wood to stone, and stone to cartilage; that the same influence (sympathetic association) which governs all the solids holds the same governing influence over all liquids; and again, from liquid to solid, embracing the three kingdoms, animal, vegetable and mineral; that the action of mind over matter thoroughly substantiates these incontrovertible laws of sympathetic etheric influence; that the only true medium which exists in nature is the sympathetic flow emanating from the normal human brain, governing correctly the graduat-*

ing and setting-up of the true sympathetic vibratory positions in machinery necessary to success; that these flows come in on the order of the fifth and seventh positions of atomic subdivision, compound ether a resultant of this subdivision; that, if metallic mediums are brought under the influence of this sympathetic flow they become organism which carry the same influence with them that the human brain does over living physical positions-that the composition of the metallic and of the physical are one and the same thing, although the molecular arrangement of the physical may be entirely opposite to the metallic on their aggregations; that the harmonious chords induced by sympathetic positive vibration permeate the molecules in each, notwithstanding, and bring about the perfect equation of any differentiation that may exist - in one, the same as in the other - and thus they become one and the same medium for sympathetic transmission; that the etheric flow is of a tenuity coincident to the condition governing the seventh subdivision of matter-a condition of subtlety that readily and instantaneously permeates all forms of aggregated matter, from air to solid hammered steel-the velocity of the permeation being the same with the one as with the other; that the tenuity of the etheric flow is so infinitely fine that any magnifying glass, the power of which would enlarge the smallest grain of sand to the size of the sun, brought to bear upon it, would not make it visible to us; that light, traversing at the speed of 200,000 miles per second a distance requiring a thousand centuries to reach, would be traversed by the etheric flow in an indefinite fragment of a second." Clara Jessup Bloomfield-Moore, 1893.<sup>8</sup>

So now we are getting down to the nitty-gritty - MIND. The issue is the MIND of man and the vibratory composite of its make-up and its actions and dynamical vibratory components. Much is to be said about Mind as opposed to brain which is but the physical vehicle through which the Mind works. The Mind is an energy form that prevades and permeates the physical or chemical or molecular and atomic substances of the brain and body and environment. As we will come to see Mind permeates everything, everywhere simultaneously.

*Definition of MIND.*

"That which is the active force in an animate object; that is the spark, or image of the Maker. Mind is the factor that is in direct opposition of will. Mind being that control of, or being the spark of the Maker, the WILL, the individual when we reach the plane of man. Mind being and is the factor governing the contention, or the interlaying space, if you please, between the physical to the soul, and

the soul to the spirit forces within the individual or animate forces. We have the manifestation of this within the lowest order of animal creation. These are developed as the mind is developed, both by the action of all of the senses of the body, as we have them developed in man. MIND is THAT that reasons the impressions from the senses, as they manifest before the individual.

"THE ACTIVE PRINCIPLE THAT GOVERNS MAN. MIND a factor, as the senses are of the mind, and as the soul and spirit are factors of the entity, one in all, all in one. We are speaking from the normal plane, of course. As the impressions are reached to the storehouse of the body, the mind is that factor, that principle, that portion that either segregates, correlates or divides the impression to the portion needed, to develop the entity or physical force toward the spark or infinite force, giving the life force to the body. The mind may be classified into the two forces - that between the physical and soul, and that between the soul and spirit force. We see the manifestations of this, rather than the object or the mind itself. We find this always manifested through one of the senses, the same as we find the Psychic force a manifestation of the soul and spirit; the MIND a manifestation of the physical.

"With the division of the mind force as given, we see why in the physical plane individuals become misunderstood and misrepresented. They do not reach the same manifestations from other individuals. Hence the expression, "They are all of one mind." "To DO GOOD, they become of one mind, TO DO EVIL they are many." The nearer approach the mind comes to the divide, between the soul and spirit forces, the nearer we become to that infinite force that guides when it is allowed to the individual's actions day by day."

*Definition of "SUB-CONSCIOUS MIND."*

"That lying between the soul and spirit forces within the entity, and is reached more thoroughly when the conscious mind is under subjugation of the soul forces of the individual or physical body. We may see manifestation in those of the so-called spiritual-minded people. The manifestation of the subconscious in their action. That portion of the body, better known as the one that propagates or takes care of the body - physical, mental, moral or what not, when it is not able to take care of itself."

Cayce (3744-1)

**The structure of the physical brain is permeated with MIND which is intimately associated with LIGHT or the LUMINIFEROUS ETHER which is liberated by SOUND of a triple tonal wave form. It is understood**

**the undifferentiated MIND or LIGHT force possesses the same relationship as the G of SILVER, the C of GOLD and the E of PLATINUM.**

The light is important as certain of its vibrations are lethal to bacteria. In years gone by (pre 1930) many variations of Germicidal Tubes or Lamps were developed. These emitted light between 1850 and 2000 A.U. which is in the ozone producing range. Other germicidal lamps emitted light between 2000 and 2800 A.U. which are the high ultraviolet waves near Grenz rays or soft X-rays. These lamps were generally made of quartz and operated cold without heat generation. A number of important uses were found for these ingenious Steri-lights in refrigeration, bakeries, surgery rooms, food processing and preservation and throughout hospitals were harmful bacteria must be controlled<sup>13</sup>. The range of frequencies used to control bacteria is roughly that range referred to Cayce as the etheronic range. In other words, it is in the ultra-violet light range and just a little beyond. Why orthodox medicine promoters stopped using these non-evasive forms of germ control and replaced them with potentially lethal and costly chemical and biological substances has been exposed and discussed at length by other writers.

*"The sympathetic conditions that we call mind are no more immaterial in their character than light or electricity. The substance of the brain is molecular, while the substance of the mind that permeates the brain is interetheric and is the element by which the brain is impregnated, exciting it into action and controlling physical motion. In order to trace the successive triple impulses, taking the introductory one of sympathetic negative outreach, towards the cerebral neutrals, which awaken the latent element to action, we find that mind may be considered a specific order of interatomic motion sympathetically influenced by the celestial flow and that it becomes when thus excited by this medium a part and parcel of the celestial itself.*

*The brain is not a laboratory. It is as static as the head of the positive negative attractor, until influenced by certain orders of vibration, when it reveals the true character of the outreach so induced. The brain is the high resonating receptacle where the sympathetic celestial acts, and where molecular and atomic motion exhibits itself, as according to the intensification brought to bear upon it by the celestial mind flow.*

*The question arises, Why is this condition of the (luminous) ether always under a state of luminosity of an especial order? Its characteristics are such, from its infinite tenuity and the sympathetic activity with which it is impregnated, that it possesses an order of vibratory, oscillatory velocity, which causes it to evolve its own luminosity. This celestial, latent power, that induces luminosity in this medium, is the same that registers in all aggregated forms of matter, visible and invisible. It is held in the corpuscular embrace until liberated by a compound vibratory negative medium.*

*What does this activity represent, by which luminosity is induced in the high etheric realm, if not to indicate that even this order of ether is bounded by a greater region still beyond? The activity of the corpuscles represents its outflow from the luminiferous track towards the molecular centers of neutrality, revealing the connecting link between mind and matter. These conditions of luminosity have no thermal forces associated with them, although, paradoxically, all thermal conditions emanate from that source. The tenuity of this element accounts for it. It is when the streams come in conflict with crude matter that heat is evolved from its latent state and a different order of light from the etheric luminous is originated, the sun being the intermediate transmitter.*

*All planets and systems are sympathetic intermediates, the whole of one system, connected in sympathy for each other, the brain of Deity." (Keely)*

The above quote mentions the brain as an instrument through which the Mind forces act. The 'Mind Forces' are of an especially high vibration frequency and are of the Dominant mode (see box on page 39). In other words, these Mind Forces are a flow on what Keely called interetheric particles just as electricity is held to be a flow of electron particles. According to the chart on page 6 these tiny particles would be something akin to what we call nowadays "quarks".

Gold and silver 'enliven' certain glands which impact upon the acoustically resonant centers within the brain mass - and as Keely implied - the finer and higher luminiferous etheric vibratory flows can then permeate the body in a greater and more harmonious manner. This process is on the order of the releasing of aromatic substances or odors. These aromatic particles are deemed to be in a range of sizes

from the etheric to the interetheric. These would be like our photons and quarks and all other particles of these velocity ranges. Platinum is a catalyst that causes the release or liberation of these particles from the grosser molecules and atoms. This is almost a process of cavitation whereby one phase of a substance is changed into another higher phase of matter. It is not known just how or why platinum can cause an atom, for instance, to release some or all of its composite elementary particles. But that it does is not denied by anyone. Gold and silver tend to strengthen or bring about a resonance within the glandular chemical substances.

## Stoke's Law

In radiation physics (fluorescopy) there is a little known phenomenon called Stokes Law. When a phosphor or other luminescent substance emits light, it gives, in most cases, an emission according to a fundamental law known as Stokes' Law. This law states that the wavelength of the fluorescent (emitted) light is always greater (with less energy) than the wave length of the exciting radiation. It was first observed in 1852 in the memoir "On the Change of Refrangibility of Light" by Sir G. G. Stokes. In terms of energy the relationship states

$$\epsilon_{em} < \epsilon_{ab}$$

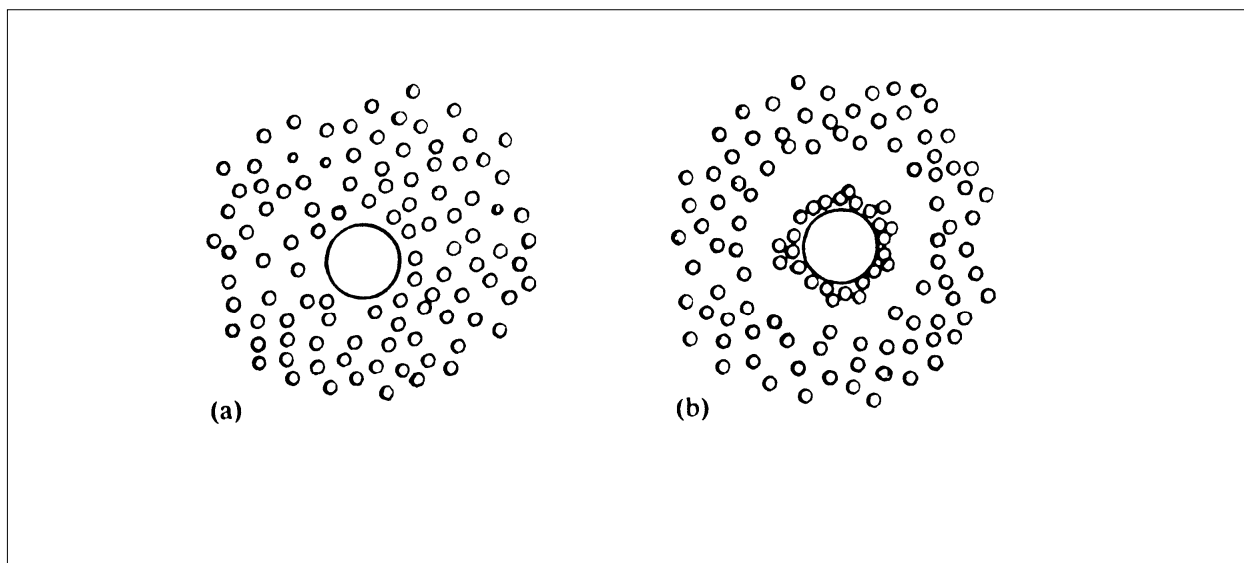
While Stokes' Law holds true for the majority of cases it does not follow in certain instances. In some cases the wave length is the same for both the absorbed and emitted radiation. That is, the efficiency appears to be perfect or unity. This is known as resonance radiation. In the other case Stokes' Law does not hold where energy emitted is greater than the energy absorbed. This is known as Anti-Stokes Emission. In 1935 Prileshajewa showed that there is an energy difference as much as 1.1v between the exciting light and the fluorescence of aniline vapor. This added energy is attributed to additions from the internal energy of the molecule. What are the conditions under which this Anti-Stokes' Emission exists? The answer to this is not known at this time to this author. Although it is a near certainty that it is known elsewhere to others.

*"Silver and Gold, then, as metals for the body, enliven the glands of the system that are lax in their physical functioning, supplying the brain centers even themselves that impulse, that incentive, as to make for proper physical coordination in the body here." (5500)*

These centers in the brain act as acoustic centers to and from which are communicated the vibrations that govern nerve and glandular systems and their forces. Generally speaking, this construction of these systems is not wholeheartedly embraced by the conventional medical establishment. However there are many indications that the "black budgeted" medical or military medical researchers have long known and used this understanding.

*"In the NERVE SYSTEM, and SYSTEMS, here we find the cause or the seat of the trouble. Being of the specific nature, there are the specific reactions UNDER conditions that savor of the physical; yet HINDERED in such a manner as little or no exterior conditions manifest themselves; but we find that in times back, in the presentation, there was a hindrance to the normal manifestation of the presentation, and THAT a pressure produced in the 2nd and 3rd cervical has impinged the center as governed through the sympathetic and the pineal, that - in the distribution of impulse through the sensory system, as related to either sight, sound, speech or odors, will respond in almost the SAME reaction as to impulses through the lyden [Leydig] glands in the base of the brain, so that the impulse received through the medulla oblongata is oftentimes choked, and causes the distortion as to physical and mental reaction - though, taken nominally, there will be the normal response to impulse. This, also, has had much to do with the developments of the body-PHYSICAL as related to sex. This, under the condition, is normal. Under the changes as may be wrought, we find that this - released too suddenly - would be destructive in either of the reactions in the pineal, developing an abnormalcy in the pelvic organs or of floundering, as it were, in the brain's impulse. This, then, as WE find, MAY BE relieved, and near normalcy brought to this body." Cayce (2372-1)*

The connection between the three Noble Metals and the brain which is the transducer for the MIND is becoming plainer and plainer. These Mind vibrations are on a very high level of frequency. The connecting link between the high Mind vibrations and the lower vibrations of the physical body is *sympathetic vibrations* acting through progressive partials and har-



Attraction of human red blood cells (small circles) to a gas (cavitation) bubble (large central circle) in a sound field. (a) Initial random cell distribution before sound is turned on. (b) Distribution of cells after sound has been on for a short time. The cells form a sheath round the bubble and leave a cell-free area concentrate with the bubble. A vibrating structure is thusly attractive. The drawing of a gold particle on page 69 takes on more meaning when considering the particle as a vibrating structure becoming attractive after being modulated by an outside vibrating source. Apparently this attraction process applies to the brain centers and other functional centers within the body. An additional point to notice here is the fluid (concentrate) used in the above experiment becomes cavitation active either from prolonged exposure to ultrasound or by intense energy levels. Cells survive less and less as exposure increases due in part to microstreaming and subsequent cell membrane stretching until it breaks. Also the blood serum (concentrate) may become heated as a result of multiple cavitations. Ultrasonic exposure to human tissue has been shown to be lethal under certain circumstances. Other experiments have shown the formation of highly reactive OH and H radicals even in the presence of natural radical scavengers. **Many scientific reports demonstrate that ultrasound systems driven in continuous modes and at relatively low intensities can initiate potentially hazardous side effects in animals *in vivo* (human beings).**

monics. As one tone sounds above so too does the lower respond. The brain, endocrine system and the rest of the body functions as a whole and this whole (ideally) is in perfect health when all the components are functioning harmoniously. Consequently, a lack of any of the components or an anharmonicity of their association leads to discord, dis-harmony or dis-ease.

*"The principle being that these change the vibratory forces as they add to or take from impulses within the system, from which those of the sensory system, or senses, react in the brain itself, and which takes place much as has been given with gold and silver in their varied conditions as may be applied to the system."* Cayce (1880-16)

The triple composite nature of these three metals combine in just such a harmonious fashion. From this union of coincidental motions and vibratory actions are derived the harmony of

the tonal orchestra of bodily vibrations. Harmony added to harmony equals harmony. The cosmic or universal sea of energy we live in (Moray) is a sympathetically balanced and dynamic ocean of waves of energy. As mentioned earlier any thing or any object emerged in a vibratory media will begin to take on aspects of those vibrations:

*"The normal brain is like a harp of many strings strung to perfect harmony. The transmitting conditions being perfect, are ready, at any impulse, to induce pure sympathetic assimilation. The different strings represent the different ventricles and convolutions. The differentiations of any one from its true setting is fatal, to a certain degree, to the harmony of the whole combination. If the sympathetic condition of any physical organism carries a positive flow of 80 per cent on its whole combination, and a negative one of 20 per cent, it is the medium of perfect assimilation to one of the same ratio, if it is distributed under the same conditions to the mass of the other. If two*



*masses of metal, of any shape whatever, are brought under perfect assimilation, to one another, their union, when brought into contact, will be instant.*

*"If we live in a sympathetic field we become sympathetic, and a tendency from the abnormal to the normal presents itself by an evolution of a purely sympathetic flow towards its attractive centers. It is only under these conditions that differentiation can be broken up, and a pure equation established. The only condition under which equation can never be established is when a differential disaster has taken place, of 66 2/3 against the 100 pure, taking the full volume as one. If this 66 2/3 or even 100 exists in one organ alone, and the surrounding ones are normal, then a condition can be easily brought about to establish the concordant harmony or equation to that organ. It is as rare to find a negative condition of 66 2/3 against the volume of the whole mass, as it is to find a coincident between differentiation; or, more plainly, between two individuals under a state of negative influence. Under this new system, it is as possible to induce negations alike as it is to induce positives alike. Pure sympathetic concordants are as antagonistic to negative discordants as the negative is to the positive; but the vast volume the sympathetic holds over the non-sympathetic, in ethereal space, makes it at once the ruling medium and readjuster of all opposing conditions if properly brought to bear upon them." (Keely)*

These higher frequencies and modes of vibration are of the so-called Divine or Spirit realm and higher and manifest to us as Mind Force or the One Force in its original forms and modes. Do we take Keely's word as Gospel without confirmation from our famous psychic? Not at all:

*"The earth and the universe, as related to man, came into being through the Mind - Mind - of the Maker, and, as such, has its same being much as each atomic force multiplies in itself" Cayce (900-227)*

*"Then MIND, as He, was the WORD - and dwelt among men; and we beheld HIM as the face of the Father." Cayce (1567-2)*

*"For, of the dust of the earth was the body-physical created. But the WORD, the MIND, is the controlling factor of its shape, its activity, from the source, the spiritual entity." Cayce (263-13)*

And yet again continuing with this dissertation on the MIND we come to what is really im-

portant - The Law of One. We spoke earlier of the radial forces activating simultaneously with the absorptive forces. This out/in motion is the Law of One and may be seen and understood in the following Cayce quote:

*"Because our mind, the Son, is within us."*

*"Then with that consciousness of His awareness, we may know even as He has given, "Ye abide in me, as I in the Father - I will come and abide with thee."*

*"In that consciousness, then, the purposes for which each soul enters materiality are that it may become aware of its relationships to the Creative Forces or God; by the material manifestation of the things thought, said, DONE, in relation to its fellow man!" Cayce (1567-2)*

Presented were the vibrations, the laws governing same, some factors of gold, silver and platinum and the MIND and LIGHT and relations between them all. These seemingly unrelated things were shown to be all sympathetically connected through their common denominator - vibration.

## Attitude is Everything

As is being shown the Mind is the ultimate healer. This being the case it is also being seen that attitude is everything. Attitude may be viewed as the direction given the Mind forces of the individual. Directing the will into either positive or negative intents will bring about those centers of sympathetic vibrations to which all other forces will resonate. It is the Will or the volitional thought that initiates the release of energies from within the body. The qualities of harmony evident within the glands and emotions of the body are the players in the orchestra each person learns through life's experiences to conduct. The noble metals can help bring about fortitude, stability and consciousness within these active parts. From that point on it is a conscious and volitional decision of the individual that guides the tunes to be played and experienced. The conditions or qualities of these initial thoughts are all important:

*"The speculations of the physicists of the present age (1892), in regard to latent energy, would neutralize the sympathetic conditions that are associated with the governing force of*

*the cerebral over the physical organism. The evolution of a thought, the infinite exciter, arouses the latent energy of the physical organism to do its work, - differential orders of brain- force acting against each other under dual conditions. If there were no latent energy to arouse, sympathetically, there would be no action evolved on the physical mass, nor on any other, as all force is mind force. All evolutions of latent power, in its varied multiplicity of action, induced by its proper exciters, prove the connective link as between the celestial and the terrestrial, the finite and the infinite." (Keely)*

The initial or introductory impulse that begins the sounding of subsequent vibrations is in actuality setting the tone for the future activities. This is not unlike the striking of a drum once to sound a tone or the sounding of a single musical instrument in an orchestra to which all the others bring themselves into harmony. This is the bugler's call to order or the church chime calling to meeting of those of like mind joining together for common purposes. The quality or tone or purpose behind this introductory tone is that which engenders the motions with its characteristics and calls them again forth into and from future or begotten resultant tones.

*(Q) How often and how much longer should Radio-Active Appliance be used?*

*(A) If it is NOT to the advantage of the body in that it gives an opportunity for the use of its spiritual balance, leave it off! For it can be made very detrimental!*

*But if it is used at the period for the body to meditate and pray, thus making a better coordination between all of its mental and spiritual and physical forces, the longer it is used the better! not at one period, of course, but continuously over a long period, for the whole of the mental and spiritual and physical reactions.*

*This is beneficial to ANYONE, PROPERLY used! It is harmful, improperly used.*

*You can't use the Radio-Active Appliance and be a good "cusser" or "swearer," - neither can you use it and be a good hater. For it will work as a boomerang to the whole of the nervous system if used in conjunction with such an attitude.*

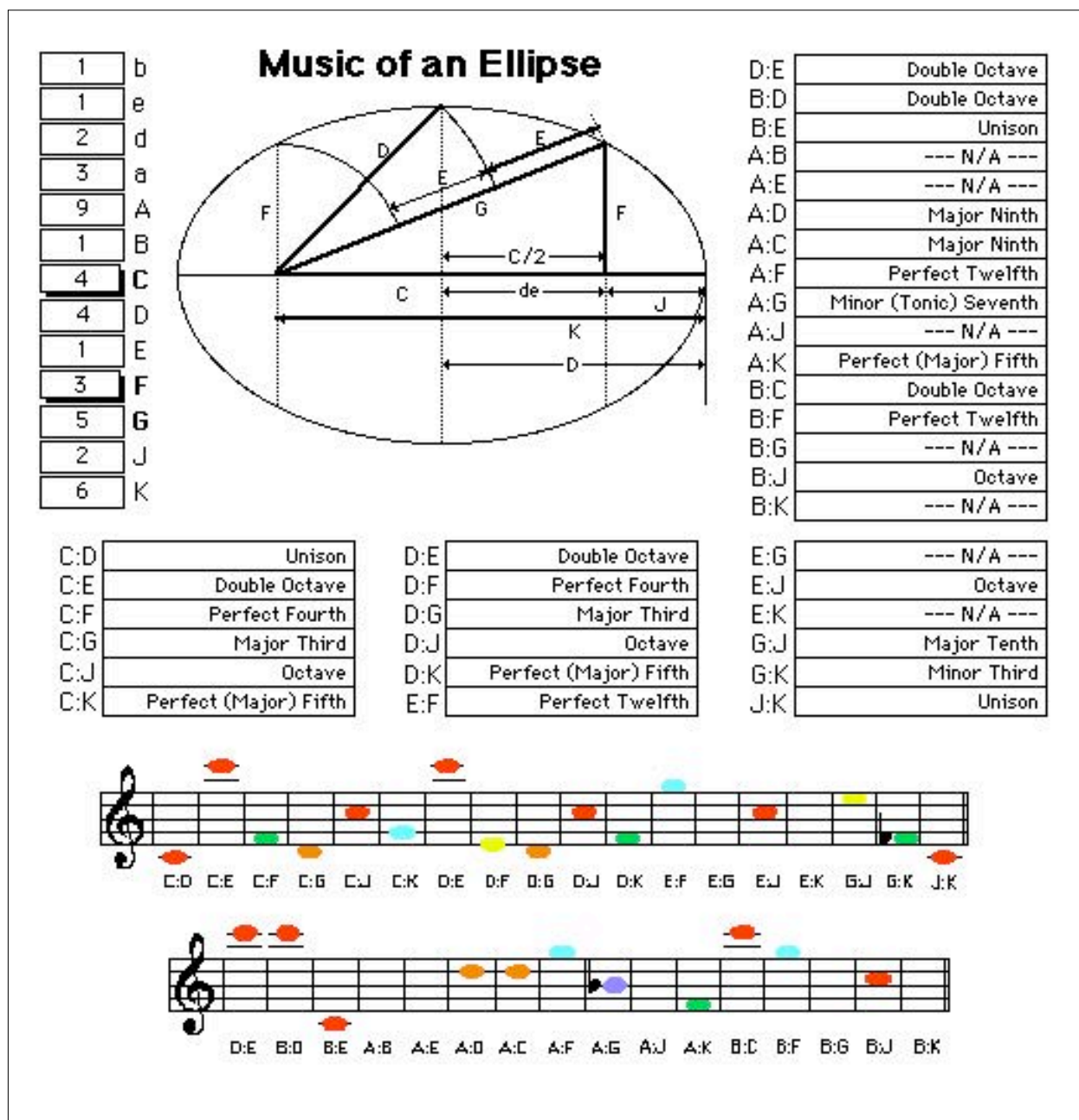
*It is the coordinating effect of the balancing powers in the nervous system, as related to the mental and physical and spiritual bodies, that*

*becomes active with the use of such an Appliance. Cayce (1844-2)*

Coming back to our original subject of colloids it is being shown what these colloids are, how they function, how the brain and body functions and how they all relate or "do their thing". The three metals of gold, silver and platinum are seen to be important additions and elements of the human body aiding in its proper functioning. - But how can these be applied to or placed in the body in an appropriate fashion?

*"First, the surroundings should be such as are PLEASANT to the development of this body. Not all the time HUMORED, as would be termed in that direction - for the combativeness of a nature is necessary for the reactions to take place, and the release of the flow of impulse TO the brain must be made in that manner in which it will NOT be released at once, but of a gradual growth. This may be accomplished by the gradual placement of the impingement, and by awakening in the nerve itself that of the stability as is NECESSARY for the stabilizing of nerve impulse - which may be had through the application of the Radio-Active Appliance carrying both Gold and Silver. To be sure, these are NOT to be applied at the same time, but one would be applied - the Gold first, we would say - on Tuesday. Then the application of the Silver (nitrate) on Thursday. Then the Gold again on Tuesday, and the Silver again on Thursday - and not for a LONGER duration than thirty minutes each period." Cayce (2372-1)*

There are but few known ways of feeding the body its required material substances: 1) through diet (but our foods and food producing lands have been scavenged or stripped of nearly all the elements including our three); 2) through the Cayce Wet-Cell device; 3) colloids and 4) artificial or natural supplements. We have access to and information on how to use and benefit by colloids. They are simple and cheap and readily available. The Wet-Cell is not widely available<sup>14</sup> and as yet problematic for general use. So that leaves us with colloids.



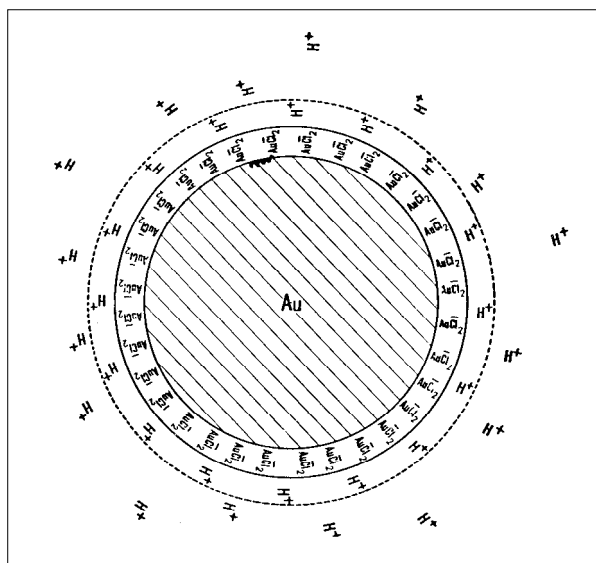
**Music of an Ellipse.** Quantizing to One and using musical intervals as relative proportions results in a natural development of geometry using arithmetic. This would be a scientific basis of sacred geometry and sacred science. Vibration signature patterns, as does all life, make use of the Fibonacci Series and ellipses as a foundation form. In the above figure the various dimensions of an ellipse are related one to another to determine their relative value. These ratios are presented as music intervals and show there is little chaos in the universe as all natural phenomena manifest via vibratory actions. These vibratory actions are resultants of vortexian or curvilinear or circular motions. Dimensioning and numbering developed using Quantum Arithmetic.

**Ellipse set to Music.** The lower staves, show the above music intervals “set to music” on the appropriate note notation position. This is beginning to resemble portions of Keely’s fabulous charts which can be found in *Universal Laws Never Before Revealed: Keely’s Secrets*.

## Colloids

A colloid is a condition of extreme subdivision of a metal, in which the metal particles remain suspended or dissolved in water. Or, broadly speaking, colloids are a stable mixture of one phase (a solid) in another (a liquid). The term colloidal (derived from the Greek word for glue) was coined in 1861 by the chemist Thomas Graham (1805-1869?). During this time, Enrico Selmi precisely described colloids and developed a theory of charge interaction of which several aspects are still valid today. One of the first scientific studies of the preparation and properties of colloidal gold was done by Faraday (1857). He discovered the sensitivity of colloidal gold to electrolytes and demonstrated the protective effect of gelatin and other macromolecules.<sup>2</sup>

Around the turn of the century colloids were popular and extensively employed by pharmacies everywhere.<sup>23</sup> Colloid mills were used to grind materials as fine as  $1/2000$  of an inch in size. Now we know that this size is barely adequate to form true colloids. Notwithstanding this was considered appropriate for the medicinal usages of that era. A colloid can be visualized by the following example. When a small amount of common salt is shaken up with water the salt quickly disappears and a perfectly homogeneous liquid is obtained, which has a salty taste, but in which no particles of salt can be detected, even under the highest power microscope. Even on long standing the salt does not settle out of the water, nor can the salt be removed by filtration of the solution. However, on evaporating off the water, the salt is left behind in its original form. If, on the other hand, a little chalk is shaken up with water, a milky mixture is obtained in which the particles can be readily seen and can be separated from the water by settling or by filtration. In the first case, the salt is taken up or dissolved by the water forming a true solution; in the latter case, the chalk is merely suspended in the water. Between the limits of *true solution* and *suspension* lies the region of *colloid solution*. A solution may be defined as a homogeneous mixture of two or more substances, which (mixture) can vary in composition continuously within certain limits. The latter part of the definition serves to distinguish solutions from



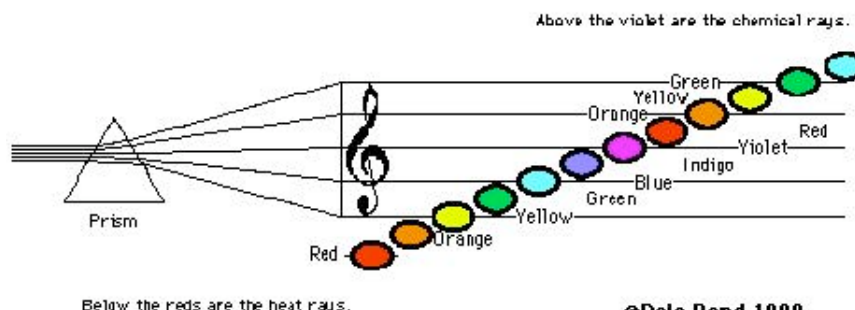
A representation of the composition of colloidal gold (Wieser, 1933). The colloidal particle consists of an essentially crystalline gold core (Au), on the surface of which are absorbed ( $\text{AuCl}_2$ ) ions, which constitute the inner layer of the ionic double layer. The  $\text{H}^+$  ions are in the intercellular solution.<sup>28</sup>

chemical compounds. The latter are by definite and invariable composition, whereas the composition of a solution of salt in water may vary within wide limits.

Physical chemists now divide solutions into three classes: (a) *molecular*, such as dissolving sugar in water; (b) *ionic*, such as dissolving sodium chloride (salt) in water; and (c) *colloidal*, such as dissolving gelatin in water. Again, there are several classes of solutions, arranged according to the physical states of their components. We may have a gas dissolved in a gas, in a liquid or in a solid. We may have a liquid dissolved in a liquid, in a gas or in a solid. We may have a solid dissolved in a solid, in a gas or in a liquid. That part of a solution which is present in largest proportion is usually called *solvent*, and the substance taken up by the solvent is termed the *dissolved substance* or *solute*. When some substances, principally acids (gold), bases and salts (silver), are dissolved in water, their molecules undergo subdivision into tiny "charged" particles called "ions". All substances do not ionize and all liquids are not as good ionizing agents as is water.

Some writers prefer calling a colloidal solution a *dispersoid* and the dissolving of colloids *peptization*. This is accomplished by convert-

## Undifferentiated Light Refracts into Multitude of Component Parts



ing substances in the colloidal state, through reduction of the size of their particles. In colloidal solutions, the individual particles are larger than molecules and smaller than 0.0001 mm. in diameter. These particles usually bear electric charges which are usually negative.<sup>28</sup> By reducing solids down to extremely minute conditions of subdivision colloidal solutions of normally insoluble matter may be obtained; thus dialyzed iron is a colloidal solution of ferric hydroxide; while colloidal solutions of silver, of gold, of selenium, of sulfur, of tin and other metals are known. The two official colloidal silver preparations, *argentum protei- nicum forte* and *argentum protei- nicum mite* are considered as dispersoids of silver oxide rather than of elemental silver. Such colloidal metallic solutions are apt to precipitate upon standing unless substances like gelatin, pro- teids or gums are present. Such substances so used are called protective colloids.<sup>23</sup>

Colloidalized elements are different than those found in rocks and minerals. These *in situ* elements are generally electrically positively charged. They are large comparatively speaking and can usually be seen with a 200 power microscope and are generally considered as toxic if ingested. On the other hand, properly colloidalized minerals are electrically negatively charged and not toxic. A colloidal particle is so small that many times it cannot be detected with a 1000 power microscope. In Dr. Patrick Flanagan's book, *Elixir of the Ages*, he says "Colloidal chemistry was evolved in

modern times by David Graham, a British chemist, 50 years ago, but only recently has it been realized even by scientists what an enormous influence it is destined to have in medicine, agriculture and industry." He continues, "Colloids are known as the twilight zone of matter. These minerals are the smallest particles that matter can be divided while still maintaining its individual characteristics. Colloids range in size from 0.1 millionth's of an inch to 10 millionth's of an inch (.01 microns to 10 microns). The smaller colloids cannot be seen with the most powerful microscopes. Because of their small size, they have an enormous surface area which gives them special properties. One teaspoon of colloids can have a total surface area of over 127 acres, and is composed of billions of tiny electrically charged minerals." There are appearing on the market today new food products based on these concepts. One of these is called *Mineral Toddy* composed of minerals from vegetable sources which they call the "Full Spectrum Organic Bio-electrical Elements". More information can be obtained by writing to the manufacturer Soaring Eagle Ventures, Inc., P. O. Box 261280 San Diego, California 92196. The company bills their Mineral Toddy as a "plant derived colloidal nutritional supplement produced under Consent Decree by the U.S. Department of Health and Human Services, and is 100% guaranteed."

## Microclusters

The leading-bleeding-cutting edge of modern physics is finding that most of what we were taught just a few years ago needs revision. The physicists have discovered a new state of matter called microclusters.<sup>20</sup> This new state is neither solid nor liquid but something in between. Microclusters consist of tiny aggregates comprising from two to several hundred atoms of a given metal. *What we generally consider as properties of these metals on the macroscopic scale are not always the same in this microscopic scale.* Basic properties such as melting point, valence, etc. change as the small numbers of aggregated atoms gain or lose a few more atoms to the cluster. A thought occurs that if these metals do not possess characteristics normal to themselves while in a microcluster state then what are they when in this state? *If not a metal then what?*

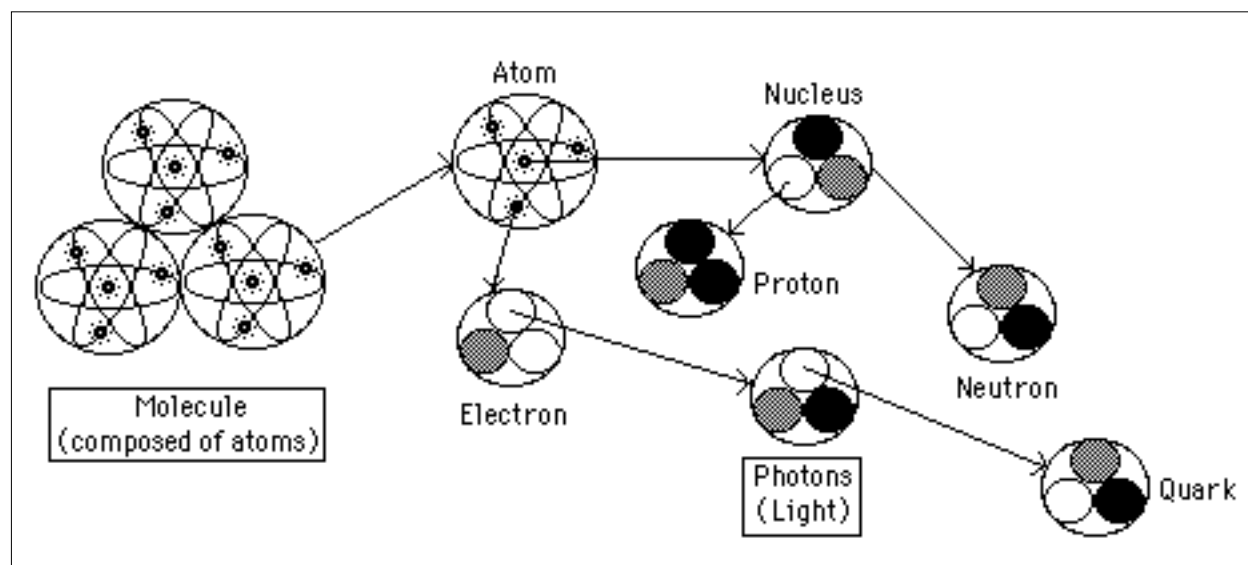
The clusters are unique in that some of their properties are determined from the fact that they are mostly surface as opposed to volume. More importantly it has been observed that because they possess an unfilled electronic bonding capability, they are partially “naked” (lacking some electrons) and hence extremely

reactive in the presence of other “electron rich” substances.

When electrons are shared by the whole cluster in a delocalized pattern, so that the negative charge is no greater at any one point, the cluster may take on certain aspects of a solid metal such as conductivity.

Conversely when the clusters are smaller electrical conductivity (and other metal-like qualities) are not as evident. It is further summarized by Hudson<sup>27</sup> and others that mono-atomic or single atoms of these and other metals are not detectable by standard spectroscopic instruments. This stands to reason because if it takes 19 or greater numbers of aggregated atoms of a metal before the metal begins looking like a metal then when one looks for a metal with lesser number of atoms it cannot be recognized as such! Further logic tells us that if it doesn't look like a metal in this state then it must be as a *white powder* not necessarily a solid but nearly as a liquid.

Also as these clusters form from small numbers of atoms they establish themselves in beautiful geometric patterns as these form into isomer molecules. These isomers may take on different geometries depending on their energy states and are called *fluxional clusters*.



All molecules are composed of atoms which are in turn composed of even smaller and more energetic "particles": Electrons, Protons, Neutrons, etc., and a Nucleus. These smaller particles are composed of yet even smaller particles: Photons, Quarks, Charm, Down, Up, Strange, Top, Bottom, etc. Yet none of the particles making up a molecule or atom are really hard, solid particles, they are instead "vibrating bundles of focalized energy".

Fluxional clusters vary their shapes even at extremely low temperatures and perhaps should be regarded more as liquid droplets than as hard crystals or solid particles.

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." (Keely, pre 1894)

These two laws reflect what we are now discovering about the existence and behavior of microclusters. Coherent atoms or atoms that are similar and combine *as atoms* oscillate to known parameters and the effects of these oscillations can be predicted. Likewise just as *fluxional clusters* are distorted with the addition or subtraction of heat vibrations so too do their rates of oscillation and amplitudes of motion.

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.

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, pre1894)

Microclusters have another interesting property of combining in numbers of atoms appearing in a harmonic manner. These counts of atoms in clusters is called *abundance peaks* and appear in discrete counts such as are found in sodium clusters of 8, 20, 40, 58 and 92. Lead

has distinct abundance peaks of 7 and 10. This periodicity of cluster abundance numbers goes a long ways in allowing us an insight into how and why certain atomic substances are chemically active while others are not. Looking at this issue from a vibration standpoint it is much clearer as detailed by Keely's law given below.

Law of Chemical Affinity - "Atoms whose atomic pitches are in either unison, harmonic or concordant ratios, unite to form molecules.

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 concords, and harmonics founded upon a normal harmonic scale, are equally essential.

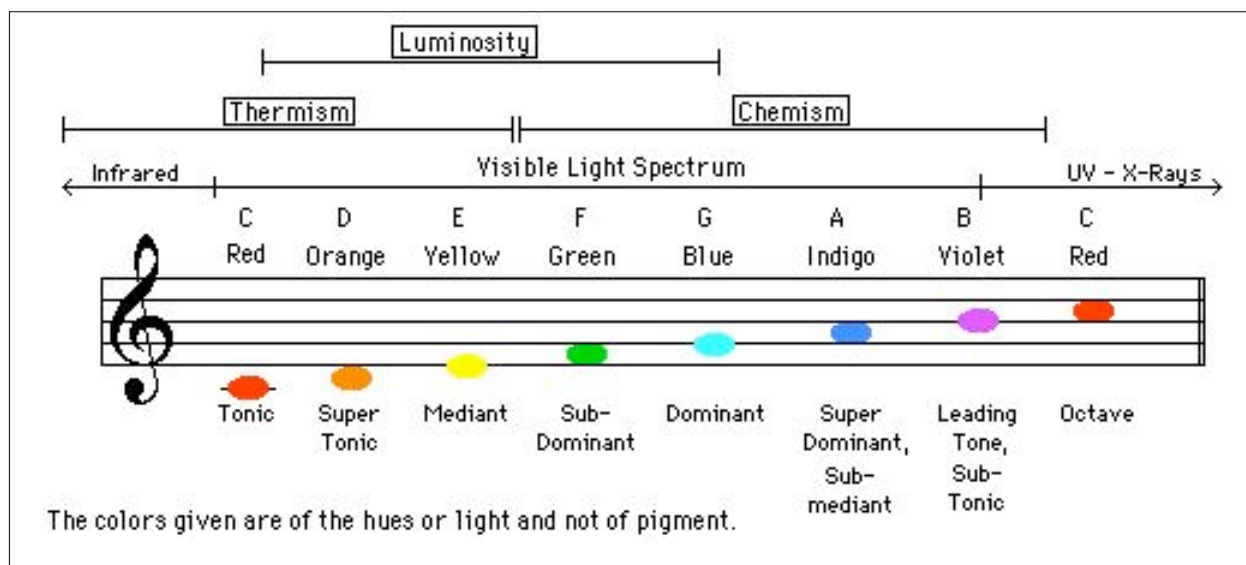
Scholium: Optical instruments may be made to measure pitches of energy." (Keely, pre 1894)

In the early nineteenth century colloidal gold reemerged within the field of particle science as an investigational solution used to examine aspects of colloidal charge repulsion, nucleation, and condensation. The composition of colloidal gold particles was determined to consist of an elemental gold core surrounded by a negative ionic double layer of charges (see chart page 53).<sup>2</sup> It was also found that colloidal gold was rendered unstable in the presence of electrolytes (chloride > bromide > iodide).

*"The term colloid (kol' oid) refers to a substance that consists of ultra-fine particles that don't dissolve, but remain suspended in a medium of different matter. These ultra-fine particles are larger than most molecules, but so small they cannot be seen by the naked eye. Not all brands which claim to be colloidal silver are, in fact, "true" colloids of silver. In fact, I suggest that most ARE NOT!*

*In a true colloid of silver the ideal size of the silver particles falls within the range of 0.005-0.015 microns [a unit of length equal to one-ten-thousandth of a centimeter; and a centimeter is about as long as half an inch] in diameter and most instruments cannot*





measure the particles, but they can only be read on a spectrometer which measures COLOR frequencies. These tiny particles are electrically charged to activate the germicidal quality of the silver and allow the silver particles to remain suspended in the solution of deionized water.

There are two principle ways of producing metallic colloids: chemical and physical (electrical). The two methods of production yield widely different results (e.g., OxySol and GaiaCol). Both serve their own individual PURPOSE, but let us consider the electrical colloid method here, since this presents the necessary homogeneity, minuteness of granules, purity, and stability, so far sought in the community of health watchers. It is NOT enough that they don't seem to think far enough to encompass the full needs. You do have to get suspension in solution by the tiny charge placed on the particles — but you also need something to continue to allow upgrading of charge and this is mostly overlooked. Silver has always fit the needs of the day — up to now. So, why look further into the unknown when the other organisms which would come were not available for the testing? This is WHY, millions die with each NEW plague — the lack of foresight and anticipation of need.

A "true" colloid that is properly prepared does not require an artificial stabilizer or additive of any kind. Typically, the "stabilizer" used in products which claim to be genuine colloids, but are not, is a protein, often listed on the label as a "natural excipient" (or is not listed at all). The problem with the use of stabilizers is that they tend to disturb the charge which, in turn, renders the solution relatively useless by blocking the action and reducing the overall effectiveness of the colloid — by simply

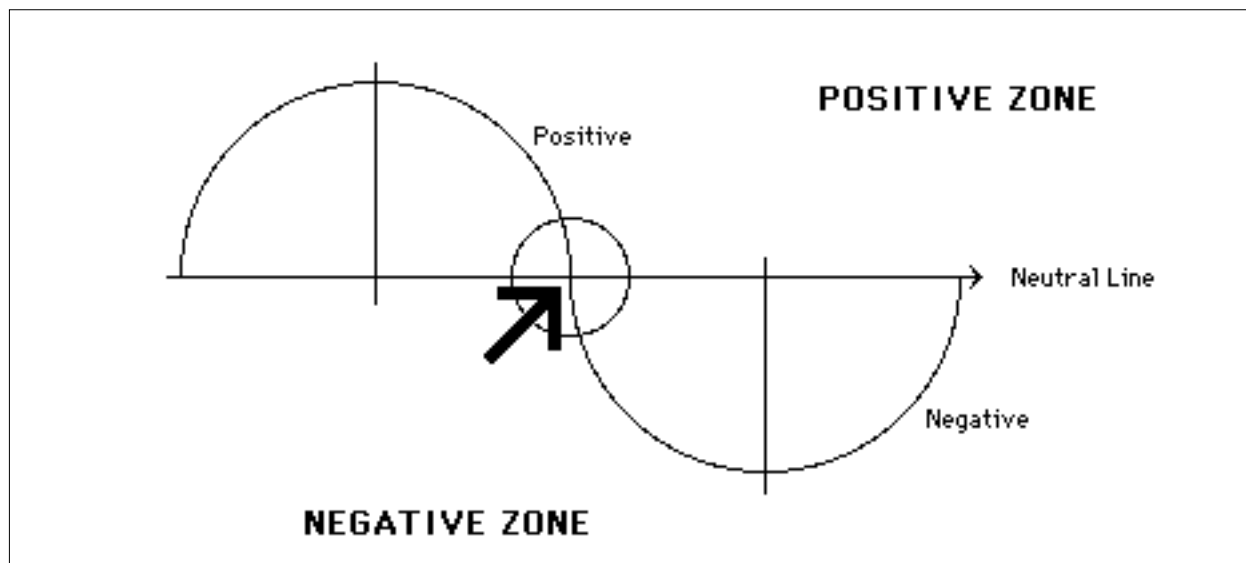
releasing the "charge" instead of holding and enhancing it.

The desirable particulate size of anything in colloidal solution is extremely minute because it must enter into and be held in suspension within molecules of the starting liquid. Too large particulate can lodge in intestinal linings and damage the surface lining. However, I am not impressed with that, for the body HAS TO HAVE THESE MINERALS FOR HEALTHY MAINTENANCE.

No, I do not suggest you eat coins — that plugs up the system quite effectively sometimes. By the introduction of gold electrodes, the frequency of the silver is raised to that of more than the sum of the two frequencies combined, and the particulate will become more refined while the overabundance will settle out. The addition of Drias will pull the combined frequency on up higher, but will cloud the solution as it converts the very substance into a new element form which will then take the cosmic energy charge and hold it.

This brings us to the COLOR ISSUE: The critical indicator of the quality of colloidal silver is color. As the size of each silver particle gets larger, the color of the solution ranges from yellow to brown to red to gray to black. This is not good transformation if dealing ONLY with silver. In terms of quality IN A SILVER-ONLY COLLOID SOLUTION, this range of color can be interpreted as "best to fair to mediocre to inferior". Colloids of silver that are produced using the proper electrocolloidal method are a different color than the "grind" or chemically produced colloids, except in the case of some products that contain artificial food coloring to achieve





the right color to fool you. The ideal form of Colloidal Silver is a golden yellow color, which is the FREQUENCY tone of silver.

Gold will give off a purple color tone. In the presence of gold electrodes (which introduce gold into the silver solution), the entire solution will be brought into the frequency of the purple color range. So if you have colloidal silver, which is golden yellow, you will have a conversion of color (in the presence of gold electrodes) and gold particulate, to purple or shades thereof.

When you add Drias to that solution and put in presence of intense light (such as the direct Sun), the immediate reaction starts to happen — moving from cloudy to aqua-colored translucent solution to, finally, clarification and ultimately back to pure transparent liquid. You don't need all that transmutation, as the violet solution is superb for what is put upon you NOW. Mostly the golden colloid of silver will confront anything you have present right now — but you will need to upgrade as we can upgrade. And you will note that GaiaCol<sup>®</sup> is violet in hue.”<sup>9</sup>

In the above we can see tie-ins between the metals and their colors (which is LIGHT). Light (active or reactive photons) is important! Modern and accepted quantum physics holds that *electrons are composed of three photons*. This means that activities of electrons has little effect upon a photon but the activities of photons has great effect upon electrons. It also means that all seemingly hard material substances are really bundles of light as all substances are made of electrons supposedly spinning around a nucleus and these electrons are composed of light!

## Enzymes

A lot is being said about enzymes these days and rightly deserved. This class of chemical substances is extraordinary and extraordinarily important to the human body. This is not a book on enzymes which are covered much better in other works and these should be consulted. However there are aspects about enzymes not necessarily covered elsewhere. And this has to do with their characteristic *colloidal natures*. In the early part of this century these substances were well nigh impossible to separate due to the highly dissolved state of colloids which these are. Czapek says “we know enzymes only by their actions” because he was not able to separate them apart. Enzymes were regarded as insoluble colloids which are energetically absorbed by such agents as infusorial earth, kaolin or even filter paper. That enzyme action does not proceed along the routine lines of molecular proportions seems shown by their extreme activity. Thus, 1 part of the invertase enzyme hydrolyzes 200,000 parts of sugar, while 1 part of the enzyme rennin is capable of coagulating 800,000 times its own weight of casein in a sample of milk. Enzymes are therefore to be regraded as “the catalytic agents of the living cells” and are found both in animal and in vegetable tissues.<sup>23</sup> It would appear that enzyme colloids possess active properties or have forces in action not unlike the colloids of metals. These functions sound a lot like the

actions attributed to platinum when used as a catalytic agent. Could David Hudson be on to something when he says there are tremendous levels of platinum metals in all vegetable matter? And that these elements in a microcluster or colloidal state are responsible for the healthy states of the human body and mind? Or could the real answer be something even more ignored or missing? How about the Grand Transmuter of all time - the Mind? Would it be too far fetched to assume or attribute these qualities of transformation to the most basic of properties possessed by the Mind? That property being its unlimited ability to manipulate, change and create that which it Wills? Is there a Mind Force?

Somewhere in this complex maze of forms and effects there lies occulted hidden causes of Life and the immune system. The human immune system seems to be 'sparked' or energy-fed by these forms of light (vibration) as are found in gold and silver. A further substantiation of the antibiotic effects of the silver and gold when applied to the body can be found in this quote from Cayce:

"Not only does the activity of the Gold (Chloride) then, make for this vibration in the body but it produces in the Endocrinals - through its associations of the metallic forces (electrical flow) from copper to nickel, through the electric charges, the low form passing through the system - the stamina, as it were, to the plasm of the nerve forces themselves. It also stimulates an increase in the numbers of the leucocyte that are the

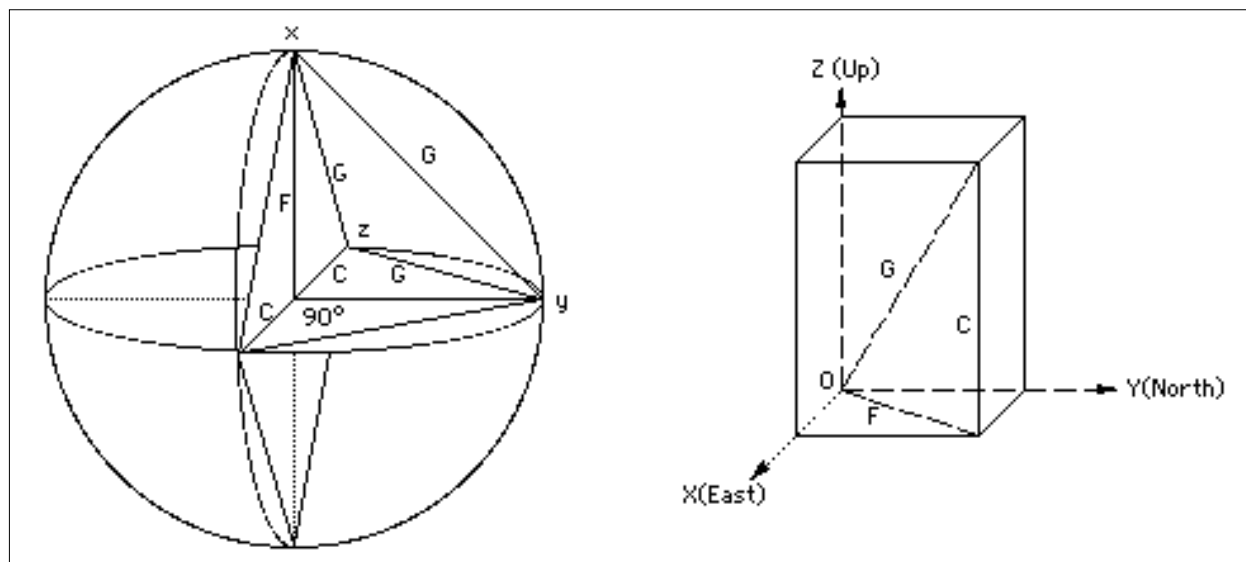
warriors in the blood." Cayce (988-7)

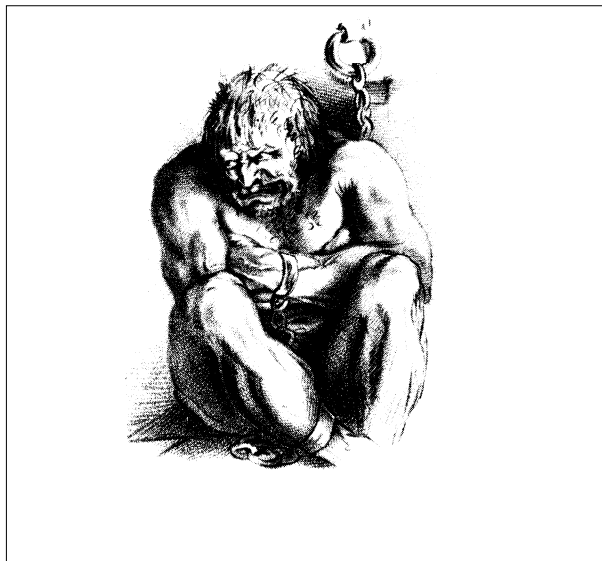
The above quote is extraordinary in that it refers to the basic ionic state (polarization) of electrical forces which are fundamentally the same as those of the *metallic forces* but also ties these directly to the leukocytes which are essentially part of the immune system.

Not only the gold and silver have proven beneficial but French clinicians report (circa 1939) that various tin compounds and especially *colloidal tin* are of value in the treatment of staphylococic infections, such as boils. Some proprietary preparations containing tin salts have been offered for that purpose.<sup>23</sup> Another interesting colloidal is that of bismuth. It was prepared in a number of ways and was employed in the treatment of syphilis.<sup>23</sup>

So the colloids of these metals are vitally important to the immune system of the body. It is the *conditioned vibrations* of the elements in the colloid that make the colloid valuable. The desirable element of these colloids is their negative surface charge coupled with the specific vibrations of the metals themselves.

"We would use, then, for at least two periods, the low form of electro-vibrations in the Wet Cell Appliance that would carry Chloride of Gold for a week and then Nitrate of Silver for a week; the VIBRATIONS of these solutions carried to the body, not the elements taken internally. Through these charges, as we find, there would be created that environ in the mental and physical forces that may make for





Without the gold vibrations coordinating the various nervous systems to the Mind and Body it is quite probable we would all be brain-dead, mad or both.

*the abilities within the body to create, to bring about, to make the desires within self sufficient to become the more helpful." Cayce (1191-001)*

This is not unlike the negative<sup>28</sup> ion dispersing machines readily available on the market. This re-ionizing or repolarizing of charge is all important. If a force is to exist it must be polarized or biased in order for there to be a differential and a flow or current or stream of its energized particles. An example of this polarization is the difference between magnetism as seen in a permanent magnet and electricity in a circuit. These two are regarded as the being the same but there is a difference in that while the two possess two poles each similarly these poles are balanced in the magnetic stream and unbalanced in the electrical current. Hence there is a flow from one pole to the other in electrical currents but no movements apparent in the magnet.

## **How charge works**

Why is this negative charge so beneficial? Because there is maintained a *dynamic bias* or *interactive polarization*. This insight can best be explained thusly: When any kind of energy is found to be in balanced state or in a state of equilibrium there is nothing out of balance. A

balanced state implies one where action does not take place because all the forces are counterbalancing each other. This is like a see-saw that is perfectly balanced on both ends. It does not move or see-saw back and forth because each side counterbalances the other. If on the other hand a small or great weight was placed on one side or the other of this see-saw there would then be movement brought into being. When the forces are equated or brought into a state of balance there can be no motion or manifested energy. Just so in the Full Harmonic Chord mentioned earlier. As long as all the forces being considered as balanced there can be no manifestation of any of them. When the condition of balance is established this is referred to as the Neutral as in the neutral pole where a positive and negative pole meet in the middle. Interestingly this neutral point is not without charge or polarization. In fact it is where both these poles meet and therefore is inherently both positive and negative but the two are in a state of perfect balance and neither out-weighs or out-balances the other. If one likened this to the fulcrum point of the see-saw it would be easier to visualize.

## **Infinitely High Divine**

Visualizing the fulcrum point as a fine knife edge upon which the see-saw is balanced immediately brings up the question: "How fine is this neutral point of balance?" It is infinitely fine. In fact the point cannot be properly defined because it is infinitely subdividable - it is a infinitely fine line that has no dimension. Taking a standard sine wave configuration where a line is drawn to show the positive phase above the neutral line and the negative below it is a little easier to visualize this infinitely fine point. (Which in reality it cannot be visualized!) On page 56 is a graphic showing just this situation. At what infinitely fine point does the positive line meet the negative line? A circle is drawn to show where they meet macroscopically. The circle serves another purpose and that is to show that no *matter how small this circle is drawn the positive, negative and neutral lines would all look exactly as they are shown here. The only thing that changes is scale. The relationships do not change.*

These vibrations and their polarities are intimately associated relatively whether in the sound range, light range or high-atomic vibratory ranges. They are all the same in essence. What changes from the lower to higher ranges are the *modes* of motion. According to modern vibration physics the mode of motion would be changing with each of the 21 octaves of frequencies. The changes would within and about the longitudinal, transverse and Raleigh modes. Keely indicated the mode changes would be within the propulsive, attractive and Dominant modes as well as the modern recognized ones.

Magnetism acts on this high-atomic vibratory range. As its particles resonate so too do any neighboring ones. Thus we can see an effect of the magnet which may answer in part why it has therapeutic properties. See Appendix II for greater detail on electromagnetic forces are discovered and expounded by Mr. Keely. Appendix III contains a number of quotes on the nature and actions of magnetism.

*"According to Keely's theories it is that form of energy known as magnetism - not electricity - which is to be the curative agent of the future, thus reviving a mode of treatment handed down from the time of the earliest records, and made known to the Royal Society of London more than fifty years since by Professor Kiel, of Jena, who demonstrated the susceptibility of the nervous system to the influence of the natural magnet, and its efficacy in the cure of certain infirmities." Bloomfield-Moore, 1893*

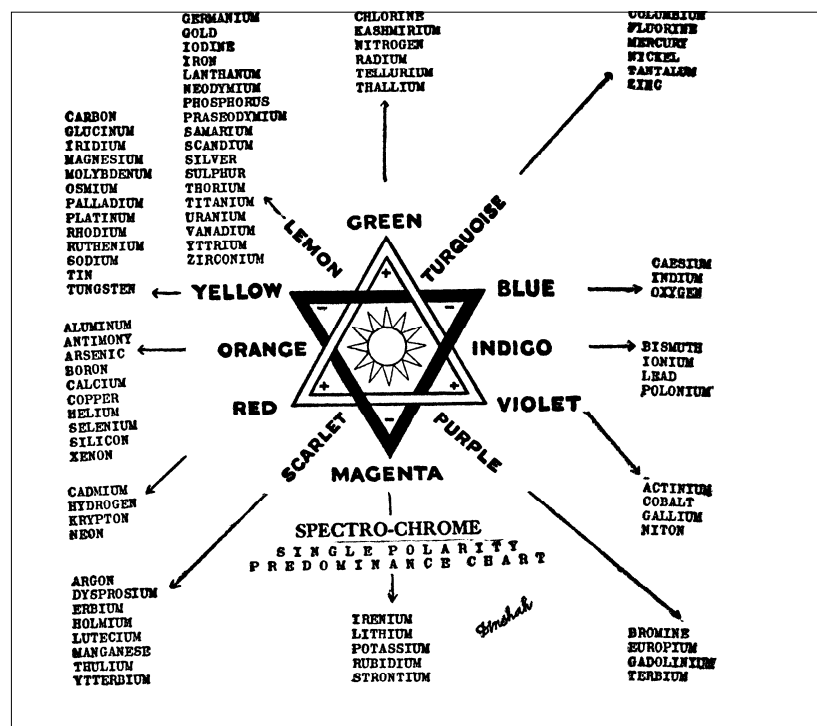


Chart from Dinshah's *Spectro-Chrome Metry Encyclopedia* showing his marvelous work in associating colors (vibration frequencies) to chemical elements.

Measuring color (light wave-lengths) to determine elementary particle material or physical conditions? Sure, it is a well known technique (spectroscopy), one that was well recognized by science and used by Mr. Keely over 100 years ago and detailed in his law which also reveals (in part) how molecules (and atoms) are attracted and bound together. The science of spectroscopy is well developed now and is quite useful in chemical analysis. Here again we can see that physical substances such as gold, silver and platinum are recognized with and by their specific tones or shades of LIGHT. Which, as we have just explored, are directly related to SOUND vibrations and are themselves but vibrations

Law of Chemical Affinity - "Atoms whose atomic pitches are in either unison, harmonic or concordant ratios, unite to form molecules.

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 concords, and harmonics founded upon a normal harmonic scale, are equally essential.

Scholium: Optical instruments may be made to measure pitches in energy." (Keely, pre1894)

Once these elements have be-

come dissolved in the water to form a colloidal solution the fundamental mode of their existence changes. This is a subtle change not necessarily of the metals themselves but the manner in which they “exist”. This change is not unlike the experience of a person being within a huge crowd of busy and noisy people. This person’s individuality is stifled a bit and he begins to experience the sensation of “being one of the herd”. However take this very same person away from all this noisy cacophony where he is allowed free personal expression and he then really “begins to shine” or express himself uninfluenced by the crush of others’ opinions, vibrations and disturbances. Also the individual becomes identifiable and his expressions become clear with a higher quality of ‘tone’. This is clearly shown in the following law.

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." (Keely, pre1894)

The gold, silver and platinum atoms, being “individualized” as almost ‘mono-atomic’ particles within the colloid begin to emit a clearer and distinct tone of vibration. This is much like a soloist singing alone as opposed to say the third chair violinist in an orchestra. Yet, still, the pure tone is one of immense complexity and integrity. The specific pitches and tones of gold, silver and platinum can be seen on the chart found on page 9. This complex action and vibratory realm is dependent and coordinate on, in, through and around all else that is involved in this interchange of dynamism. Opposed to the previous law wherein an object is individualized and expresses itself, as itself, the following law describes how an individualized object takes on “coloring” or influences from its surroundings. (A synonym for sympathy is *being as one* or LOVE.)

Law of Sympathetic Oscillation - "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." (Keely, pre1894)

The human organism finding itself immersed in the universal Dirac (meson/atomolitic) Sea of energy is a dynamic whole possessing individuality, self expression and a progression of its vibratory nature uniquely its own. The ‘outside’ forces of nature are really acting and developing this organism from within not from the outside as it appears. This latter can be shown to exist and is dynamic and influential through the laws of Harmonic Pitch and Harmonic Vibrations. These two powerful laws show how a simple vibration of a lower tone can and does create higher and higher vibrations reaching into and through the highest known levels of frequency. These would be the Spirit and Mind forces. It is through the attainment of these Higher Realms of vibration and energy that all else is created and proceeds.

These forces are vibratory forces and manifest vibratorily. Even though sciences instruments are not fine or subtle enough to detect certain ones of these - they are nevertheless there. As we have seen - music lies at the very core - indeed, *is* the core connecting link between all things.

*"For it is not strange, that music, color, vibration are all a part of the planets, just as the planets are a part and a pattern of the whole universe." Cayce (5755-1)*

Colors vibrate, planets vibrate and all in their sphere of influence are modulated thereby. The spheres of influence are the zones and areas effected and affected by their vibrations and their modulating presence within certain vibrating media. A mass such as a planet has a modulating effect on its “space” and “time” and these effects are “sensed” along and through the higher ethereal vibration realms both near and far.

## Conclusion

Beginning with raw metals we have journeyed round about and witnessed connections between these shiny substances with Light, Sound, music, emotions, and Mind itself. Science, *real* science, leaves nothing out of that being studied. Real science ties it all together because it is already all tied together. Sympathetic Vibratory Physics is complete and Who-

listic Science. The acknowledgement and respect used in dealing with the higher elementary particle realms of matter and energy is sometimes referred to as Spiritual Science. Humankind, in its physical beingness, is living in a far greater realm of etheric (spiritual) Mind flows which originate from the One Central Source. These are the physical and energetic realms of that known as God (*see page 7 and 17 for a relativistic statement of beingness. These two pages show that that called 'God' actually permeates everything that is and is the actual basis and foundation of all that is.*) When these views are taken into account and become the mainstream approach or ontology/cosmogony then and only then can we say God's Kingdom has come to earth. Not because it actually moves from somewhere else to here but *because the Mind of Humankind finally recognizes this is the way it is.* It is already here - we have simply failed to acknowledge it...

Yes, Virginia, we are not simply so-called 3-dimensional beings. This cute phrase "3-dimensional" leaves more out than it includes. Consulting the chart on page 7 we can deduce that human beings are indeed molecular beings residing on the 3-dimensional plane where there are found and used the three basic dimensions of height, width and depth. The molecular plane on this chart is represented as the first and *lowest* level out of nine possible or theorized to exist. It can also be seen from the chart that we are also second dimensional as our bodies contain great amounts of gels or semi-solids such as cartilage and colloids. Also on the 3-dimension or level or realm as the atomic is to be included in our description because we are made of atoms. Then on into the higher and higher realms or dimensions because they too are part and parcel of our physical and so-called spiritual make-up. On the fourth plane there are odors and aromas. On the fifth plane are found photons and thus it can be said we are truly beings made of light or light particles.

So in truth - we are multi-dimensional beings existing and being on many levels simultaneously. The idea that we humans are simply molecular constructs is foolish, dangerous and just plain a Simpletonian viewpoint. These

higher planes are all existing *within* the lower planes. Conversely all the lower planes of existence are in existence because they are *composed* of the higher and smaller and more energetic particles. (Please review the charts on pages 46 and 47.) The idea of going within to attain higher states of Mind or spiritual 'idealism' is absolutely true. The quieter one becomes the further 'in' and higher one experiences. Noise or discords are anathema to 'greater spiritual awareness' because discords are away from the calm neutral center of the higher vibrations. It is because these higher and higher states of matter reside deeper and deeper within the grosser and lower states that true spiritual belief systems maintain that God resides within each and every thing existing within the universe. It is also taken for granted that because of this structure everything that is in the universe is made of these ultra-fine, ultra-energized and all-powerful "God-particles". So everything is God so to speak.

Therefore to find and maintain health is not simply a matter of ingesting such-and-such a chemical (molecular) substance on the one extreme or on the other extreme - pure and simple prayer - but a comprehensive therapy that recognizes and works with all the dimensions of materiality and energetics operating throughout the human system and these within themselves and between each other operate according to the principles of music, ratio, proportion, number and time:

*"Tunes and airs have in themselves affinity with the affections, - as merry tunes, doleful tunes, solemn tunes, tunes inclining men's minds to pity, warlike tunes, - so that it is no marvel if they alter the spirits, considering the tunes have a predisposition to the motion of the spirits." Francis Bacon*

*"Now, we find there is the physical body, the mental body, and the spiritual body. The mental body, the concept of mental reaction as is related to the physical functionings of a body, as controlled by or governed through impulses relating to the individuality, or the SOUL of an individual, or an entity. In the SPIRITUAL body, THIS remains ever the same - unless it be magnified or glorified through the individual application of the soul forces of a body as related to its development. Hence we may find that there are conditions that respond wholly to the application of mental forces as related to physical conditions in an*

*existent system. These, then, are controlled through the spiritual insight as is awakened in the INDIVIDUAL entity. In this body we find much of the mental being hindered by this impulse as is often cut off through an impingement in the physical body, regulating impulses to the brain forces, as is seen in this center here in the upper cervical, sympathetically engorged, in the lumbar." Cayce 2372-001*

A careful reading and consideration of the above quote will reveal higher and lower realms of activity effecting each other *sympathetically* and directly such as the mental being being adversely affected by the lack of a bodily function which is in turn reactionary to the soul forces. *All that is contained in the human organism is connected to all the other components of that system.* None of the parts or functions can be isolated from the others and regarded as a "functional sub-system" as sometimes does the "orthodox" or "accepted" methodology.

Hard, cold and sterile modern science is as dead as the matter it professes to study. It has divorced Mind and the concept of God from it's science and theories thus creating and perpetuating a Mindless and Godless society. It is this Mindlessness/Godlessness that has brought Humankind to the very brink of extinction. Science sees no reality beyond its dead chemicals and lifeless atoms. It sees no reason, no intelligence, offers no hope and sees no future except that as portrayed in its own Mindless and Godless prattlings - DEATH. As a technologically created and driven society these views of deadness have permeated society's consciousness and become its reality and quite possibly its future. Dead science begets a dead society.

*"In the present, these individuals do not justly call it science; rather, being close to nature. Listen to the birds. Watch the blush of the rose. Listen for the life rising in the tree. These serve their Maker. Through what? Through that psychic force which is life itself; each in its respective sphere ... put there for the service of man." Cayce (364-10)*

The truths expressed herein are simple just as Nature is simple. As the truth begins to seep into the Mind of Man we will begin to witness a true resurrection of the physical, mental and spiritual triune structure known as Man or Hu-

mankind. Only the truth brings Life, Light and Love. As we begin to perceive the physical side of life as being a small portion of the totality that is Life we begin to create a society as envisioned. Heaven is indeed here on earth already as indicated but we have long lived and accepted the illusion that materiality is the reality when in actuality it is a deception or a lie. It is simply a matter of seeing the Truth of the situation and then living it. Perception is a mental ability and deciding to change one's viewpoint and consequent actions are of the conceptual mental forces and then the active Will force is called upon to enable one to LIVE IT. In other words, 1) see the Truth; 2) change one's concept of life and then 3) act as it were the Truth in place of the illusionary precepts now held. In even simpler words - JUST DO IT!

As alluded to herein - Mind is the Grand Creative element ever at Man's disposal. He must, however, chose to *exercise his volition* for it to have any beneficial effects to him.

*Q-18: Should the Christ Consciousness be described as the awareness within each soul, imprinted in pattern on the mind and waiting to be awakened by the will, of the soul's oneness with God?*

*A-18: Correct. That's the idea exactly! Cayce (5749-19)*

This is a gift, this Light of understanding, that if picked up and used properly can take us to our rightful place and position - the very throne of the Divine.

*"In the manifestation of all power, force, motion, vibration, that which impels, that which detracts, is in its essence of one force, one source, in its elemental form. As to what has been done or accomplished by or through the activity of entities that have been delegated powers in activity, is another story.*

*"As to the one source or one force, then, are the questions presented in the present.*

*"God, the first cause, the first principle, the first movement, IS! That's the beginning! That is, that was, that ever will be!*

*"The following of those sources, forces, activities that are in accord with the Creative Force or first cause - its laws, then - is to be one with the source, or equal with yet separate*

from that first cause.

"When, then, may man - as an element, an entity, a separate being manifested in material life and form - be aware or conscious of the moving of that first cause within his environ?

"Or, taking man in his present position or consciousness, how or when may he be aware of that first cause moving within his realm of consciousness?

"In the beginning there was the force of attraction and the force that repelled. Hence, in man's consciousness he becomes aware of what is known as the atomic or cellular form of movement about which there becomes nebulous activity. And this is the lowest form (as man would designate) that's in active forces in his experience. Yet this very movement that separates the forces in atomic influence is the first cause, or the manifestation of that called God in the material plane!

"Then, as it gathers of positive-negative forces in their activity, whether it be of one element or realm or another, it becomes magnified in its force or sources through the universe.

"Hence we find worlds, suns, stars, nebulae, and whole solar systems, moving from a first cause.

"When this first cause comes into man's experience in the present realm he becomes confused, in that he appears to "have an influence upon this force or power in directing same. Certainly! Much, though, in the manner as the reflection of light in a mirror. For, it is only reflected force that man may have upon those forces that show themselves in the activities, in whatever realm into which man may be delving in the moment - whether of the nebulae, the gaseous, or the elements that have gathered together in their activity throughout that man has chosen to call time or space. And becomes, in its very movement, of that of which the first cause takes thought in a finite existence or consciousness.

"Hence, as man himself applies himself - or uses that of which he becomes conscious in the realm of activity, and gives or places the credit (as would be called) in man's consciousness in the correct sphere or realm he becomes conscious of that union of force with the infinite with the finite force.

"Hence, in the fruits of that - as is given oft, as the fruits of the spirit - does man become aware of the infinite penetrating, or interpenetrating the activities of all forces of

matter, or that which is a manifestation of the realm of the infinite into finite - and the finite becomes conscious of same.

"As to the application of these as truths, then:

"It may be said that, as the man makes in self - through the ability given for man in his activity in a material plane - the will - one with the laws of creative influence, we begin with:

"Like begets like - As he sows, so shall he reap - As the "man thinketh in the heart, so is he."

"These are all but trite sayings to most of us, even to the thinking man; but should the mind of an individual (the finite mind) turn within his own being for the law pertaining to these trite sayings, until the understanding arises, then there is the consciousness in the finite of the infinite moving upon and in the inner self.

"So does life in all its force begin in the earth. The moving of the infinite upon the negative force of the finite in the material, or to become a manifested force." Cayce (262-52)

It is suggested that those finding an interest herein should pursue these ideas and concepts with enthusiasm and purpose. The world is in dire need of a better technology whether it be applied directly to healing or to other fields such as energy and power development, distribution and use, communications and applied or pure research. The new science of the future will be based on *sympathetic vibration* which is Love.<sup>29</sup> Conventional science is based in fear (ignorance) and violence. It does not admit that there exists higher and greater forces already inherent in all matter and forms of energy. It maintains that to get energy out of a system energy must be purchased (from them) and put into the system. This, of course, is absurd. All matter is made of smaller and much more energetic forces of 'matter' or energy bound centrally. This greater source of energy needs to be but coaxed out of its place of quiet and this can best be done with the principles as are found and used in music.

"The speculations of the physicists of the present age (1892), in regard to latent energy, would neutralize the sympathetic conditions that are associated with the governing force of the cerebral over the physical organism. The evolution of a thought, the infinite exciter,



*arouses the latent energy of the physical organism to do its work, - differential orders of brain- force acting against each other under dual conditions. If there were no latent energy to arouse, sympathetically, there would be no action evolved on the physical mass, nor on any other, as all force is mind force. All evolutions of latent power, in its varied multiplicity of action, induced by its proper excitors, prove the connective link as between the celestial and the terrestrial, the finite and the infinite." (Keely)*

Even as early as the 1880s Keely was investigating the connections between the forces associated with the brain (Mind Forces) and the fundamental modes of human actions. He figured that all force is a latent condition permeating all matter including the molecular structure of the human body. He maintains, and we are now beginning to find out, that the release of these energies is not so much the ingesting and ‘burning’ of calories, etc. but is in fact the release of sub-atomic energies from their nuclear<sup>30</sup> confines by modulations of super-high frequencies as are commonly associated with the brain itself. He determined the active element was a fine vapor or flow of sub-atomic particles much like the flow of electrons in electrical activity. However he felt this flow was of a much finer quality composed of particles much finer than even electrons or their component sub-elements - photons or particles of light. These particles during their activities would at times slow down and convert into visible light and sensible heat and other manifestations of life. Steiner referred to these lower forms of the Mind Force as Light Ether and Warmth Ether being a flow of particles of the tiny etheric realms of matter and energy (see chart page 7 and box on page 42). Keely referred to this class of particles as ether which is an ultra-fine ‘gas’ or plasma made of etheron particles. This fine flow of ether particles he called the **compound interetheric element**. According to this view the energy contained therein is beyond man’s ability to compute it far surpassing anything known or hinted at in scientific literature.

*“The luminiferous ether - the **compound interetheric element** - in other words, celestial mind force - is the substance of which all visible and invisible things are composed.”*

*"The fundamental mode of vibration changes as we reach the fifth subdivision [of matter], to the dominant, the diatonic third of the mass chord, which controls the vibratory states of both the etheron and interetheron. The awful might concealed in the depths of the etheric and interetheric subdivisions utterly transcends anything Science has ever known. Even the theoretical energy value of radium now accepted by Science, pales into insignificance in comparison to the energy value of an equal amount of water subdivided to the etheric or interetheric state." Keely*

It is to this flow of high state energy that is liberated from its confines associated with the brain that is referred to by the ancients when they say Mind is the most powerful force in the universe. Since all matter is composed of these particles ultimately and each is in sympathy with all others then it does stand to reason that all that there is is connected and the connecting link is sympathetic vibration or Love depending on your stance.

*There is no conductivity in the ether lines, writes Sinclair, for selfish desires and motives; for they are not of the soul, but are only sounds of the lips (or wishes of the material part of us), so that the established connecting-rod between the living soul and the source of life is insulated from desires that are not begotten in sympathy, and they at once run to earth. Where there is no connection there can be no communion. Without the natural sympathetic etheric connection between the source of life and the soul, there can be no communication. "A New Creed," like the sympathetic etheric philosophy of Keely, reveals the connecting link between the finite and the Infinite, and teaches us that the primal law of evolution and of progress is slowly but surely preparing our race for the time when Christianity will be something more than a mere profession, and "the brother hood of humanity" will no longer be the meaningless phrase that it now is. We are led to see, by this pure philosophy, that "our solar system is a type of a healthy social system; that in each one affects, binds, controls, sustains, helps, makes free each other; that no star lives for itself alone;" that man was not made to mourn, and that our sufferings arise from our ignorance of the laws governing the innate motive power within us. Bloomfield-Moore*

Modern quantum mechanics has reached a point in its development that it *has* to admit of a higher source than man can detect or measure. It has no where to go but into the what

used to be called the higher realms of divinity. These higher realms are the dimensions or zones or states of matter and energy Keely investigated over 100 years ago and postulated by philosophers and spiritual devotees for centuries. Eventually they will be forced to also admit that the only force in the universe that can build or create is Love through Mind. What is this force or condition called Mind? Mind is that realm of conditions of high positive and negative associations through which the Creative Forces (sometimes called God) are, act and become.

*"For, of the dust of the earth was the body-physical created. But the WORD, the MIND, is the controlling factor of its shape, its activity, from the source, the spiritual entity." Cayce (263-13)*

*"The earth and the universe, as related to man, came into being through the Mind - Mind - of the Maker, and, as such, has its same being much as each atomic force multiplies in itself." Cayce (900-227)*

*Then MIND, as He, was the WORD - and dwelt among men; and we beheld HIM as the face of the Father." Cayce (1567-2)*

*"Because our mind, the Son, is within us."*

*"Then with that consciousness of His awareness, we may know even as He has given, "Ye abide in me, as I in the Father - I will come and abide with thee."*

*"In that consciousness, then, the purposes for which each soul enters materiality are that it may become aware of its relationships to the Creative Forces or God; by the material manifestation of the things thought, said, DONE, in relation to its fellow man!" Cayce (1567-2)*

This subtle yet all-powerful array of energy is recognized in conventional scientific jargon as *sympathetic vibration* and none other. This phenomenon is often confused with *resonance* which is an effect of sympathetic vibration and not a causative agent at all as commonly perceived. The science of sympathetic vibration is not unknown and has been written about by many in the past. Rudolph Steiner said in one of his many lectures in 1913:

*"The "West-people" of England and North America will develop the material-mechanical occultism. They will be able to create*

*machines, mechanical devices which work with hardly any human effort; which work with the help of the "Laws of Sympathetic Vibrations." These machines will do about 90% of the work, and all the social and material trouble of work as we know it now, will cease to exist." (Rudolph Steiner, 1913)*

For sympathetic vibration to be admitted to the halls of science it will be necessary for the scientists residing therein to recognize and embrace the concept of Love and Harmony. For, as we have seen, this is the operative influence in the universe. To date we see little evidence of this acceptance. Science today serves those who can pay for it. These, more and more, are those forces who have assumed monopolistic footholds on societies needs and desires. It seems the driving influence in these forces is to GET more and more materiality whether it be money, possessions or power over same. To gain greater market share under these ideals a certain amount of ruthlessness is required. However there is a subtler method. This method was spoken about and acted upon by the original Henry Ford when he professed to be serving his market. He maintained that if the market liked his car it would support his effort to make more of them. That his viewpoint was correct is a matter of history. Modern business sees the acquisition and control of materiality as a basis of wealth and profit and therefore has gone the other way and is out to GET all it can for itself. The only way to truly acquire is to give whether it be quality service or a quality product. Just any old standard of service or product will not suffice. Costs and prices are, of course, negotiable. To serve an ever broader array of society it takes Love and Understanding. Service to others in whatever form is the only way to higher and better levels of existence whether they be considered on the material or spiritual planes or any others in between.

*"What, then, is the purpose of the entity's activity in the consciousness of mind, matter, spirit in the present? That it, the entity, may know itself to be itself and part of the Whole; not the Whole but one with the Whole; and thus retaining its individuality, knowing itself to be itself, yet one with the purposes of the First Cause that called it, the entity, into being, into the awareness, into the consciousness of itself. That is the purpose, that is the cause of being."*

*In what manner, in what way may I apply myself as an entity, as an individual, to fill that purpose whereunto the First Cause has its influence, its way, its purpose with me?*

*For thy physical self may only see the reflection of good, while thy spiritual self may be that good in the activities of thy fellow man in such measures that ye bring - what?*

*Ever, ever, the fruits of the Spirit in their awareness; long-suffering, brotherly love, patience, kindness, gentleness, hope and faith! Then so live, so act, so think that others seeing thy good works, thy hopes that ye bring, thy faith that ye manifest, thy patience that ye show, may also glorify Him." Edgar Cayce 826-11*

*"Then what is the purpose of each soul entering a material manifestation? That it may be a witness-bearer for and unto the glory of the Father which has been manifested through the Son, even Jesus; in making then those activities in which such may be the purpose, the desire of the individual entity.*

*It is not then that there may be the satisfying of the mental or material body, or mind. It is not to the indulgence of, nor to the glory of self alone, but that -- through the very activities of the body and mind -- the fruits of the spirit of truth may be manifested in the material experience.*

*These truths, these experiences, only find expression in relationships with others. Just as He hath given, "Inasmuch as ye have done it unto the least of these, thy brethren, ye have done it unto me -- inasmuch as ye did not these things unto thy brethren, ye did them not unto me."*

*Hence in the relationships, the meetings with others in whatever form or manner, such are not coincidental but are rather as purposeful experiences.*

*Then there must be the filling of the purpose, if there will be the glorifying of His love, His truths, His presence, by that done to and through the activities with the fellow man -- whoever, wherever such may be; in such a way and manner that His glory is made manifest in thy dealings with thy fellow man.*

*Look then into thine own heart, thine own mind. See thyself, as it were, pass by. What is thy desire? What is thy purpose? What -- and who -- is thy ideal?*

*What gave He as the whole law? To love thy God with all thy mind, thy body, thy purpose; and thy neighbor as thyself! This is the whole*

*law.*

*These are the principles, these are the basic truths upon which joy, peace and understanding may be thine; and thy life, thy activities, thy associations with others will ever be beautiful, peaceful, harmonious." Edgar Cayce 1722-1*

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1 In the early years of its discovery platinum was thought to be single element. Later it was found to be a compound of six elements which were eventually separated out and today we recognize and use them separately. The family members are: iridium, osmium, palladium, ruthenium, and rhodium.

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8 You may order GaiaCol and OxySol from:

**New Gaia Products**  
P. O. Box 27710  
Las Vegas, Nevada 89126  
(800) 639-4242

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- 28** Caution is called for here. Modern usage (after 1930s) varies and it appears as though the definition of positive and negative were switched. The modern idea of negative is what is referred to in this book and all other previous literature as positive - that which is active. The negative (old) is the receptive or positive of today! How can such fundamental definitions get switched?
- 29** Rudolph Steiner, from a lecture given in 1913.
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## Ether - Fact or Fiction? What the Scientists say...

"[He supposed that nature] "may be nothing but various Contextures of some certain aethereal Spirits or vapours condensed as it were by precipitation, much after the manner that vapours are condensed into water or exhalations into grosser Substances and after condensation wrought into various forms, at first by the immediate hand of the Creator, and ever since by the power of Nature... Thus perhaps may all things be originated from aether." Newton

"The exceeding smallness of its [ether] Particles may contribute to the greatness of the force by which those Particles may recede from one another, and thereby make the Medium exceedingly more rare and elastik than Air, and by consequence exceedingly less able to resist the motions of Projectiles, and exceedingly more able to press upon gross Bodies, by endeavoring to expand it self." Newton

"In making this comparison [between the wave and the corpuscular theories of light] it is not enough to rest in vague explanations which may be molded to suit any theory. Whatever be the apparent simplicity of an hypothesis, - whatever its analogy to know[n] laws, - it is only when it admits of mathematical expression, and when its mathematical consequences can be numerically compared with established facts, that its truth can be fully and finally ascertained. Considered in this point of view, the wave-theory of light seems now to have reached a point almost, if not entirely, as advanced as that to which the theory of universal gravitation was pushed by the single-handed efforts of Newton. Varied and comprehensive classes of phenomena have been embraced in its deductions; and where its progress has been arrested, it has been owing in a great degree to the imperfections of that intricate branch of analysis by which it was to be unfolded." Lloyd

"The theory I propose may ... be called a theory of the Electromagnetic Field, because it has to do with the space in the neighborhood of the electric and magnetic bodies, and it may be called a Dynamical Theory, because it assumes that in that space there is matter in motion, by which the observed electromagnetic phenomena are produced.

What I propose now to do is to examine the consequences of the assumption that [electromagnetic] phenomena ... are those of a moving system [ether], the motion being communicated from one part of the system to another by forces, the nature and laws of which we do not yet even attempt to define, because we can eliminate these forces from the equations of motion by the method given by Larange for any connected system." Maxwell

Dr. MacVicar, in his theories of the bearing of the cosmical law of assimilation on molecular action, says: "During this retreat of matter into ether in single material elements or units of weight, the molecules and masses from which such vaporization into the common vapor of matter is going on, may be expected to be phosphorescent." This surmise Keely has, over and over, demonstrated as a fact, also showing how gravitation operates as a lever, etheric wave motion, concentration under vibratory concussion, and negative vacuous tenuity."

"Luminiferous ether must be a substance of most extreme simplicity. We might imagine it to be a material whose ultimate property is to be incompressible; to have a definite rigidity for vibrations in times less than a certain limit, and yet to have the absolutely yielding character that we recognize in wax-like bodies when the force is continued for a sufficient time. It seems probable that the molecular theory of matter may be so far advanced sometime or other that we can understand an excessively fine-grained structure and understand the luminiferous ether as differing from glass and water and metals in being very much more finely grained in its structure. We must not attempt, however, to jump too far in the inquiry, but take it as it is, and take the great facts of the wave theory of light as giving us strong foundations for our convictions as to the luminiferous ether." Lord Kelvin (Wm. Thomson)

(after referring to 'the velocity which is the conductance in electrostatic measure, and the resistance in electromagnetic measure of one and the same conductor', and stating that this velocity is 'not very different from that of light'): "But its relationship to the velocity of light was brought out in a manner by Maxwell to make it really a part of theory which it never was before. Maxwell pointed out its application to the possible or probable explanation of electric effects by the influence of a medium, and showed that that medium - the medium whose motions constitute light - must be ether. Maxwell's 'electro-magnetic theory of light' marks a stage of enormous importance in electro-magnetic doctrine, and I cannot doubt but that in electro-magnetic practice we shall derive great benefit from a pursuing of the theoretical ideas suggested by such considerations." Lord Kelvin (Wm. Thomson)

"It is, no doubt, possible that ... [electrical forces] may be discovered to be produced entirely by the action of contiguous particles of some intervening medium, and we have an analogy for this in the case of heat, where certain effects which follow the same laws are undoubtedly propagated from particle to particle. It might also be found that magnetic forces are propagated by means of a second medium, and the force of gravitation by means of a third." Lord Kelvin (Wm. Thomson)

"We thus have simply the undulatory theory of light, as an inevitable consequence of believing that the displacement of an elastic solid by which, in my old paper [of 1847], I gave merely a 'representation' of the electric currents and the corresponding magnetic forces, is a reality. But to give anything like a satisfactory material realization of Maxwell's electro-magnetic theory of light, it is necessary to show electro-static force in relation to the forcive (X, Y, Z) of my formulas; to explain the generation of heat according to Ohm's Law in virtue of the action of this forcive when it causes an electric current to flow through a conductor; and to show how it is that the velocity of light in

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ether is equal to, or perhaps we should rather say, is, the number of electro-static units in the electro-magnetic unit of electric quantity. All this essentially involves the consideration of ponderable matter permeated by, or imbedded in ether, and a tertium quid which we may call electricity, a fluid go-between, serving to transmit force between ponderable matter and ether ... I see no way of suggesting properties of matter, of electricity, or of ether, by which all this, or any more than a very slight approach to it, can be done, and I think we must feel at present that the triple alliance, ether, electricity, and ponderable matter is rather a result of our want of knowledge, and of capacity to imagine beyond the limited present horizon of physical science, than a reality of nature." Lord Kelvin (Wm. Thomson)

"whether one does not in general have to conceive magnetic and electric phenomena as conditions of a medium, perhaps the luminiferous ether, and whether particularly one does not have to assume that magnetic and electric forces are only apparent actions at a distance, being in fact immediate actions of the medium, dependent on its momentary states and therefore also propagated, just as these states, with finite velocity." Stefan

[It is] "by means of chemistry that Sir Isaac Newton has made a great part of his surprising discoveries in natural philosophy; and that curious set of queries, which we find at the end of his optics, are almost wholly chemical. Indeed chemistry, in its extent, is scarce less than the whole of natural philosophy." Shaw

"either caloric or a universal ether; higher still perhaps are the causes of gravitation, and the immediate agents of attractions of all kinds... It seems therefore natural to believe that the analogy may be continued still further, until it rises into existences absolutely immaterial and spiritual. We know not but that thousands of spiritual worlds may exist unseen for ever by human eyes." Young

"It has seemed to me useful to develop a theory of electromagnetic phenomena based on the idea of a ponderable matter perfectly permeable to the ether and able to move without communicating to the latter the least motion. Certain facts of optics may be invoked in support of this hypothesis and, although doubt is still permitted, it is certainly important to examine all the consequences of this view. Unfortunately, a quite serious difficulty presents itself from the beginning. How, in fact, is one to form a precise idea of a body which, moving in the bosom of the ether and consequently traversed by this medium, is at the same time the seat of an electric current or a dielectric phenomenon? To surmount this difficulty, so far as I could, I have sought to reduce all the phenomena to a single one, the simplest of all, which is nothing else than the motion of an electrified body. One will see that, without any deeper study of the relation between ponderable matter and the ether, one can establish a system of equations suited to describe what passes in a system of such bodies. These equations accommodate very varied applications, which will be the object of the subsequent chapters." Lorentz

"I have yet another motive to undertake these inquiries. In the memoirs in which M. Hertz treats bodies in motion, he admits that the ether they contain moves with them. Now, optical phenomena have long since demonstrated that it is not always so. I therefore wished to know the laws that govern the electrical motions in bodies that traverse the ether without entraining it; and it seemed to me difficult to attain this end without having as guide a theoretical idea. The views of Maxwell [namely, on the application of mechanical principles to the field and charges as a 'connected mechanical system'] can serve as foundation of the desired theory." Lorentz

"though God alone is the Author and Preserver of all Things, and which continually upholds with his immediate Hand; yet, the only instrumental Cause of our Being is this subtle Spirit... In a Word, this pure Aether or Fire, contained in Air, is the Cause of all Motion, animal and vegetable." Lovett

"Only if the ponderable particles contain charges of true electricity can the periodic alternations of the electric moments in the ether educe ponderomotive forces of the same period. The analogous assumption, that embedded atoms contain isolated northern or southern magnetism, I pass over as too improbable. On the other hand, the electrolytic phenomena, especially Faraday's law of electrolytic equivalents, have long since led to the assumption that electric charges of determinate magnitude attach to the valence positions of chemically bound ions - charges that can be now positive, now negative, but which must be everywhere, for every valence position of every atom, have the same absolute magnitude." Helmholtz

Hertz conjectured that a knowledge of the structure of the ether would reveal the essence of matter itself together with its inherent properties, weight and inertia. He said, "Soon the question set by modern physics will be 'Are not all things due to conditions of the ether?'" He discovered in 1888 that the ether had been imprisoned and used as a fulcrum for electric attraction and repulsion in every electromagnetic engine, without any scientist even so much as suspecting it before. Pythagoras considered the Ether as a divine luminous principle which prevades and permeates all things. The German mystics called it the "Weltgeist" or "Astral Light." Newton believed that through its activity and strength bodies were caused to attract each other and adhere.

"The elementary system of the moving forces of matter depends upon the existence of a substance which is the basis (the primordially originating moving force) of all moving forces of matter, and of which it can be said as a postulate (not as a hypothesis): There exists a universally distributed all-penetrating matter within the space it occupies or fills through repulsion, which agitates itself uniformly in all its parts and endlessly persists in this motion." Kant

"One continuous substance filling all space: which can vibrate as light; which can be sheared into positive and negative electricity; which in whirls constitutes matter; and which transmits by continuity, and not by impact, every action and reaction of which matter is capable. This is the modern view of the ether and its functions." Lodge

"If the degree of Heat in a solid Body, to which the Expansive Force of the Aether between the Parts of Body is Proportional, be equal to the Force wherewith the Parts of the Body cohere; that Body, setting aside external Com-

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pression, will become fluid, and its Parts, by yielding to a Force impressed, be rendered capable of moving easily amongst themselves." Robinson

"A formula has been given by Maxwell for the intensity of the pressural force produced by electric undulations in the aether striking against a plate of conducting matter, a force which has apparently not been detected for the case of light-waves. If the notions here suggested have any basis, this force may likely be non-existent." Larmor

"there seems no doubt that the simplest theory as to the constitution of the ether is that it is a perfect liquid; it seems almost impossible to explain electric and magnetic phenomena without some further hypothesis ... Now, it seems certain that the only way in which a perfect liquid can become everywhere endowed with properties analogous to rigidity is by being everywhere in motion. The most general supposition of this kind would be, that it was what Sir William Thomson has called a vortex-sponge, i. e., everywhere endowed with vortex motion, but with this motion so mixed up as to have within any sensible volume an equal amount of vortex motion in all directions. There are many ways in which this supposition seems to be in accordance with what we know of the properties of the ether." Fitzgerald

"I cannot conclude without protesting strongly against Sir William Thomson's speaking of the ether as like a jelly. It is in some respects analogous to one, but we certainly know a great deal too little to say that it is like one. May be Maxwell's conceptions as to its structure are not very definite, but neither are anybody's as to the actual structure of a jelly, and there is no real difficulty in supposing a medium whose condition is represented by symbols that obey the laws that Maxwell has shown should be the laws of symbols representing the condition of a medium that would explain electric and magnetic phenomena ... It seems ... likely that what he [Maxwell] called 'electric displacements' are changes in structure of the elements of the ether, and not actual displacements of the elements ... so that I think the word 'displacement' was unfortunately chosen. I also think that Sir William Thomson, notwithstanding his guarded statements on the subject, is lending his overwhelming authority to a view of the ether which is not justified by our present knowledge, and which may lead to the same unfortunate results in delaying the progress of science as arose from Sir Isaac Newton's equally guarded advocacy of the corpuscular theory of optics." Fitzgerald

"There are, of course, many ways in which matter may move through the ether besides by displacing it; as, for instance, in the way in which a volume of liquid water might pass through ice, namely by dissolving in front, and by freezing as fast behind, and such hypotheses do not require any limit to be assigned to the rigidity of the ether. In all these cases it is, of course, evident, that when once it is shown that the energy of the medium depends on quantities which obey the laws of Maxwell's electric and magnetic induction and displacements, it follows that the forces on the places that represent the electrified and magnetized bodies must be the known electric and magnetic attractions and repulsions; and one great difficulty in framing hypotheses as to the connexion [sic] of the ether and matter is explaining how the matter moves through the ether." Fitzgerald

"In discussing the result of Michelson and Morley's experiments, from which they concluded that the ether is carried along by the Earth in its motion, Mr. Larmor shows that such a hypothesis is quite inconsistent with the fact of aberration and with the tenability of Sir George Stokes's suggestion that ether is like a very soft jelly. How such a soft material could be the means by which tramcars are driven by shearing stresses seems an additional difficulty in the way of this suggestion." Fitzgerald

"All theories of the ether that suppose it to be simply a jelly with matter spread through it, like grapes in a jelly, hardly seem to attribute sufficient importance to the difficulty of explaining upon any such simple hypothesis such phenomena as electricity and magnetism; and although the equations of motion of the jelly may fairly well represent the equations of motion of the ether, as regards its propagation of light, yet the properties of a jelly prevent our supposing continuous rotation of its elements, which seems almost necessary in order that the same quantities which represent small motions in the light-propagation may represent known phenomena in electricity and magnetism.

Although Professor Stokes seems to think that there is no contradiction in supposing the ether to be a jelly, and at the same time sufficiently little rigid to permit the free motion of matter through it, nevertheless, there is no doubt that this is a serious stumbling-block in the way of a general acceptance of the hypothesis that the ether is, in all respects, like a thin jelly, and I hardly think the difficulty diminished when its strains, as a rigid body, are required to be capable of producing permanent electrical forces." Fitzgerald

"I need hardly say that I do not intend it to be supposed that the ether is actually made up of wheels and india rubber bands, nor even of paddle-wheels, with connecting canals. I think, however, that we may learn several things as to the conditions that the elements of ether should fulfill if they are to represent Maxwell's equations by motions in ways analogous to those of my model." Fitzgerald

"In 1893 the formal development of electrodynamic theory from this point of view [by myself], inspired at the start by Fitzgerald's electric interpretation of MacCullagh's optical analysis, and by mechanical models based on Lord Kelvin's construction for a rotationally elastic aether, and resting directly on the single broad dynamical basis of the principle of Least Action ... was initiated in Great Britain; it was practically complete in 1897, running parallel in the main results, though not in method or mode of development, with Lorentz's final presentation in his tract of 1895." Larmor

Fichte writes: "The will is the living principle of the world of spirit as motion is of the world of sense." Newton said that this subtle ether interpenetrates all matter and is concealed in their substance, through the strength and activity of which, bodies attract each other and adhere together when brought in contact, annihilating distance, as if ob-

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jects might touch each other. Through this "life spirit" light also flows, is refracted and reflected and bodies are warmed. Pythagoras viewed this as a divine luminous principle or substance which permeates all things and at the same time contains all things. They called it the astral light. The Germans call it the "Welgeist".

"If [two] material essences, which are spatially and temporally separated, interact, then the ground of this interaction lies in the essence of both as a whole. The interdependent parts of this whole exist in different spatial and temporal points. If there are material essences which as wholes cannot be reduced to a point in space and time, that applies even more to spiritual essences." Fechner

"Everything that has been done in physics since the work of Dr. Young on light and the discovery of M. Ørsted is preparation for a new era ... Explanations deduced from the effects produced by the motion of imponderable fluids will gradually replace those now accepted ... I believe that we must look to the motions of fluids distributed in space for the explanation of general effects." Ampere

"the infinite divine Spirit of HOLY GHOST, and the UNIVERSAL AETHERS or elemental Fire ... Because as the mechanic philosophers make the Aether the cause of attraction, muscular motion and other extraordinary phenomena of matter: So is the HOLY GHOST the cause of all spiritual conduct, which is consonant to the divine Law." Barton

"Sir Isaac Newton is of the opinion that there is in nature a certain fluid of exceeding elasticity and density, that pervades all nature, the different modifications of which produce the phenomena of Electricity, magnetism and Gravity and the cohesion of the smaller parts of bodies to each other... I am therefore of the opinion that this is the inflammable principle." Black

"If the density of the one [chemical element] is not so much greater than that of the other as to overcome the attraction of its parts, the aether in each upon their approach will repel each other. If the density is greater, they will be attracted and join each other." Cullen

"Every body is surrounded by its own proper atmosphere of this fluid [ether], which grows more dense as it recedes from the surface. This is analogous to the atmosphere of excited electricity which determines bodies once got within the sphere of its attraction to the surface of the electric body. It is to be observed, that bodies thus in contact with the excited body, remain, some longer, some a shorter time in contact with that body, until they have got an atmosphere of their own: then they are propelled till meeting with some other matter, they discharge their atmosphere, and are attracted and repelled as before." Cullen

"Indeed, no other art of the whole compass of philosophy affords so fine a scene for ingenious speculation. Here the imagination may have full play, in conceiving of the manner in which an invisible agent produces an almost infinite variety of visible effects. As the agent is invisible, every philosopher is at liberty to make it whatever he pleases, and ascribe to it such properties and powers as are most convenient for his purpose." Priestley

S. Zolver Preston, in his *Physics of the Ether*, says: "A quantity of matter representing a total mass of only one grain, and possessing the normal velocity of the ether particles, that of a wave of light, encloses a state of energy represented by upward of one thousand millions of foot tons. Or the mass of a single grain contains an energy not less than that possessed by a mass of 70,000 tons, moving at the speed of a cannon ball (1200 feet per second); or, otherwise, a quantity of matter, representing a mass of one grain, imbued with the velocity of the ether particles, encloses an amount of energy which, if entirely utilized, would be competent to project a weight of 100 tons to a height of one mile and nine-tenths of a mile."

"Thus this motion [of the ether] was so slow that the experiments of M. Lodge, although very precise, were yet not precise enough to detect it. To say all that I think, I believe that if these experiments had been a hundred or a thousand times more precise, the result would still have been negative.

In support of this opinion I have nothing to offer but a subjective conviction; if the result had been positive, one would have been able to measure the density of the ether, and - if the reader forgive me the vulgarity of this expression - it is repugnant to me to think that the ether is *si arrivé que cela* [that big a success]." Poincaré

Eight theses on ether by Ernst Haeckel:

I. Ether fills the whole space, in so far as it is not occupied by ponderable matter, as a continuous substance; it fully occupies the space between the atoms of ponderable matter.

II. Ether has probably no chemical quality, and is not composed of atoms. If it be supposed that it consists of minute homogeneous atoms (for instance, indivisible ethereal particles of a uniform size), it must be further supposed that there is something else between these atoms, either "empty space" or a third, completely unknown medium, a purely hypothetical "inter-ether"; the question as to the nature of this brings us back to the original difficulty, and so on in infinitum.

III. As the idea of an empty space and an action at a distance is scarcely possible in the present condition of our knowledge (at least, it does not help to clear a monistic view), I postulate for ether a special structure which is not atomistic, like that of ponderable matter, and which may provisionally be called (without further determination) ethereal or dynamic structure.

IV. The consistency of ether is also peculiar, on our hypothesis, and different from that of ponderable matter. It is



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neither gaseous, as some conceive, nor solid, as others suppose; the best idea of it can be formed by comparison with an extremely attenuated, elastic, and light jelly.

V. Ether may be called imponderable matter in the sense that we have no means of determining its weight experimentally. If it really has weight, as is very probable, it must be so slight as to be far below the capacity of our most delicate balance. Some physicists have attempted to determine its weight by the energy of the light-waves, and have discovered that it is some fifteen trillion times lighter than atmospheric air; on that hypothesis a sphere of ether of the size of our earth would weigh at least two hundred and fifty pounds.

VI. The etheric consistency may probably (in accordance with the pyknotic theory) pass into the gaseous state under certain conditions by progressive condensation, just as a gas may be converted into a fluid, and ultimately into a solid, by lowering its temperature.

VII. Consequently, these three conditions of matter may be arranged (and it is a point of great importance in our monistic cosmogony) in a genetic, continuous order. We may distinguish five stages in it: (1) the etheric, (2) the gaseous, (3) the fluid, (4) the viscous (in the living protoplasm), and (5) the solid state.

VIII. Ether is boundless and immeasurable, like the space it occupies. It is in eternal motion; and this specific movement of ether (it is immaterial whether we conceive it as vibration, strain, condensation, etc.), in reciprocal action with mass-movement (or gravitation), is the ultimate cause of all phenomena.

## APPENDIX II

### Electromagnetic Radiation

by John E. W. Keely

"If the persistency of our vision could be reversed, so as to have the power to follow the track of the molecule's oscillations under a high condition of vibratory acceleration, associated with the assisting power of the finest instruments known at present in scientific research, it would not help us to determine the period of time wherein the sympathetic actions in nature are propagated. Therefore, we cannot with any degree of certainty, establish a foundation whereon observation, so associated, is reliable." (Theoretically explained in Soul of Matter.)

"As far as my researches have gone, I find that there is but one condition approaching reliability, and that is in computing the intermittent periodic disturbances along a nodal vibratory transmitter - the nodes of gold, silver and platina - a fixed number placed at such different distances along its line, as to take up and equalize (by a certain order of vibratory transmissions) the chord masses of the nodal interferences between the triple metals of which the nodes are composed, and also the acoustic introductory impulse of whatever chord is set. This will determine the rate of their accelerated molecular oscillation, so induced beyond their normal standard, and give us some definite figures in the computing of vibration, thousands of billions of times more than those of light.

Light is induced by electromagnetic percussion emanating from the ether, and in its action represents the plane of magnetism. In fact, it is the plane of magnetism when under polarization. (Platina wires the thickness of a fine hair associated with each of the nine nodal beads, and concentrated towards a general center of focalization, attaching the other end of the wires to the focal center, will determine, by the magnetic conduction, the number of corpuscular oscillations per second induced by a thought, either positive or negative, in the central centers. These are the only conditions - those of magnetic conduction - whereby the evolution of a thought can be computed in regard to its force under propagation, as against the amount of latent energy set free to act as induced by such thought on the physical organism.) Some scientific theories of the past have taught us that electricity and magnetism are one and the same thing. Sympathetic vibratory philosophy teaches that they are two distinct forces of one of the triune sympathetic family.

"I will try to make comprehensible the computation of the number (even to infinity) of the corpuscular oscillations, induced on the introductory ninths, over their normal standard. The molecules of all visible masses, when not influenced by surrounding acoustic vibratory impulses, move at a rate of 20,000 oscillations per second, one third of their diameters. We have before us one of these masses, either a silver dollar, a pound weight, a horseshoe, or any other metallic medium, which I associate to one of my nodal transmitters, the other end of which is attached to the clustered thirds (or third octave) of my focalizing neutral concentrator. Another transmitter, of gold, silver and platina sections, is attached to the sixth cluster of same disk, the other end of which is connected to resonating sphere on my compound instrument, all of which must be brought to a state of complete rest. Then, a slight tap, with a vulcanite rubber hammer on the Chladni resonating disk, will accelerate the 20,000 molecular oscillations to 180,000 per second, an increase of nine times the normal number. The nine nodes each touching the extreme end, next the mass operated upon, in this arrangement, silver, gold, platina, make up the nine. When I associate the seventh, I start with gold and end with platina, always on the triplets. Silver represents the lowest introductory third, gold the next and platina the highest. If we start with a gold node, the multiplication on oscillation will be nine times nine or 81 times the 20,000 which is 1,620,000 per second. Each node represents one wave length of a certain number of vibrations when shifted along the transmitter, over the section representing its opposite metal. The shifting of the gold one over the silver extreme section will hold the corpuscular range of the mass velocity at 1,620,000 per second, the introductory chord being set at B third octave. It requires an accelerated oscillation on the molecules of a soft steel mass, at that chord, of a transmissive multiplication of the full nine, in order to induce rotary action on the neutral center, indicator of focalizing disk, which, by computation, means, per second, 156,057,552,198,220,000 corpuscular intermittent oscillations to move the disk 110 revolutions per second. This represents the multiplication on the first nodal dissociator of the ninth. The second transition, on the same would mean this number multiplied by itself, and the residue (product) of each multiplication by itself 81 times progressively. This throws us infinitely far beyond computation leaving us only on the second of the full ninth, towards reaching the sympathetic corpuscular velocity attending the high luminiferous. I have induced rotation up to 123 revolutions per second to accomplish, but even this vibration represents only a minute fraction of the conditions governing the sympathetic vitality which exists in the far luminous centers.

The interposition of hydrogen gas between soap films, of the differential diameters of thirds, illuminated by a solar ray in whose focus a quiescent prism is set posteriorly - the prism to be adjusted at the proper distance and angle to throw the seven colors through the film enclosing the hydrogen in a way that will give the bow and arch of three feet - will register deep down, inaudible tones or sounds, and indicate their different conditions by the dissolving and re-dissolving of certain of the colors of such arch. To conduct such experiments properly necessitates, first, a location as nearly isolated from all extraneous audible sounds as is possible to get, and second, a pedestal of the lowest vibrating material, the base of it set deep in the earth, to arrange the instruments upon, and third, a room of the highest resonating qualities to enclose them. Under such conditions the inaudible sounds emanating from the operator, would have to be neutralized by a negative device to get at the proper conditions while under his manipulation. Thus the hidden inaudible world of sounds could be shown up, as the microscope shows up to the eye the hidden invisible forms of nature.

The conditions of the mechanical requirements necessary to conduct successfully the line of research I am now pursuing, will never be properly appreciated until the beauty of this system is shown up under perfect control for

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commercial use.

I have spoken elsewhere of the almost infinite difficulties of getting into position, to hold hydrogen gas in suspension between soap film a proper period of time, to conduct these experiments. The setting of the other parts of the apparatus is quite easy in comparison. All wave propagations, electromagnetic or otherwise by being thus refracted can be measured in regard to the time of their propagation all of which are introductorily subservient to the luminiferous ether. The theory put forward by "men of science" in regard to electromagnetic forces shows that they are misled by the imperfection of their instruments. They are trying to measure the infinite by the finite, necessitating terms of avoidance, to the instantaneous propagation of nature's sympathetic evolutions, of the same nature as the one advanced in the assertion that a force does not exist in the interstitial embrace of all matter.

Maxwell's theory is correct that the plane of polarized light is the plane of magnetic force. The sympathetic vibrations associated with polarized light constitute the pure coincident of the plane of magnetism. Therefore, they both tend to the same path, for both are interatomic, assimilating sympathetically in a given time, to continue the race together, although one precedes the other at the time of experimental evolution. The time is approaching when electromagnetic waves with an outreach of two feet will be produced, having an energy equal to that now shown up on the magnet when it is about to kiss its keeper, and showing a radiating force too stupendous for actual measurement.

I have already shown, to a certain point, the power of this radiation, by breaking a rope that had a resisting strain of over two tons, which was attached to the periphery of a steel disk, twelve inches in diameter, moving at the slow rate of one revolution in two minutes, its molecular structure vitalized with 42,800 vibrations per second. There was no retardation while breaking the rope, and no acceleration when it was broken. This experiment has been repeated scores of times, before scores of visitors.

When the triple introductory impulse is transmitted towards the mass to be sensitized, it subserves the molecular concordant thirds and antagonizes the discordant sixths extending the range of their oscillating paths, and thus induces the highest order of repellant antagonism towards the center of neutral equilibrium.

We will now follow out, in their progressive orders, the conditions necessary to give to these acoustic introductory impulses the power, as transmitted through the proper media, to induce molecular dissociation.

First: If I wish to disturb and bring into action the latent force held in the embrace of any molecular mass, I first find out what the harmonic chord or note of its mass represents, and as no two masses are alike, it would seem to necessitate an infinite number of variations to operate on different masses, but such is not the case. All masses can be subserved to one general condition by the compound mechanical devices which I use for that purpose. We will suppose that the mass to be experimented upon, when chorded, represents B flat. Then, first, the negative radiating focalizing bar on the disk is liberated from its dampening rod, and associated with the magnetic defocalizing one. There are seven ranges of bars in all.

(See symbol representing sympathetic transmissive chord of B flat, third octave on third diatonic.)

The seven assemblings are in this order:

Dominant	Electro-	Diatonic	Harmonic	Negative
3rd	Magnetic	6ths	Enharmonic	7ths
I II III	IIII	IIIII	IIIII	IIIIII

The second step is to liberate, according to symbolic meaning, second harmonic on sixths, or neutralizing one, and third, enharmonic ninths, which is the one counting from negative sevenths. Now all is in readiness for the transmissive nodal wire, one end of which must be attached to the magnetic dispersing ring, over the negative sevenths cluster, and the other end to the high polar negative attractor. Then, one end of a transmitting wire, of very fine proportions of gold, silver and platina, is connected to the resonating sphere, and the other end to the mass to be experimented upon. I then give to the siren a rotatory impulse of a velocity to indicate the concordant mass attached. If the introductory settings are all right, the neutral center indicator will rotate with high velocity, and a single tap on the Chladni wave-plate is all that is necessary to induce pure evolution.

Either attraction or dispersion can be induced on any mass by setting the instrument to the proper triple introductory positions, towards the mass chords it represents, either positive or negative.

This system of evolution might be expressed as disintegration induced by the intensified oscillations of interatomic electromagnetic waves.

How plainly this principle of harmonic sympathetic evolution indicates the structural condition of the atom as one of wonderfully complex form, as also is the progressive step toward it in the molecular and intermolecular field.

During the effect induced by disintegration of molecular mineral masses there is no molecular collision when forced asunder from their radiating centers of neutrality. Their atomic and interatomic centers seek their media of tenuous affinity in the far borders of the etheric field, leaving all metallic masses, that are associated with them, behind in their virgin form. (11)

Professor Fitzgerald's lecture on electromagnetic radiation shows that scientific men are beginning to realize and that fairly, the truths appertaining to the new philosophy. The professor admits that electricity and magnetism are of

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differential character and he is right. The progressive subdivision, induced by molecules by different orders of sympathetic vibration, and the resultant conditions evolved on the intermolecule and interatom, by introductory etheric dispersion, prove that the magnetic flow of itself is a triple one, as is also the electric. Again, the professor says that electricity and magnetism would be essentially interchangeable if such a thing existed as magnetic conduction, adding: "It is in this difference that we must look for the difference between electricity and magnetism." Thus you see how plain it is that progressive scientists are approaching true science. The rotation of the magnetic needle, as produced in my researching experiments, proves conclusively that the interchange spoken of, in Professor Fitzgerald's lecture, is a differentiated vibratory one, in which the dominant and enharmonic forces exchange compliments with each other, in a differential way, thus inducing rotation, in other words polarization and depolarization.

The transmission of sympathetic atomic vibration, through a triple nodal transmitter, induces an interatomic percussion, that results in triple atomic subdivision, not oscillating across the diameter of the atom, but accelerating to an infinite degree the atomic film that surrounds it and at the same time extending the vibratory range of the atom far enough to set free the gaseous atomic element.

Keynote of electromagnetic sympathy, transmissive combinations, thirds, on the subdivision of first octave B flat, diatonic. Sixths, on same subdivision of thirds, octave harmonic, and ninths, on the same subdivision on the sixths, octave enharmonic.

I find that there is no medium in the range of vibratory philosophic research, that is as unerringly exact, towards the center of sympathetic attraction, as the negative attractive influence of a certain triple association of the metallic masses of gold, silver and platina. In fact, they are as accurate indicators of the earth's terrestrial sympathetic envelope, and its triple focalized action towards the earth's neutral center, as the magnet is an indicator of the diversion of the attractive flow of the dominant current of the electric stream. Although much has been written on the subject, the conditions attending the continuous flow of the magnet remains a problem that has never been solved by any other theory. Yet the solution is very simple when harmonic vibratory influence is brought to bear upon it.

The harmonic attractive chord, thirds, induces a nodal interference on that third of the triune combination of the terrestrial envelope, that is immediately associated with this medium of interference, and moves towards the negative pole of the magnet, then flows through it to reassociate with the full triune combination, through the positive, thus:

Dominant  
Harmonic  
Enharmonic

The triune stream, one current of which is diverted from the Dominant, flowing in at the Negative end of the magnet and out to join the triune terrestrial stream at the Positive end.

The continuous flow of the magnet is merely a diversion of that portion of the terrestrial envelope that electricians have never controlled. This third current, of this triune stream, has never been subdivided and only slightly diverted towards the negative pole of the magnet, flowing unbrokenly back to associate sympathetically with the full triune combination of the earth's negative neutral force. (Descartes thought that all magnets are traversed by a subtle fluid out at the North Pole, and curving round, in the ether, reenters at the South Pole, thus completing the circuit). Thus the problem is solved of the continuous and never-ending force of the magnet, in carrying its load without any diminution of its energy. There is no influence, as yet known, that can break up its line of sympathetic flow as associated with the triune combination. Polarization and depolarization, in its action, is nodal negative interference, intermittently excited, inducing differential disturbance of polar sympathetic equilibrium.

The attractive power, evolved by a magnet in sustaining its load, is no evidence that it is molecularly attractive, for under the influence of the dominant current of the electric stream, the range of its molecular mass is not extended, but by the action induced in atomic vibration, the latent, of undisturbed power, that is locked up in its atomic embrace, is put into sympathetic action, and evolves the force that is recognized as magnetic. When its exciter is removed, it returns to atomic recesses to remain perfectly latent, until again brought into action by its proper exciter.

When a steel unmagnetized bar is associated with a magnetized one, the latent force in the unmagnetized one is sympathetically brought into action, associating itself to the magnetic one, without depreciating the power of it one iota. Dissociation and association between the two bars can go on indefinitely with the same result.

The suspension and propelling of an atmospheric navigator of any number of tons weight, can be successfully accomplished by thus exciting the molecular mass of the metal it is constructed of, and the vibratory neutral negative attraction evolved, will bring it into perfect control, commercially, by keeping it in sympathy with the earth's triune polar stream. There is enough of this latent power locked up in the embrace of the iron ore, that is contained in our planet, which, if liberated and applied to proper vibratory machinery, would furnish force enough to run the commercial power of the world, leaving millions of times more to draw upon, as the needs increase. The velocity of the vibration governing the flow of the magnetic stream, comes under the head of the first interatomic, and ranges from 300,000 to 780,000 vibrations per second, the first order above odor permeating the molecules, of the glass plate of the compass (with the same facility that atmospheric air would go through an ordinary sieve through which it passes) to arouse sympathetically in the needle the concordant condition that harmonizes with its own. The course of this sympathetic flow is governed by the full harmonic chord, and consequently moves in straight lines, thus transmitting its sympathy free of molecular interference.

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The order of vibration associated with the transmission of odor acts by sympathetic negative interferences, and consequently, moves in circles, with a velocity of 220,000 per second, at least.

If in any way the circle of its rotary diameter could be reduced to that of the corpuscular structure, then a bottle containing an odorous substance though sealed as hermetically as an Edison light-bulb, could no more confine its corpuscles than an open chimney the smoke ascending from the fire burning at its base.

John E. W. Keely

## APPENDIX III

### Magnetic Flow

by John E. W. Keely

"Magnetism is the mutual attraction of juxtaposed bodies vibrating at unison or harmonic electric pitches." (Keely)

"Magnetic flow is of the inter-atomic order. (Keely and His Discoveries, pg 275.)

"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."

The action of the magnetic flow is dual in its evolution, both attractive and propulsive. The inclination of the plane on which the subtle stream moves, either to the right or left, has nothing to do with positive or negative conditions. The difference in conditions of what is called, by electricians, positive and negative electricity, is the difference between receptive and propulsive vibrations. They can be right or left receptive, or right or left propulsive. The positive vibrations are the radiating, the negative vibrations are the ones that are attracted toward the neutral center.

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.

Like poles do not repel each other, simply because there is a perfect sympathetic equation between them, the same in unlike poles. If a differentiation of  $33 \frac{1}{3}$  against 100 is established between them, whether like or unlike, they become attractive to each other. They become repellent after differentiating them,  $66 \frac{2}{3}$  of the one against 100 of the other, by sympathetic vibration.

Taking into consideration even the introductory conditions of the etheric stage, etheric vibration has proved to me that the higher the velocity of its rotating stream the greater is its tendency towards the neutral center or center of sympathetic coincidence. Were it otherwise, how could there ever be any planetary formations or the building up of visible structures? If a billiard ball were rotated to a certain velocity, it would separate in pieces, and the pieces would fly off in a tangent, but if it were a ball of ether, the higher the velocity of rotation, the stronger would be the tendency of its corpuscles to seek its center of neutrality, and to hold together. (Snell Manuscript)

It is not a magnetic force that is born on the etheric atom which gives it its power to draw to it streams of coincidence. The magnet is only susceptible to certain aggregated forms of matter, iron, for instance, and its preparations.

All moving bodies of visible matter produce heat as according to their velocity. The flow of gases only induces thermal reduction from molecular friction. By this term it must not be understood that the molecules actually come in contact, and rub against each other. There is no pressure, however great, that can cause molecular contact. The area of the volume of the molecule can be reduced by enormous pressure, and the tension thus brought to bear on their rotating envelopes induces heat. The heat thus induced is a positive proof of the wonderful velocity of the etheric envelope. If the molecules were dead - which is an infinite impossibility - to sympathetic vibration, and without a rotatory envelope, if all the pressure possible to conceive were brought to bear upon them, it would not induce the slightest thermal change.

## The Ultimate Constitution Of Matter And The Action Of The Force Regulating Its Phenomena

by John Keely

"**First.** Matter is capable of infinite subdivision.

"**Second.** In the aggregation of matter, force or energy is stored up or conserved.

"**Third.** In the dissociation of matter, force is liberated.

"**Fourth.** All matter is in a state of perpetual activity, whether the substance under consideration be inanimate or animated, visible or invisible.

"**Fifth.** There is no dividing of matter and force into two distinct terms, as they both are ONE. FORCE is liberated matter. Matter is force in bondage.

"**Sixth.** All motion is synchronous; no sound or movement can be made but all that moves or sounds does so in harmony with something.

"**Seventh.** All structures, whether crystalline or homogeneous, have for their unit structures minute bodies called molecules. It is the motion of these molecules with which we have particularly to deal; as in experimental research and demonstration, when we produce an action upon one molecule we do so upon all the molecules constituting the mass operated upon.

"**Eighth.** These molecules have an envelope, rotating with inconceivable rapidity, formed of a high tenuous *ether*, whose place in the order of subdivision ranks third, the three divisions being,--first, molecular; second, atomic; third, atomolic. (For convenience' sake we will use the term *atomolic* in place of *etheric* in our subsequent definitions.)

"**Ninth.** This atomolic substance has a density approximately 986,000 times that of steel, enabling it to permeate steel as light penetrates glass; this rotating envelope of atomolic substance is in a *liquid* condition. There are four conditions of matter; viz. *solid*, *liquid*, *gaseous*, and *ultra-gaseous*. These conditions result from greater or lesser range of oscillation of the composing units individually: this is equally true, whether the units are molecules, atoms, atomoles, planets, or suns. *But one LAW governs all matter.*

"**Tenth.** This molecular envelope, rotating with such great velocity, holds in its embrace the next subdivision of matter, the atomic. There cannot ever be more or less than three atoms in any molecule. These are placed so as to form a triangle in the interior; they rest in a condition of substance, or matter, we will term inter-molecular. In this inter-molecular substance we find an enormous energy or force in bondage, held thus by the rotating envelope enclosing it. Were we to rotate a spun brass shell, say nine inches in diameter, at a very much less rate of speed than that at which the molecular envelope rotates,--say nine hundred revolutions per second,---its equator would first bulge out, then form into an oval disc. A solid block of wood subject to such revolution would swiftly fly to pieces. The rotating envelope of a molecule, unlike these, the greater its velocity of rotation, the greater is its compression toward the centre of the molecule. The rotation of this envelope is of such a nature as to produce an internal pressure upon every portion from every point of the molecule as a sphere. Were we to consider a rotating envelope as ordinarily understood, it would be one in which the envelope rotated around an equator having poles of no rotation; i. e. the poles would not possess the compressing force of the equator: the result would therefore be a compressed equator, and the intermolecular substance would pass out

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without resistance at the poles.

**"Eleventh.** If it be possible let us conceive an envelope with an equator, but destitute of poles, a number of these rotating over the sphere, this atomolic envelope possessing an almost infinite attractive force toward the centre of the molecule, pressing in the inter-molecular substance, where it is held until this revolving envelope becomes negatized by a certain order of vibration, when the enclosed matter rushes out to its natural condition of concordant tenuity, as in the case of gunpowder, dynamite, and nitro-glycerine. This force, we must see, has been held in the embrace of the rotating envelopes of the unit-structures, or where does it come from? This force at the time of an explosion was liberated by shock or fire, both being orders of imparted motion or vibration. How much greater the result would be were we to associate a scientific instrument now completed, and shortly to be given to the world, with such an agent as nitro-glycerine; one pound of nitro-glycerine would have its destructive force augmented beyond all possible control. These instruments are carefully concealed by wise masters from all persons save the few who are already prepared to study their potency with the exclusive end in view of aiding the real scientific progress of humanity; and, furthermore, it may be truly stated that a ferocious sensualist, however powerful his intellect, would be utterly unable to either comprehend or operate one of these marvelous constructions.

**"Twelfth.** Next in order of consideration is the second subdivision of matter-the atomic. The atom has the same rotating envelope as the molecule, governed by the same laws of rotation and compression. The rotating envelope holds in its embrace the interatomic substance and three atomoles resting in it, the atomoles within the atom being constructed after the same pattern as the atom and the molecule, obedient to the same laws; the atomic being simply the third subdivision of matter. The threefold order is absolutely universal.

**"Thirteenth.** The atomolic substance is what is termed the ether which fills all space and is the transmitting medium for all celestial and terrestrial forces. This is the *liquid ether* of occult science.

**"Fourteenth.** The atomoles are made up of *atomolini* (singular *atomolinus*); the subdivision of matter from this point is beyond man's power, as at this point it escapes all control of apparatus, passing through glass and hardened steel as a luminous flame without heat, which is hardly seen before it vanishes, a perpetual flame coldly luminous.

**"Fifteenth.** This again, from previous analysis, is made up according to the triple order, and may again be subject to subdivision, even to infinity."

"In my next interview with you," said Aldebaran to his visitor, "I shall endeavor to show you the law governing the triple aggregation of force and matter, which is, in brief, as follows: first, CREATIVE SOURCE; second, TRANSMISSIVE WAVE; third, EFFECT."



# THE BASIS OF A NEW SCIENCE.

by John Keely

"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 W. Keely

## DEFINITIONS.

**ATOMOLES** are elementary units of matter uniform in size and weight, and exist in solid, liquid, gaseous, and isolated forms. [Note: In modern parlance an atomole would correspond to the electron, proton and neutron.]

**ATOMS** are multiple combinations of atomoles, and they also exist in solid, liquid, gaseous, and isolated forms.

**SIMPLE MOLECULES** are formed by the union of two atoms of the same kind.

**COMPOUND MOLECULES** are unions of two atoms of dissimilar kind.

**COMPLEX MOLECULES** are unions of molecules with other molecules or atoms.

**PITCH** is the relative frequency of vibration.

**VIBRATION** is the rhythmical motion of a body within itself.

**OSCILLATION** is a rhythmically recurring translatory movement.

**TRANSMISSIVE ENERGY** is rhythmical motion of condensation and rarefaction produced by the vibrating or oscillating body in the medium in which it is immersed.

**ATTRACTION** is the mutual approach of aggregates caused by concentrated waves of harmonic energy, tending to move in line of least resistance, by becoming the centre of one series of concentric waves instead of two or more series.

**HARMONY** is the simultaneous vibration of two or more bodies whose harmonics do not produce discords, and whose fundamental pitches are harmonics of the lowest pitch, or are a unison with the resultant notes or overtones, or undertones, of any two or more of them.

**ETHER** is an atomic liquid 986,000 times the density of steel.

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**ELECTRICITY** is the oscillation of the atomoles of an atom.

**INDUCTION** is the transmissive force of the electric vibration in ether.

**MAGNETISM** is the mutual attraction of juxtaposed bodies vibrating at unison or harmonic electric pitches.

**GRAVITY** is the mutual attraction of atomoles.

**GRAVISM** is the transmissive form through a medium of atomoles in the fourth state, or a medium composed of atomolini.

**ATOMOLINI** are ultimate units of atomoles, and when in a liquid state are the media for the transmission of gravism. The illimitable divisibility and aggregation of matter is a logical sequence.

# The 40 Laws of Harmony

## 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.

## 3. LAW OF CORPOREAL OSCILLATION:

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.

## 4. LAW OF HARMONIC VIBRATIONS:

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 atomole.

## 5. LAW OF TRANSMISSIVE VIBRAIC 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.

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### 6. LAW OF SYMPATHETIC OSCILLATION:

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.

### 8. LAW OF REPULSION:

Juxtaposed coherent aggregates vibrating in discord are mutually repelled.

### 9. LAW OF CYCLES:

Coherent aggregates harmonically united constitute centres 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.

### 10. LAW OF HARMONIC PITCH:

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.

### 11. LAW OF FORCE:

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.

### 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.

### 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 42d 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.

### 14. LAW OF OSCILLATING ATOMS:

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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, chemical rays, actinic rays, and infra-violet rays, up to the dissociation of all molecules to the 63d octave.

### 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 inductions and the static effect of magnetism upon other atoms of attraction or repulsion, according to the Law of Harmonic Attraction and Repulsion.

Scholium: The phenomena 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 centres, concentric waves of electric energy which produces heat and gravism.

### 16. LAW OF OSCILLATING ATOMOLES:

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*.

### 17. LAW OF TRANSFORMATION OF FORCES:

All forces are different forms of *Universal Energy* unlike in their period-frequency into each other by imperceptible increments; each form representing the compass of 21 octaves. Each form of 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 and 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.

### 18. LAW OF ATOMIC PITCH:

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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.

### 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.

### 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.

### 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.

### 23. LAW OF VARIATION OF PITCH OF ATOMIC OSCILLATION BY PRESSURE:

The frequency of atomic oscillation increases and diminished inversely as the square of the pressure.

### 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 diminished in the same ratio. Heat increases the amplitude of the oscillations in a direct ratio to the temperature of the natural scale.

Scholium: New thermometers and accurate thermometric tables, on the natural bases, 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,

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chemical affinities, fusions, solubilities, etc., and will disclose new laws. One table for each must be constructed.

### 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.

### 26. LAW OF VARIATION OF ATOMIC OSCILLATION BY SONO-THERMISM:

Diminishes the tension directly as the quantity of heat developed, and in antithetical proportion to the harmonics absolved.

### 27. LAW OF CHEMICAL AFFINITY:

Atoms whose atomic pitches are in either unison, harmonic or concordant ratios, unite to form molecules.

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 concords, 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.

### 29. LAW OF CHEMICAL TRANSPOSITION:

New molecules must be harmonics of the fundamental pitch.

### 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.

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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 vibration-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 atomic molecules of the atoms.

### 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.

### 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.

### 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 diminished 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 transmission 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 recipro-

## APPENDIX V

cal of the local magnetic intensity.

As we believe the above statements to be of priceless value to the world, in proportion as they are comprehended, we offer no apology to our readers for introducing so many technicalities, but publish them in the expectant hope that some struggling seeker after scientific verity may find in them a key to the solution of many perplexing mysteries.



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